

# Matthew B. Pontifex

## Curriculum Vitae

Updated February 07, 2025

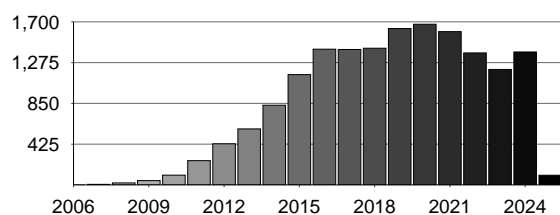
### Area of Expertise

**Research:** My research is in the area of Health Neuroscience, focusing on the relation between health-oriented behaviors and the modulation of neural networks underlying aspects of higher-order cognitive function. A key area of this work is on the application of these behaviors as a means for improving cognitive health, academic performance, and effective functioning in typically developing populations as well as within individuals suffering from cognitive and attentional disorders.

**Teaching:** My teaching capitalizes on broad expertise spanning physiological and psychological domains to strengthen student's knowledge of Kinesiology. A key emphasis is in establishing a relationship between basic theories/principles within the field and the application of those concepts to contemporary and historical issues in society.

### Scholarly Highlights

Citations Per Year



Publication Metrics

**Total Publications:**  
108

**Total Citations:**  
17,057

**First/Senior Author:**  
47

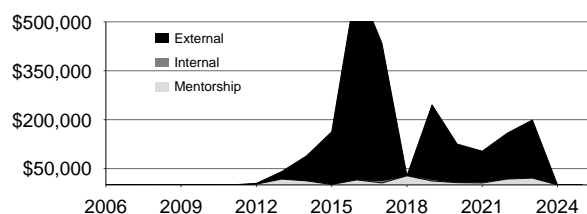
**Mean Impact  
Factor [last 6 years]:**  
3.19

### Recent Invited Lectures and Symposia

- Keynote Address: Physical activity and brain health. Damien Moore Memorial Lecture sponsored by the Department of Health, Exercise Science, and Recreation Management. The University of Mississippi. Oxford, MS.

### Funding Highlights

Grant Funding Expended Per Year



### External Funding

**External Grants Funded:**  
10

**External Funding Awarded:**  
\$2,173,007 TDIC

**Awarded as PI/Co-PI:**  
9

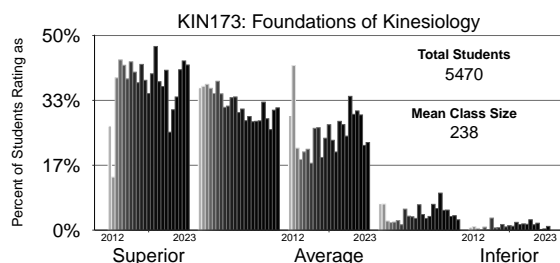
**External Funding Pursued:**  
\$17,951,209 TDIC

### Recently Completed External Grants

- Board of Medicine (PI)
- US Army SOC (PI)
- GoogleX (PI)
- NICHD (PI)

### Teaching Highlights

#### Overall Teaching Ratings by Semester



### Supervision of Undergraduate Research

**Number of Current Students:**  
8

**Total Students:**  
93

### Service Highlights

#### Recent Journals Reviewed for

- Psychophysiology (*member of the editorial board*)
- International Journal of Psychophysiology
- Medicine & Science in Sport and Exercise

#### Recent Service

- Interim Faculty Excellence Advocate, College of Education
- Chairperson, College Faculty Advisory Committee
- Kinesiology Undergraduate Program Director

#### Professional Affiliations

- American College of Sports Medicine
- Society for Psychophysiological Research

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## Work Address

126E IM Sports Circle  
308 W. Circle Drive  
Department of Kinesiology  
College of Education  
Michigan State University  
East Lansing, MI 48824-1049

*Phone:* (517) 432-5105  
*Fax:* (517) 353-2944  
*Email:* [pontifex@msu.edu](mailto:pontifex@msu.edu)  
*Website:* <http://education.msu.edu/kin/hbcl/>  
<https://github.com/mattpontifex>

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## Education

December 2011



### **Doctor of Philosophy in Kinesiology**

Department of Kinesiology and Community Health  
College of Applied Health Sciences  
University of Illinois at Urbana-Champaign  
Dissertation: *Transient modulations of inhibitory control in children with ADHD: The effect of a single bout of physical activity.*  
Doctoral Adviser: Charles H. Hillman, Ph.D. ([link to academic genealogy](#))

May 2006



### **Bachelor of Science in Kinesiology**

Department of Kinesiology and Community Health  
College of Applied Health Sciences  
University of Illinois at Urbana-Champaign  
Honors thesis: *Neuroelectric and behavioral indices of interference control during acute cycling.*

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## Professional Experience

2023 – Present,

2018 – 2023,

2012 – 2018



**Professor**, Departments of Kinesiology and Psychology

**Associate Professor**

**Assistant Professor**

Cognitive Science Program Faculty

Neuroscience Program Faculty

Michigan State University, East Lansing, MI

2006 – 2011

**Graduate Research Assistant**, Neurocognitive Kinesiology Laboratory

University of Illinois, Urbana-Champaign, IL

Lab Director: Charles H. Hillman.

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## Service

Editorial Boards:

2020 – Present

**Consulting Editor**, Psychophysiology

Member of the editorial board that works directly with the Editor-in-Chief and Associate Editors in reviewing manuscripts for publication that fall within my area of expertise.

2019 – 2021

**Guest Editor**, International Journal of Psychophysiology

Special Issue on Exercise Psychophysiology with Dr. Brandon Alderman, Ph.D.

Solicited the submission of potential articles for a special issue on Exercise Psychophysiology from a conceptual and geographically diverse representation of research areas. Subsequently served as the action editor for the peer-review process of those articles.

## Ad-Hoc Journal Reviewer:

**Impact Factors**   **Journal Titles**

|            |   |
|------------|---|
| > 5.0      | Cerebral Cortex, NeuroImage, Pediatrics, Proceedings of the National Academy of Sciences of the United States of America, Proceedings of the Royal Society B: Biological Sciences     |
| 3.5 to 5.0 | Developmental Review, Frontiers in Human Neuroscience, Hippocampus, Medicine and Science in Sports and Exercise, Neuropsychologia, Psychology of Sport and Exercise, Psychophysiology |
| 1.7 to 3.5 | Brain and Cognition, International Journal of Psychophysiology, Journal Neuroscience Methods, Journal of Sport and Exercise Psychology, Neuropsychology                               |
| < 1.7      | Applied Sciences, Journal of Sport Sciences, Perceptual and Motor Skills  |

## Ad-Hoc Grant Reviewer:

|                      |  |
|----------------------|--|
| 2024                 | <b>Reviewer</b> , Special Emphasis Panel/Scientific Review Group<br>ZNS1 SRB-G 64 Clinical Trials and Comparative Effectiveness Studies in Neurology<br>NIH Center for Scientific Review, Clinical Care and Health Interventions,<br>Served as a reviewer for a NINDS special emphasis panel which reviews applications focusing on clinical trials and comparative effectiveness studies in neurology.  |
| 2022 – 2024          | <b>Reviewer</b> , Lifestyle Change and Behavioral Health (LCBH) Study Section<br>NIH Center for Scientific Review, Clinical Care and Health Interventions,<br>Served as a reviewer for the Lifestyle Change and Behavioral Health (LCBH) Study Section which reviews applications focusing on the adoption or uptake of health promoting behaviors or lifestyle changes to reduce health risks or to recover from diseases, conditions, or treatments at the individual or small group level. Applications typically use psychosocial and behavioral methods designed to improve well-being, delay disease onset, or to maintain recovery from diseases across the human lifespan. |
| 2016 – 2023,<br>2014 | <b>Reviewer</b> , Loan Repayment Program (LRP)<br>National Institute of Child Health and Human Development (NICHD)<br>Served as a reviewer for the NIH Loan Repayment Program (LRP) for applications submitted to the National Institute of Child Health and Human Development (NICHD). This program aims to recruit and retain highly qualified individuals in biomedical and biobehavioral research careers by repaying a portion of the researcher's qualified educational debt in return for a commitment to engage in NIH mission-relevant research. LRP awards are based on an applicant's potential to build and sustain a research career.                                 |
| 2022                 | <b>Reviewer</b> , Perception, Action, and Cognition Program<br>National Science Foundation,<br>Served as a reviewer for the Perception, Action, and Cognition Program which supports empirically grounded, theoretically engaged and methodologically sophisticated research in a wide range of topic areas related to human perceptual, motor, and cognitive processes and their interactions.  |
| 2018                 | <b>Reviewer</b> , Belgian Public Research Programme  |
| 2013                 | <b>Reviewer</b> , Austrian Science Fund  |
| 2012                 | <b>Reviewer</b> , Ireland Health Research Board  |

## Professional Services:

- 2019 – 2024      **Member**, Exercise, Brain, and Cardiovascular Health (eBACH) Data Safety Monitoring Board  
NIH, National Heart, Lung, and Blood Institute (NHLBI) P01HL040962  
Principal Investigator: Kirk I Erickson, University of Pittsburgh  
ClinicalTrials.gov Identifier: NCT03841669
- 2017 – 2018      **Member**, Consensus Panel on Children's Physical Activity and Brain Health  
ParticipACTION Report Card on Physical Activity for Children and Youth  
Served as an expert on the relationship between physical activity and cognition for a working group evaluating evidence and establishing recommendations for the 2018 Canadian Physical Activity Report Card.
- 2017 – 2018      **Member**, Program Committee  
North American Society for the Psychology of Sport and Physical Activity
- 2015 – 2016      **Member**, Program Committee  
Society for Psychophysiological Research

## Administrative Services to the University:

- 2016 – 2018,  
2013 – 2015      **Vice-Chairperson**, University Committee on Undergraduate Education,
- 2012 – 2018      **College of Education Representative**  
Michigan State University  
Served four of my six years on the University Committee on Undergraduate Education as the Vice-Chairperson. This committee exercises the faculty's delegated authority on grading and grade-related admissions policies for undergraduate students and serves in a consultative capacity to the Provost to ensure that changes in undergraduate programs appropriately follow university policy. As such, all program level changes and proposals at the undergraduate level are reviewed by this committee.
- 2015 – 2016      **Chairperson**, Subcommittee for the Formation of the Search Committee for the Associate Provost for Undergraduate Education and Dean of Undergraduate Studies,  
University Committee on Undergraduate Education,  
Michigan State University  
As a representative of the University Committee on Undergraduate Education, I served as the Chairperson of the Subcommittee for the Formation of the Search Committee for the Associate Provost for Undergraduate Education and Dean of Undergraduate Studies. In this capacity, I facilitated the writing of the job requirements for the position and the identification of the constituents that would need to be represented on the search committee for the position.
- 2014 – 2015      **Co-Chairperson**, Grief Absence Policy University Taskforce,
- 2012 – 2014      **Member**, Subcommittee for the Grief Absence Policy,  
University Committee on Undergraduate Education,  
Michigan State University  
As a representative of the University Committee on Undergraduate Education, I served as the Co-Chairperson for the Grief Absence Policy University Taskforce which assessed the need and feasibility of implementing university level policies providing students with protected bereavement time. In this capacity, I co-authored the Grief Absence Policy and successfully navigated the policy through academic governance which provided a streamlined centralized reporting and tracking approach for graduate and undergraduate students to obtain protected bereavement time. The policy was formally adopted effective Fall 2015.

Administrative Services to the College:

|                |   |
|----------------|---|
| 2023 - 2024    | <p><b>Interim Faculty Excellence Advocate</b><br/>College of Education,<br/>Michigan State University</p> <p>The primary responsibility of the Faculty Excellence Advocate include the review and guidance of faculty search processes and procedures; serving as a resource for faculty in the college regarding mentoring, annual review, and promotion/tenure; review and guidance regarding faculty career development opportunities, provision of a confidential means of sharing concerns and suggestions for a quality work environment with college leadership, and promotion of faculty retention efforts.</p>   |
| 2023 - Present | <p><b>Chairperson</b>, College Faculty Advisory Committee,</p>  |
| 2018 – 2020    |   |
| 2022 - 2023    | <p><b>Member</b><br/>College of Education,<br/>Michigan State University</p> <p>As a representative of the Department of Kinesiology, I served as the Chairperson of the College of Education Faculty Advisory Committee for two years. This committee serves in an advisory capacity to the Dean of the College of Education. Within this committee, I co-wrote revisions to the college bylaws granting voice and vote to fixed-term faculty and academic specialists in the continuing appointment system within the college. I further stewarded multiple bylaw proposals through academic governance and two faculty votes where they were formally adopted as policy. In my position as chair of the Faculty Advisory Committee I also took a proactive approach to addressing faculty issues within the college regarding salary and grant-related policies. In particular, I was able to obtain evidence demonstrating salary discrepancies at particular levels and units within the college relative to internal units and peer institutions.</p> |
| 2023           | <p><b>Chairperson</b>, College of Education Associate Dean for Research Search Committee,<br/>College of Education,<br/>Michigan State University</p> <p>I served as chairperson of the committee to recruit and evaluate prospective candidates to fill the role of College of Education Associate Dean for Research.</p>  |
| 2021 – 2022    | <p><b>Member</b>, College Reappointment, Promotion, and Tenure Committee,<br/>College of Education,<br/>Michigan State University</p> <p>As an associate professor, I served on the College Reappointment, Promotion, and Tenure (RPT) committee with 7 full professors (2 representatives from each of the 4 departments) which advises the Dean regarding RPT procedures and makes recommendations for decisions. In this capacity, I proposed and participated in drafting of a College guidance document regarding external evaluator letters focused on providing greater clarity for reducing conflicts of interest, the process of soliciting external evaluators, and provision of specific queries for external evaluators to address in their letters.</p>  |
| 2019 – 2020    | <p><b>Chairperson</b>, Research Integrity Investigative Committee,<br/>College of Education,<br/>Michigan State University</p> <p>As a representative of the College of Education, I served as the Chairperson for a Research Integrity Investigative Committee which investigated and made a determination on an allegation of Misconduct.</p>   |

|             |   |
|-------------|---|
| 2014 – 2016 | <b>Department of Kinesiology Representative</b> , College Curriculum Committee,   |
| 2014 – 2015 | <b>Chairperson</b><br>College of Education,<br>Michigan State University<br>As a representative of the Department of Kinesiology, I served as the Chairperson for the College of Education Curriculum Committee for one of my two years on the committee. The College Curriculum Committee exercises the faculty's delegated authority on curricular changes to academic programs within the College and is responsible for reviewing any proposed changes to academic programs in the College. |
| 2013        | <b>Member</b> , Undergraduate Scholarship Review Committee,<br>College of Education,<br>Michigan State University   |
| 2012, 2014  | <b>Reviewer</b> , Summer Renewable Research Fellowship,<br>College of Education,<br>Michigan State University   |
| 2005 – 2006 | <b>President</b> , Applied Health Sciences Student Council,<br>College of Applied Health Sciences,<br>University of Illinois at Urbana-Champaign  |

Administrative Services to the Department:

|                |  |
|----------------|--|
| 2021 – Present | <b>Undergraduate Program Director</b><br>Department of Kinesiology,<br>Michigan State University<br>I oversee the Department of Kinesiology Undergraduate program which administers the Bachelor of Science degree in Kinesiology – one of the top 5 most popular majors on campus serving over 1,400 students and 800 minors in (a) Health Promotion and (b) Coaching. Among my responsibilities, I act as the advocate for undergraduate Kinesiology students in academic judicial procedures and matters; address concerns relative to the undergraduate program; advise the Kinesiology Honor society and the pre-professional Kinesiology fraternity; and oversee Kinesiology undergraduate scholarships and awards. During the 2022-2023 academic year, I served as the architect of broadscale curricular revisions to the Kinesiology Undergraduate Major which re-envisioned how 32 of the 55 credit hours specifically required for the major were utilized to address issues identified in the Undergraduate Program Review and better serve the needs of the students. |
| 2023           | <b>Member</b> , Post Award Research Administrator Search Committee,<br>Department of Kinesiology,<br>Michigan State University<br>I served as a member of the committee to evaluate prospective candidates to fill the role of Post Award Research Administrator for the Department of Kinesiology.  |
| 2021 – 2022    | <b>Co-Chairperson</b> , Department Chairperson Search Committee,<br>Department of Kinesiology,<br>Michigan State University<br>I served as co-chairperson with Tracey Covassin, Ph.D. on the committee to recruit and evaluate prospective candidates to fill the role of Department of Kinesiology Chairperson.   |

- 2021 – 2022  
2020 – 2021
- Chairperson**, Department Faculty Advisory Committee,  
**Member**  
Department of Kinesiology,  
Michigan State University
- As a member of the Faculty Advisory Committee, I worked on the departmental reflection and planning process to provide insight to the Office of the Dean on the primary mission of our unit and how our unit evaluates itself. This process also sought to identify challenges and opportunities for future departmental directions. The Faculty Advisory Committee also oversaw aspects of the Academic Program Review, which occurs every 5 years to evaluate the unit's progress towards its broader academic goals and refines the goals for the next 5 years. As chairperson of the Faculty Advisory Committee, I oversaw the revision of departmental bylaws.
- 2021 – Present  
2012 – 2014
- Chairperson**, Department Curriculum and Undergraduate Studies Committee,  
**Member**  
Department of Kinesiology,  
Michigan State University
- As the Undergraduate Program Coordinator, I serve as the Chairperson for the Department of Kinesiology Curriculum and Undergraduate Studies Committee. The Department of Kinesiology Curriculum and Undergraduate Studies Committee exercises the faculty's delegated authority on curricular changes to academic programs within the Department and is responsible for reviewing any proposed changes to academic programs in the Department. The Department of Kinesiology Curriculum and Undergraduate Studies Committee also oversees the design, evaluation, and administration of the undergraduate programs in the Department.
- 2017 – 2018  
2014 – 2015  
2013 – 2014  
2012 – 2013
- Chairperson**, Tenure-line Faculty Search Committee,  
**Member**  
Department of Kinesiology,  
Michigan State University
- I have served on four search committees, including serving as the Chairperson for one committee, seeking to fill tenure-line positions at the assistant-associate professor level. These faculty searches each targeted different cognate areas of the department (athletic training, exercise physiology, and cognitive motor neuroscience) and all were successful in securing new departmental hires. While serving as Chairperson of the search committee, I facilitated the formation of templated documents and reports to streamline future search processes. To date, each of these faculty hires has successfully tenured at Michigan State University when eligible to do so.
- 2017 – 2019
- Member**, Department Graduate Studies Committee,  
Department of Kinesiology,  
Michigan State University
- As a member of the Graduate Studies Committee, I worked to revise the departmental comprehensive exam policy to provide students and faculty with greater flexibility in tailoring exams while still ensuring an equitable and rigorous evaluation of knowledge.
- 2016 – 2017  
2015 – 2016
- Chairperson**, Department Personnel Committee,  
**Member**  
Department of Kinesiology,  
Michigan State University
- The Personnel Committee is responsible for conducting annual reviews of tenure-line faculty and providing summaries of our evaluations as well as recommendations for improvement to the Department Chairperson.

Funding

Total External Funding Pursued: \$17,951,209 TDIC (allocated to MSU); Total External Funding Awarded: \$2,173,007 TDIC

Funded External Grants:

10.

Co-Investigator

(S. Baez, Principal Investigator), NIH, National Institute of Arthritis and Musculoskeletal and Skin Diseases (K-23): “Virtual Reality Mindfulness Meditation in Patients after Anterior Cruciate Ligament Reconstruction,” \$650,000 TDIC (funded, May 2021).

Mentored Patient-Oriented Research Career Development award for an aspiring independent clinician scientist to enhance skills related to neuroimaging techniques, complex movement pattern data collection, and analyses. With this training, the primary investigator will examine the efficacy of virtual reality mindfulness meditation to mitigate injury-related fear, decrease ACL reinjury risk, and improve quality of life in patients after ACLR throughout her career as a clinician scientist.

☐ Formulated Concept

☐ Aims

☐ Research Plan

☐ Budget

☒ Supporting Documents
9.

Principal Investigator

, Board of Medicine, “Double-blind randomized placebo-controlled trial of the efficacy of the Apollo System for children with ADHD,” \$275,000 TDIC (funded, May 2021).

The major goal of this project was to assess the efficacy of the Apollo System for reducing behavioral and cognitive symptomatology associated with ADHD.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents
8.

Principal Investigator

, US Army Special Operations Command: “Neurocognitive assessment of the readiness of elite operators,” \$29,990 TDIC (funded, May 2021).

The major goal of this project was to demonstrate the utility of neurocognitive and psychophysiological assessments for monitoring the readiness and recovery of elite operators.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents
7.

Principal Investigator

, GoogleX: “Neural activity and emotion processing,” \$431,140 TDIC (funded, December 2018 to August 2020). Co-investigator: J. Carlson.

The major goal of this project was to examine health related factors which modulate neural biomarkers of disordered emotion processing to develop predictive algorithms and hardware for identifying individuals in need of clinical assistance.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

Tenured at Michigan State University — Spring 2018

6.

Co-Principal Investigator

(T. Covassin, Co-Principal Investigator [Lead]), BrainScope Co Inc.: “Validation of brain function assessment algorithm for mTBI from injury to rehabilitation in college athletes,” \$158,978 TDIC (funded, January 2017 to December 2017).

The major goal of this project was to validate a brain function assessment algorithm to facilitate concussion diagnosis and recovery following injury.

☒ Budget

☒ Supporting Documents
5.

Co-Principal Investigator

(T. Covassin, Co-Principal Investigator [Lead]), BrainScope Co Inc.: “Objective brain function assessment of mTBI from initial injury to rehabilitation and treatment optimization in collegiate athletes,” \$285,440 TDIC (funded, March 2016).

The major goal of this project was to validate an experimental EEG headset to facilitate concussion diagnosis in collegiate athletes.

☒ Budget

☒ Supporting Documents



4.

Co-Principal Investigator

(T. Covassin, Co-Principal Investigator [Lead]), BrainScope Co Inc.: “Objective brain function assessment of mTBI from initial injury to rehabilitation and treatment optimization in high school athletes,” \$370,259 TDIC (funded, January 2016 to May 2017).

The major goal of this project was to validate an experimental EEG headset to facilitate concussion diagnosis in high school athletes.

[X] Budget

[X] Supporting Documents
3.

Principal Investigator

, NIH, National Institute of Child Health and Human Development (R-21): “Physical-activity induced transient changes in hemodynamics (PITCH),” 1R21HD078566-01, \$419,926 TDIC (funded, April 2014). Co-investigators: M. Voss, J. Fine, D. Zhu.

The major goals of this project were to provide an empirical basis for two hypothesized neurobiological mechanisms – resting-state cerebral blood flow and functional neural connectivity – proposed to underlie the beneficial effects of single-bouts of physical activity on inhibitory control during preadolescence.

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents
2.

Subcontract Principal Investigator

(C. Hillman, Principal Investigator), NIKE, Inc.: “The transient effects of single bouts of exercise on cognitive and brain health, and scholastic achievement in preadolescent children,” \$175,170 TDIC; MSU component \$68,641 TDIC (funded, August 2013).

The major goals of this project were to investigate whether different types of exercise (cardiorespiratory, strength, coordinative) generally improve cognition and achievement, or whether the transient benefits are selective to cardiorespiratory forms of exercise in typically developing children and children with attention-deficit/hyperactivity disorder.

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents
1.

Co-Writer

, Michigan State University Federal Credit Union, MSUFCU Dean’s Choice Grant: “MSUFCU’s Investment in Education and Physical Health Competition,” \$2,500 (funded, Fall 2012). Co-Writer: G. Harnick.

Unfunded External Grants:

19.

Site Principal Investigator

(L. Raine, Principal Investigator), VoxNeuro Inc.: “The influences of lifestyle behaviors and risk factors on brain health.”, \$1,350,000 TDIC; MSU component: \$454,038 TDIC (not funded, July, 2024). Co-investigators: S. Arent (Site PI), R. D. Moore.

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents
18.

Principal Investigator

, NIH, National Institute of Mental Health (R-01): “Determination of the influence of sleep on the relationship between aerobic fitness and memory (DREAM),” \$3,263,873 TDIC (not funded, October 2021). Co-investigators: K. Fenn, K. Pfeiffer.

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents
17.

Co-Investigator

(J. Fenton, Principal Investigator), USAID Feed the Future Innovation Lab for Fish: “Enhancing nutritional outcomes for children through the promotion of the aquaculture value chain,” \$450,000 TDIC (not funded, July 2019).

[ ] Formulated Concept

[ ] Aims

[X] Research Plan

[ ] Budget

[ ] Supporting Documents
16.

Co-Investigator

(J. Fenton, Principal Investigator), American Pecan Council: “Effects of pecan consumption on vascular function, cardiometabolic biomarkers and cognition in adults with stage I hypertension,” \$450,000 TDIC (not funded, June 2019).

[ ] Formulated Concept

[ ] Aims

[X] Research Plan

[ ] Budget

[ ] Supporting Documents
15.

Co-Investigator

(J. Brascamp, Principal Investigator), NIH, National Institute of Mental Health (R-01): “Percept choice: Decision making in the visual system,” \$1,839,070 TDIC (not funded, October 2018).

[ ] Formulated Concept

[ ] Aims

[X] Research Plan

[ ] Budget

[ ] Supporting Documents

14.

**Co-Investigator** (J. Brascamp, Principal Investigator), NSF, National Science Foundation (CAREER): “Percept choice: Decision making in the visual system,” \$607,558 TDIC (not funded, July 2018).

☐ Formulated Concept

☐ Aims

☒ Research Plan

☐ Budget

☐ Supporting Documents
- Tenured at Michigan State University — Spring 2018

13.

**Principal Investigator**, NIH, National Institute of Child Health and Human Development (R-01): “Physical-activity Induced Changes in activity in the Locus-coeruleus (PICL),” 2nd Submission: \$1,716,311 TDIC (scored 31st percentile, not funded, August 2017). Co-investigators: J. Brascamp, D. Ferguson.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

12.

**Principal Investigator**, NIH, National Institute of Child Health and Human Development (R-01): “Physical-activity Induced Changes in activity in the Locus-coeruleus (PICL),” 1st Submission: \$1,291,588 TDIC (not funded, February 2017). Co-investigator: J. Brascamp.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

11.

**Co-Investigator** (K. Pfeiffer and G. Bullock, Co-Principal Investigators), NIH, National Center for Complementary and Integrative Health (R-34): “Assessing feasibility of a mindfulness intervention for high-risk preschoolers,” \$694,987 TDIC (not funded, February 2017).

☐ Formulated Concept

☒ Aims

☒ Research Plan

☐ Budget

☐ Supporting Documents

10.

**Co-Investigator** (A. Smith, Principal Investigator), NIH, National Institute of Mental Health (R-01): “A multi-level intervention for aerobic activity and ADHD-risk in 1st-3rd graders.” \$3,823,240 TDIC; MSU component: \$1,796,105 TDIC (not funded, November, 2016).

☐ Formulated Concept

☒ Aims

☒ Research Plan

☐ Budget

☒ Supporting Documents

9.

**Principal Investigator**, LuMind Research: “Physical activity as a tool to reduce Down syndrome related cognitive impairments,” \$198,000 TDIC (not funded, June 2016). Co-investigators: J. Hauck, K. Gwizdala.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

8.

**Principal Investigator**, SFARI, Simons Foundation Autism Research Initiative: “Physical-activity as a tool in the treatment of ASD related psychopathology,” \$650,000 TDIC (letter of intent not selected for further consideration, October 2015). Co-investigator: B. Ingersoll, J. Hauck.

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

7.

**Co-Investigator** (A. Maerlander and D. Molfese, Co-Principal Investigators; T. Covassin, Subcontract Principal Investigator), NIH, National Institute of Health: “Biomarkers and recovery from sports-related concussions: A multi-modal, multi-site study.” 1R01HD082400-01, \$5,399,684 TDIC; MSU component: \$449,110 TDIC (not funded, July, 2015).

☐ Formulated Concept

☐ Aims

☐ Research Plan

☐ Budget

☒ Supporting Documents

6.

**Co-Investigator** (B. Hoza, Principal Investigator), IES, Institute of Education Sciences: “Does a before school physical activity program enhance student outcomes?” \$1,239,683 TDIC (not funded, August 2014).

☐ Formulated Concept

☐ Aims

☒ Research Plan

☐ Budget

☒ Supporting Documents

5.

**Co-Principal Investigator** (T. Covassin, Co-Principal Investigator [Lead]), NFL – GE Brain Challenge: “Feasibility of virtual reality and neurocognitive tests in acutely identifying concussions and assist with return-to-play decisions in High-School athletes.” (not funded, July 2013).

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

4.

**Co-Investigator** (J. Moser, Principal Investigator), NIH, National Institute of Mental Health (R-21): “Cognitive control in worry: Neural markers and the role of working memory,” \$405,806 TDIC (not funded, February 2012).

☒ Formulated Concept

☒ Aims

☒ Research Plan

☒ Budget

☒ Supporting Documents

Started at Michigan State University — Spring 2012

3.

**Principal Investigator**, NIH, Ruth L. Kirschstein National Research Service Award (NRSA) for Individual Predoctoral Fellows (F-31): “Acute exercise and cognitive control in children with ADHD,” \$147,073 TDIC (not funded, December 2009).

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents
2.

**Principal Investigator**, GSSI, Gatorade Sport Science Institute Student Research Grant: “The effect of acute exercise on neurocognition in ADHD children”, \$3,500 (not funded, July 2008).

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents
1.

**Principal Investigator**, NSF, National Science Foundation Graduate Research Fellowship Award: “Acute aerobic exercise, neurocognition, and academic achievement in preadolescent children”, \$121,500 TDIC (not funded, November 2007).

[X] Formulated Concept

[X] Aims

[X] Research Plan

[X] Budget

[X] Supporting Documents

Internal Grants:

8.

**Principal Investigator**, Michigan State University, College of Education Research Enhancement Grant, “Acquisition of EEG in Non-Laboratory Settings”, \$3,000 (funded, Spring 2021).
7.

**Fellow**, Michigan State University, College of Education Post-tenure Research Fellows Program, \$5,000 (funded, Fall 2019).

Tenured at Michigan State University — Spring 2018
6.

**Principal Investigator**, Michigan State University, College of Education IRTL Seed Grant Program, “Physical activity to reduce Down Syndrome related cognitive impairments”, \$7,000 (funded, Spring 2017). Co-investigators: J. Hauck, K. Gwizdala.

Started at Michigan State University — Spring 2012
5.

**Student Recipient**, University of Illinois at Urbana-Champaign, Graduate College Conference Travel Grant, “ERPs to Academics”, \$475 (funded, Fall 2010).
4.

**Fellow**, University of Illinois at Urbana-Champaign, Predoctoral Training Fellowship through the NICHD Developmental Psychobiology and Neurobiology Training Grant at the University of Illinois (2 T32 HD007333), \$107,356 (funded, January 15th, 2010).
3.

**Student Recipient**, University of Illinois at Urbana-Champaign, Graduate College Conference Travel Grant, “Fitness and the modulation of cognitive control in preadolescent children”, \$500 (funded, Fall 2009).
2.

**Student Recipient**, University of Illinois at Urbana-Champaign, Graduate College Conference Travel Grant, “The Relationship of age and fitness to attentional orienting and task difficulty”, \$500 (funded, Fall 2007).
1.

**Student Recipient**, University of Illinois at Urbana-Champaign, College of Applied Life Studies Career Development and Leadership Awards Conference Travel Grant, “Neuroelectric and behavioral indices of interference control during acute cycling”, \$250 (funded, Spring 2006).

Grants in Support of Research Mentorship:

- Colt Coffman (doctoral advisee)
23.

**Mentor** (C. Coffman, Trainee), Michigan State University, College of Education Summer Research Fellowship, \$7,000 (funded, 2023).
22.

**Mentor** (C. Coffman, Trainee), Michigan State University, College of Education Summer Research Development Fellowship, \$6,000 (funded, 2022).

## Lauren Bullard (doctoral advisee)

21. **Mentor** (L. Bullard, Trainee), Michigan State University, College of Education Summer Research Fellowship, \$7,000 (funded, 2023).
20. **Mentor** (L. Bullard, Trainee), Michigan State University, College of Education Summer Research Fellowship, \$6,000 (funded, 2022).

## Oksana Ellison (doctoral advisee)

19. **Mentor** (O. Ellison, Trainee), Michigan State University, College of Education Dissertation Completion Fellowship, \$7,000 (funded, 2023).
18. **Mentor** (O. Ellison, Trainee), Michigan State University, College of Education Summer Research Fellowship, \$12,000 (funded, 2021 to 2022).

## Madison Chandler (doctoral advisee)

17. **Mentor** (M. Chandler, Trainee), Michigan State University, College of Education Summer Research Renewable Fellowship, \$12,000 (funded, 2018 to 2020).
16. **Mentor** (M. Chandler, Trainee), Michigan State University, College of Education Summer Research Development Fellowship, \$5,000 (funded, 2018).

## Amanda McGowan (doctoral advisee)

15. **Mentor** (A. McGowan, Trainee), Michigan State University, College of Education Dissertation Completion Fellowship, \$7,000 (funded, 2020).
14. **Mentor** (A. McGowan, Trainee), Michigan State University, College of Education Summer Research Renewable Fellowship, \$12,000 (funded, 2018 to 2020).
13. **Mentor** (A. McGowan, Trainee), Michigan State University, Department of Kinesiology Research Development Fellowship, \$4,000 (funded, 2018).

## Katy Gwizdala (doctoral advisee)

12. **Mentor** (K. Gwizdala, Trainee), Michigan State University, University Dissertation Completion Fellowship, \$7,000 (funded, 2018).
11. **Mentor** (K. Gwizdala, Trainee), Michigan State University, College of Education Summer Research Renewable Fellowship, \$12,000 (funded, 2016 to 2017). Co-Mentor: J. Hauck.
10. **Mentor** (K. Gwizdala, Trainee), Michigan State University, College of Education Summer Research Development Fellowship, \$2,500 (funded, February 2016).

## David Henning (doctoral advisee)

9. **Mentor** (D. A. Henning, Trainee), Michigan State University, Department of Kinesiology Research Development Fellowship, \$4,000 (funded, December 2014).

## Andrew Parks (doctoral advisee)

8. **Mentor** (A. C. Parks, Trainee), Michigan State University, College of Education Dissertation Completion Fellowship, \$7,000 (funded, December 2016).
7. **Mentor** (A. C. Parks, Trainee), Michigan State University, College of Education Summer Research Renewable Fellowship, \$12,000 (funded, December 2013).
6. **Mentor** (A. C. Parks, Trainee), Michigan State University, Department of Kinesiology Research Development Fellowship, \$3,340 (funded, December 2013).
5. **Mentor** (A. C. Parks, Trainee), Michigan State University, College of Education Summer Research Development Fellowship, \$5,000 (funded, March 2013).

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#### Undergraduate Support

4. **Mentor**, Michigan State University, College of Education Undergraduate Research Support, "Physical Activity Induced Transient Changes in Hemodynamic Function", \$1,250 (funded, Fall 2015).
3. **Mentor**, Michigan State University, Neuroscience Program Research Experience for Neuroscience Undergraduate Majors, \$2,400 (funded, May 2014).
2. **Mentor**, Michigan State University, College of Education Undergraduate Research Support, "The Effects of Different Aspects of Physical Activity on Children with ADHD", \$3,500 (funded, Fall 2013).
1. **Mentor**, Michigan State University, College of Education Undergraduate Research Support, "Greater Integrity of Learning, Information Consolidation, and Retrieval as a Function of Aerobic Fitness", \$2,270 (funded, Fall 2012).

Scholarship

*\*Students or trainees working with M. B. Pontifex are indicated. Journal rankings within each journal category, current impact factor, and citation metrics obtained from Journal Citation Reports and Google Scholar.*

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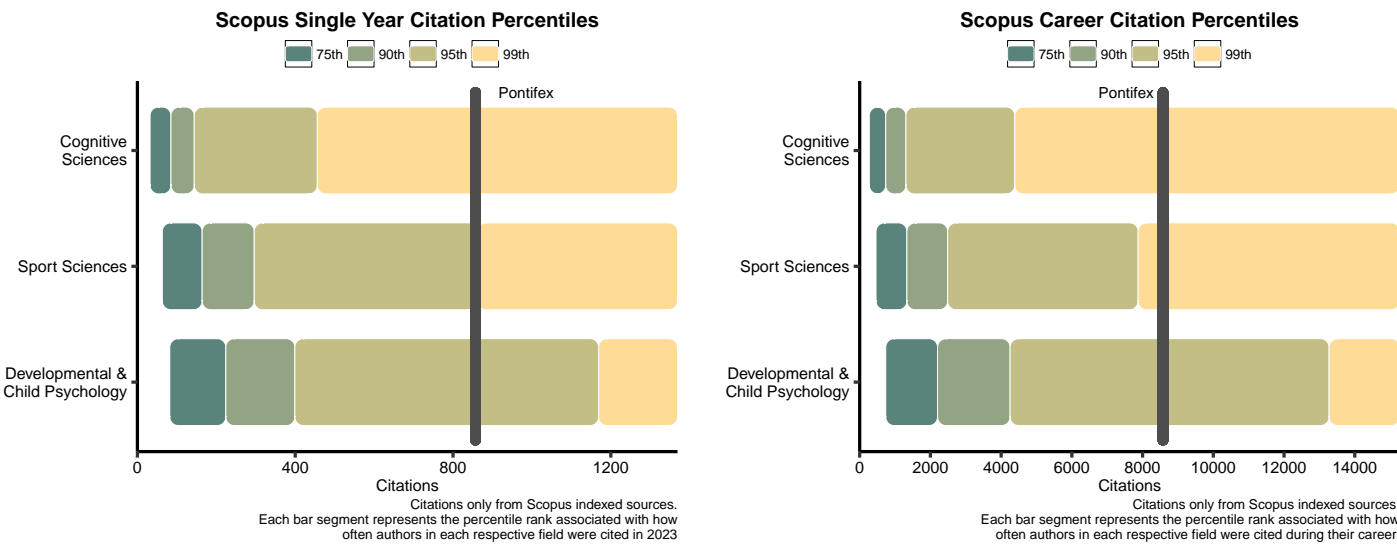
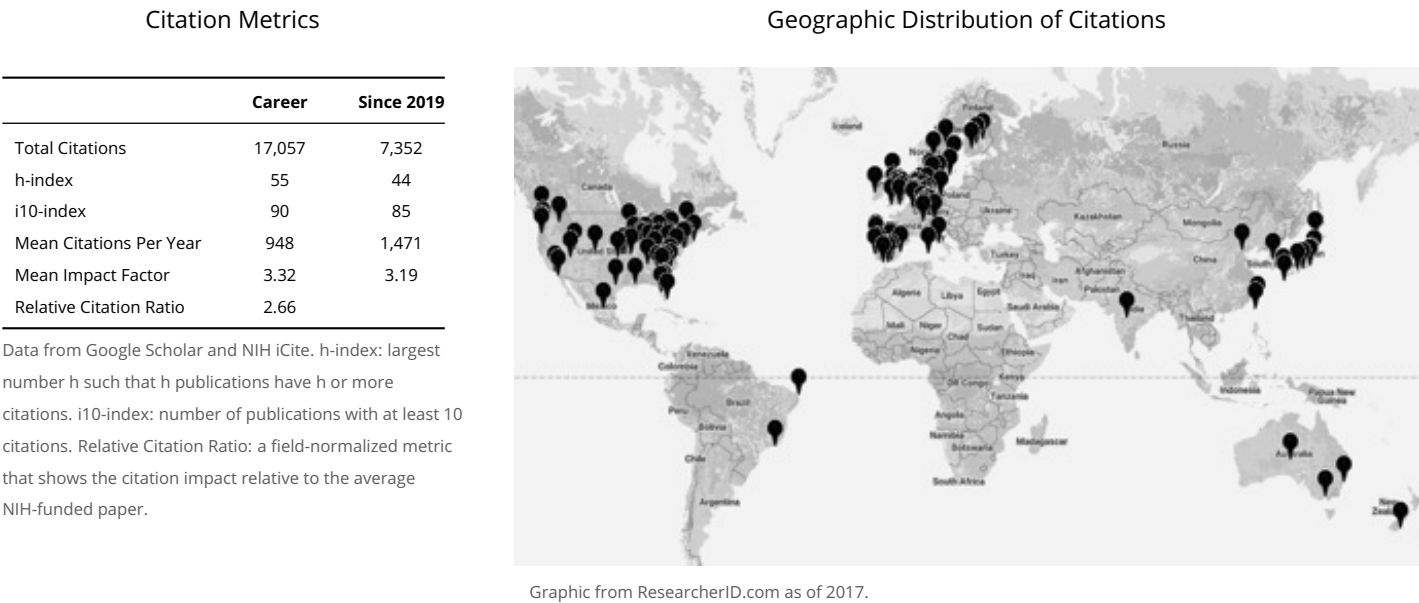
Publons

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orcid.org

Citation Metrics for All Publications:



Data from Ioannidis (2023). <https://doi.org/10.17632/btchxktzyw.6>.

Peer-Reviewed Journal Articles:

2024

108. \*Ellison, O. K., \*Bullard, L. E., Lee, G. K., Vazou, S., Pfeiffer, K. A., Baez, S. E., & Pontifex, M. B. (2024). Examining efficacy and potential mechanisms of mindfulness-based cognitive therapy for anxiety and stress reduction among college students in a cluster-randomized controlled trial. *International Journal of Clinical and Health Psychology*, 24, 100514. <https://doi.org/10.1016/j.ijchp.2024.100514>.

☒ Research Design

☒ Statistical Analysis

☒ Drafted Manuscript

☒ Revised Manuscript

☐ Data Collection

Journal Metrics: 9 of 180, 1st Quartile (Psychology, Clinical) [2023]

Impact Factor: 5.3

107. Ligeza, T. S., Raine, L. B., Pontifex, M. B., Wyczesany, M., Kramer, A. F., Hillman, C. H. (2024). Cognitive benefits of higher cardiorespiratory fitness in preadolescent children are associated with increased connectivity within the cingulo-opercular network. *Scientific Reports*, 14, 21193. <https://doi.org/10.1038/s41598-024-72074-y>.

☒ Research Design

☐ Statistical Analysis

☐ Drafted Manuscript

☒ Revised Manuscript

☒ Data Collection

Journal Metrics: 25 of 134, 1st Quartile (Multidisciplinary Sciences) [2023]

Impact Factor: 3.8

106. \*Coffman, C. A., \*Bullard, L. E., & Pontifex, M. B. (2024). Effects of repeated administration of an inhibitory control task in the absence of an intervention. *Journal of Cognitive Enhancement*. <https://doi.org/10.1007/s41465-024-00309-x>.

☒ Research Design

☒ Statistical Analysis

☒ Drafted Manuscript

☒ Revised Manuscript

☐ Data Collection

Journal Metrics: 242 of 310, 4th Quartile (Neurosciences) [2023]

Impact Factor: 1.8

105. \*Chandler, M. C., \*Ellison, O. K., \*McGowan, A. L., Fenn, K. M., & Pontifex, M. B. (2024). Physical activity and sleep moderate the relationship between stress and screen time in college-aged adults. *Journal of American College Health*, 72(5), 1401-1411. <https://doi.org/10.1080/07448481.2022.2077110>. (PMID: 35613432)

☒ Research Design

☒ Statistical Analysis

☒ Drafted Manuscript

☒ Revised Manuscript

☐ Data Collection

Journal Metrics: 277 of 756, 2nd Quartile (Education and Educational Research); 273 of 403, 3rd Quartile (Public, Environmental and Occupational Health) [2023]

Impact Factor: 1.6

104. \*Henning, D. A., \*Ellison, O. K., Hauck, J. L., Paneth, N., Pfeiffer, K. A., & Pontifex, M. B. (2024). Aspects of physical activity and quality of life in adults with Cerebral Palsy. *Research Quarterly for Exercise and Sport*, 95(3), 601-608. <https://doi.org/10.1080/02701367.2023.2290266>.

☒ Research Design

☒ Statistical Analysis

☒ Drafted Manuscript

☒ Revised Manuscript

☒ Data Collection

Journal Metrics: 88 of 139, 3rd Quartile (Hospitality, Leisure, Sport, & Tourism); 76 of 113, 3rd Quartile (Psychology, Applied) [2023]

Impact Factor: 1.4

103. Hsieh, S. S., Kao, S. C., Raine, L. B., McDonald, K. M., Pontifex, M. B., & Hillman, C. H. (2024). Acute bouts of aerobic exercise do not modulate task-evoked midfrontal theta oscillations in school-age children. *Journal of Cognitive Enhancement*, 8, 9-20. <https://doi.org/10.1007/s41465-023-00281-y>.

☐ Research Design

☒ Statistical Analysis

☐ Drafted Manuscript

☒ Revised Manuscript

☒ Data Collection

Journal Metrics: 242 of 310, 4th Quartile (Neurosciences) [2023]

Impact Factor: 1.8

102. Hsieh, S. S., \*McGowan, A. L., \*Chandler, M. C., & Pontifex, M. B. (2024). Acute moderate-intensity aerobic exercise facilitates processing speed involving inhibitory control but not neuroelectric index of control process and cognitive integration. *International Journal of Sport and Exercise Psychology*. <https://doi.org/10.1080/1612197X.2024.2365374>.

☒ Research Design

☒ Statistical Analysis

☐ Drafted Manuscript

☒ Revised Manuscript

☐ Data Collection

Journal Metrics: 59 of 139, 2nd Quartile (Hospitality, Leisure, Sport, & Tourism); 53 of 113, 2nd Quartile (Psychology, Applied) [2023]

Impact Factor: 2.3



101. Jung, M., **Pontifex, M. B.**, Hillman, C. H., Kang, M., Voss, M. W., Erickson, K. I., & Loprinzi, P. D. (2024). A mechanistic understanding of cognitive performance deficits concurrent with vigorous intensity exercise. *Brain and Cognition*, 180, 106208. <https://doi.org/10.1016/j.bandc.2024.106208>.

☐ Research Design   ☒ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 212 of 310, 3rd Quartile (Neurosciences); 38 of 99, 2nd Quartile (Psychology, Experimental) [2023]

Impact Factor: 2.2

## 2023

100. \*Coffman, C. A., Gunn, B. S., Pasquina, P. F., McCrea, M. A., McAllister, T. W., Broglio, S. P., Moore, R. D., & **Pontifex, M. B.** (2023). Concussion risk and recovery in athletes with psychostimulant-treated Attention-Deficit/Hyperactivity Disorder: Findings from the NCAA-DOD CARE consortium. *Journal of Sport & Exercise Psychology*, 45(6), 337-346. <https://doi.org/10.1123/jsep.2023-0038>. (PMID: 38061352)

☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 68 of 139, 2nd Quartile (Hospitality, Leisure, Sport, & Tourism); 62 of 113, 3rd Quartile (Psychology, Applied) [2023]

Impact Factor: 2

99. Lou, X., Herold, F., Ludyga, S., Gerber, M., Kamijo K., **Pontifex, M. B.**, Hillman, C. H., Alderman, B. L., Müller, N. G., Kramer, A. F., Ishihara, T., Song, W., & Zou, L. (2023). Association of physical activity and fitness with executive function among preschoolers. *International Journal of Clinical and Health Psychology*, 23(4), 100400. <https://doi.org/10.1016/j.ijchp.2023.100400>. (PMCID: PMC10469079)

☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 9 of 180, 1st Quartile (Psychology, Clinical) [2023]

Impact Factor: 5.3

98. \*McGowan, A. L., Gerde, H. K., Pfeiffer, K. A., & **Pontifex, M. B.** (2023). Meeting 24-hour movement behavior guidelines in young children: Improved quantity estimation and self-regulation. *Early Education and Development*, 34(3), 762-789. <https://doi.org/10.1080/10409289.2022.2056694>. Preprint: <https://doi.org/10.31234/osf.io/34v8w>.

☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 179 of 756, 1st Quartile (Education and Educational Research); 46 of 91, 3rd Quartile (Psychology, Developmental); 33 of 74 2nd Quartile (Psychology, Educational) [2023]

Impact Factor: 2.1

97. Moore, R. D., Kay, J. M., Gunn, B. S., Torres-McGehee, T. M., & **Pontifex, M. B.** (2023). Increased anxiety and depression among collegiate athletes with comorbid ADHD and history of concussion. *Psychology of Sport & Exercise*, 68, 102418. <https://doi.org/10.1016/j.psychsport.2023.102418>.

☐ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 37 of 139, 2nd Quartile (Hospitality, Leisure, Sport, & Tourism); 34 of 113, 2nd Quartile (Psychology, Applied); 21 of 127, 1st Quartile (Sport Sciences) [2023]

Impact Factor: 3.1

96. **Pontifex, M. B.**, & \*Coffman, C. A. (2023). Validation of the g.tec Unicorn Hybrid Black wireless EEG system. *Psychophysiology*, 60(9), e14320. <https://doi.org/10.1111/psyp.14320>. (PMID: 37171024)

☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 143 of 310, 2nd Quartile (Neurosciences); 27 of 85, 2nd Quartile (Physiology); 20 of 99, 1st Quartile (Psychology, Experimental) [2023]

Impact Factor: 2.9

95. Taylor, A., Kong, C., Zhang, Z., Herold, F., Ludyga, S., Healy, S., Gerber, M., Cheval, B., **Pontifex, M. B.**, Kramer, A. F., Chen, S., Zhang, Y., Müller, N., Tremblay, M. S., Zou, L. (2023). Associations between meeting 24-hour movement behavior guidelines with cognitive difficulty and social relationships for children and adolescents with Attention Deficit/Hyperactive Disorder. *Child and Adolescent Psychiatry and Mental Health*, 17, 42. <https://doi.org/10.1186/s13034-023-00588-w>. (PMCID: PMC10042421)

☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 19 of 186, 1st Quartile (Pediatrics); 79 of 276, 2nd Quartile (Psychiatry) [2023]

Impact Factor: 3.4



94. Zou, L., Herold, F., Ludyga, S., Kamijo K., Müller, N. G., **Pontifex, M. B.**, Heath, M., Kuwamizu, R., Soya, H., Hillman, C. H., Ando, S., Alderman, B. L., Cheval, B., & Kramer, A. F. (2023). Look into my eyes: What can eye-based measures tell us about the relationship between physical activity and cognitive performance?. *Journal of Sport and Health Science*, 12(5), 568-591. <https://doi.org/10.1016/j.jshs.2023.04.003>. (PMCID: PMC10466196)

☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 5 of 139, 1st Quartile (Hospitality, Leisure, Sport, & Tourism); 2 of 127, 1st Quartile (Sport Sciences) [2023]

Impact Factor: 9.7

Promoted to Professor at Michigan State University — Spring 2023

2021

93. Beidler, E., Donnellan, B., Kontos, A., Nogle, S., **Pontifex, M. B.**, & Covassin, T. (2021). The relationship between impulsivity, sensation seeking, and concussion history in collegiate student-athletes. *Athletic Training & Sports Health Care*, 13(6), e402-e412. <https://doi.org/10.3928/19425864-20210519-01>.

☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

92. \*Bullard, L. E., \*Coffman, C. A., Kay, J. J. M., Holloway, J. P., Moore, R. D., & **Pontifex, M. B.** (2021). Attention-Deficit / Hyperactivity Disorder-related self-reported symptoms are associated with elevated concussion symptomatology. *Journal of Sport & Exercise Psychology*, 44, 116-126. <https://doi.org/10.1123/jsep.2021-0225>. (PMID: 35213818)

☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 42 of 57, 3rd Quartile (Hospitality, Leisure, Sport, & Tourism); 43 of 79, 3rd Quartile (Psychology, Applied) [2021]

Impact Factor: 2.597

91. \*Chandler, M. C., \*McGowan, A. L., Brascamp, J. W., & **Pontifex, M. B.** (2021). Phasic activity of the locus-coeruleus is not a mediator of the relationship between fitness and inhibition in college-aged adults. *International Journal of Psychophysiology*, 165, 1-7. <https://doi.org/10.1016/j.ijpsycho.2021.03.007>. (PMID: 33774078)

☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 147 of 305, 2nd Quartile (Neurosciences); 39 of 86, 2nd Quartile (Physiology); 50 of 97, 2nd Quartile (Psychology, Experimental) [2021]

Impact Factor: 2.903

90. \*Chandler, M. C., McRoy, K. Z., Goodwin, S., Bowles, R. P., **Pontifex, M. B.**, Bingham, G. E., & Gerde, H. K. (2021). Self regulation moderates the relationship between fine motor skills and writing in early childhood. *Early Childhood Research Quarterly*, 57, 239-250. <https://doi.org/10.1016/j.ecresq.2021.06.010>.

☐ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 52 of 267, 1st Quartile (Education & Education Research); 24 of 78, 2nd Quartile (Psychology) [2021]

Impact Factor: 3.815

89. Delli Paoli, A. G., Smith, A. L., **Pontifex, M. B.**, & Moser, J. S. (2021). Aerobic fitness moderates girls' affective and working memory responses to social exclusion. *Journal of Sport & Exercise Psychology*, 55, 101927. <https://doi.org/10.1016/j.psychsport.2021.101927>.

☐ Research Design   ☐ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 42 of 57, 3rd Quartile (Hospitality, Leisure, Sport, & Tourism); 43 of 79, 3rd Quartile (Psychology, Applied) [2021]

Impact Factor: 2.597

88. \*Gwizdala, K. L., Ferguson, D. P., Kovan, J., Novak, V., & **Pontifex, M. B.** (2021). Placebo controlled phase II clinical trial: Safety and efficacy of combining intranasal insulin & acute exercise. *Metabolic Brain Disease*, 36(6), 1289-1303. <https://doi.org/10.1007/s11011-021-00727-2>. (PMID: 33856613)

☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection

Journal Metrics: 85 of 146, 3rd Quartile (Endocrinology & Metabolism); 151 of 274, 3rd Quartile (Neurosciences) [2021]

Impact Factor: 3.655

87. \*McGowan, A. L., Bretzin, A. C., Anderson, M., **Pontifex, M. B.**, & Covassin, T. (2021). Paired cognitive flexibility task with symptom factors improves detection of sports-related concussion in high school and collegiate athletes. *Journal of the Neurological Sciences*, 428, 117575. <https://doi.org/10.1016/j.jns.2021.117575>. (PMID: 34304023)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 71 of 212, 2nd Quartile (Clinical Neurology); 103 of 273, 2nd Quartile (Neurosciences) [2021]    Impact Factor: 4.553
86. \*McGowan, A. L., \*Chandler, M. C., & **Pontifex, M. B.** (2021). Aerobic fitness relates to superior exact and approximate arithmetic processing in college-aged adults. *Trends in Neuroscience and Education*, 23, 100154. <https://doi.org/10.1016/j.tine.2021.100154>. Preprint: <https://doi.org/10.31234/osf.io/sepfh>. (PMID: 34006363)  
☒ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 189 of 305, 3rd Quartile (Neurosciences) [2021]    CiteScore: 4.5
85. \*McGowan, A. L., Gerde, H. K., Pfeiffer, K. A. & **Pontifex, M. B.** (2021). Physically active learning in preschoolers: Improved self-regulation, comparable quantity estimation. *Trends in Neuroscience and Education*, 22, 100150. <https://doi.org/10.1016/j.tine.2021.100150>. (PMID: 33845979)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 189 of 305, 3rd Quartile (Neurosciences) [2021]    CiteScore: 4.5
84. **Pontifex, M. B.**, \*Parks, A. C., \*Delli Paoli, A. G., Schroder, H. S., & Moser, J. S. (2021). The effect of acute exercise for reducing alterations in cognition associated with anxiety. *International Journal of Psychophysiology*, 167, 47-56. <https://doi.org/10.1016/j.ijpsycho.2021.06.008>. (PMID: 34153415)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 147 of 305, 2nd Quartile (Neurosciences); 39 of 86, 2nd Quartile (Physiology); 50 of 97, 2nd Quartile (Psychology, Experimental) [2021]    Impact Factor: 2.903
- 2020
83. \*Chandler, M. C., \*McGowan, A. L., Burles, F., Mathewson, K. E., Scavuzzo, C. J., & **Pontifex, M. B.** (2020). Aerobic fitness is unrelated to the acquisition of relational memory in college-aged adults. *Journal of Sport & Exercise Psychology*, 42, 472-479. <https://doi.org/10.1123/jsep.2020-0004>. (PMID: 33176274)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 36 of 58, 3rd Quartile (Hospitality, Leisure, Sport, & Tourism); 41 of 83, 2nd Quartile (Psychology, Applied) [2020]    Impact Factor: 3.016
82. \*Chandler, M. C., \*McGowan, A. L., Ferguson, D. P., & **Pontifex, M. B.** (2020). Carbohydrate mouth rinse has no effects on behavioral or neuroelectric indices of cognition. *International Journal of Psychophysiology*, 151, 49-58. <https://doi.org/10.1016/j.ijpsycho.2020.02.012>. (PMID: 32087182)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 188 of 273, 3rd Quartile (Neurosciences); 37 of 81, 2nd Quartile (Physiology); 32 of 77, 2nd Quartile (Psychology) [2020]    Impact Factor: 2.997
81. Covassin, T., \*McGowan, A. L., Bretzin, A. C., Anderson, M. N., Petit, K. M., Savage, J. L., Stephenson-Brown, K., Elbin, R. J., & **Pontifex, M. B.** (2020). Preliminary investigation of enhance brain function index among high school and collegiate concussed male and female athletes. *The Physician and Sportsmedicine*, 48, 442-449. <https://doi.org/10.1080/00913847.2020.1745717>. (PMID: 32228157)  
☒ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 54 of 88, 3rd Quartile (Sport Sciences) [2020]    Impact Factor: 2.241

80. Hsieh, S.-S., Chueh, T.-Y., Kao, S.-C., Westfall, D. R., Morris, T. P., Raine, L. B., Hopman, R. J., **Pontifex, M. B.**, Castelli, D. M., Kramer, A. F., & Hillman, C. H. (2020). Greater childhood cardiorespiratory fitness is associated with better top-down cognitive control: A midfrontal theta oscillation study. *Psychophysiology*, 57, e13678. <https://doi.org/10.1111/psyp.13678>. (PMID: 32877574)
- ☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☒ Data Collection
- Journal Metrics: 116 of 273, 2nd Quartile (Neurosciences); 21 of 81, 2nd Quartile (Physiology); 15 of 91, 1st Quartile (Psychology, Experimental) [2020]   Impact Factor: 4.016
79. Kao, S.-C., Cadenas-Sanchez, C., Shigeta, T. T., McClure, A. D., Chang, Y.-K., **Pontifex, M. B.**, & Hillman, C. H. (2020). A systematic review of physical activity and cardiorespiratory fitness on P3b. *Psychophysiology*, 57, e13425. <https://doi.org/10.1111/psyp.13425>. (PMID: 31228362)
- ☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection
- Journal Metrics: 116 of 273, 2nd Quartile (Neurosciences); 21 of 81, 2nd Quartile (Physiology); 15 of 91, 1st Quartile (Psychology, Experimental) [2020]   Impact Factor: 4.016
78. \*McGowan, A. L., Ferguson, D. P., Gerde, H. K., Pfeiffer, K. A., & **Pontifex, M. B.** (2020). Preschoolers exhibit greater on-task behavior following physically active lessons on the approximate number system. *Scandinavian Journal of Medicine and Science in Sports*, 30, 1777-1786. <https://doi.org/10.1111/sms.13727>. (PMID: 32426888)
- ☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection
- Journal Metrics: 18 of 88, 1st Quartile (Sport Sciences) [2020]   Impact Factor: 4.221
77. Mora-Gonzalez, J., Esteban-Cornejo, I., Solis-Urra, P., Migueles, J. H., Cadenas-Sanchez, C., Molina-Garcia, P., Rodriguez-Ayllon, M., Hillman, C. H., Catena, A., **Pontifex, M. B.**, & Ortega F. B. (2020). Fitness, physical activity, sedentary time, inhibitory control and neuroelectric activity in children with overweight/obesity: The ActiveBrains project. *Psychophysiology*, 57, e13579. <https://doi.org/10.1111/psyp.13579>. (PMID: 32249933)
- ☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection
- Journal Metrics: 116 of 273, 2nd Quartile (Neurosciences); 21 of 81, 2nd Quartile (Physiology); 15 of 91, 1st Quartile (Psychology, Experimental) [2020]   Impact Factor: 4.016
76. Raine, L. R., Kao, S. C., Drollette, E. S., **Pontifex, M. B.**, Pindus, D., Hunt, J., Kramer, A. F., & Hillman, C. H. (2020). The role of BMI on cognition following acute physical activity in preadolescent children. *Trends in Neuroscience and Education*, 21, 100143. <https://doi.org/10.1016/j.tine.2020.100143>. (PMID: 33303110)
- ☐ Research Design   ☐ Statistical Analysis   ☐ Drafted Manuscript   ☒ Revised Manuscript   ☒ Data Collection
- Journal Metrics: 229 of 293, 4th Quartile (Neurosciences) [2020]   CiteScore: 3
- 2019
75. \*Chandler, M. C., \*McGowan, A. L., Payne, B. R., Wray, A. H., & **Pontifex, M. B.** (2019). Aerobic fitness relates to differential attentional but not language-related cognitive processes. *Brain and Language*, 198, 104681. <https://doi.org/10.1016/j.bandl.2019.104681>. (PMID: 31514088)
- ☒ Research Design   ☒ Statistical Analysis   ☒ Drafted Manuscript   ☒ Revised Manuscript   ☐ Data Collection
- Journal Metrics: 17 of 187, 1st Quartile (Linguistics); 34 of 89, 2nd Quartile (Psychology, Experimental) [2019]   Impact Factor: 2.339
74. Gunnell, K. E., Poitras, V. J., LeBlanc, A. G., Schibli, K., Barbeau, K., Hedayati, N., **Pontifex, M. B.**, Goldfield, G. S., Dunlap, C., Lehan, E., & Tremblay, M. S. (2019). Physical activity and brain structure, brain function, and cognition in children and youth: A systematic review of randomized controlled trials. *Mental Health and Physical Activity*, 16, 105-127. <https://doi.org/10.1016/j.mhpa.2018.11.002>.
- ☐ Drafted Manuscript   ☒ Revised Manuscript
- Journal Metrics: 84 of 142, 3rd Quartile (Psychiatry) [2019]   Impact Factor: 1.714

73. \*McGowan, A. L., Bretzin, A. B., Savage, J. L., Petit, Kyle M., Covassin, T., & **Pontifex, M. B.** (2019). Acute and protracted disruptions to inhibitory control following sports-related concussion. *Neuropsychologia*, 131, 223-232. <https://doi.org/10.1016/j.neuropsychologia.2019.05.026>. (PMID: 31152752)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 23 of 89, 2nd Quartile (Psychology, Experimental) [2019]    Impact Factor: 2.652
  
72. \*McGowan, A. L., \*Chandler, M. C., Brascamp, J. W., & **Pontifex, M. B.** (2019). Pupillometric indices of locus-coeruleus activation are not modulated following single bouts of exercise. *International Journal of Psychophysiology*, 140, 41-52. <https://doi.org/10.1016/j.ijpsycho.2019.04.004>. (PMID: 30995458)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 167 of 272, 3rd Quartile (Neurosciences); 34 of 81, 2nd Quartile (Physiology); 26 of 78, 2nd Quartile (Psychology) [2019]    Impact Factor: 2.631
  
71. Mora-Gonzalez, J., Esteban-Cornejo, I., Cadenas-Sanchez, C., Migueles, J. H., Molina-Garcia, P., Rodriguez-Ayllon, M., Henriksson, P., **Pontifex, M. B.**, Catena, A., Ortega, F. B. (2019). Physical fitness, physical activity, and the executive function in overweight and obese children: A cross-sectional study from The ActiveBrains project. *Journal of Pediatrics*, 208, 50-56. <https://doi.org/10.1016/j.jpeds.2018.12.028>.  
☐ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 10 of 128, 1st Quartile (Pediatrics) [2019]    Impact Factor: 3.7
  
70. Mora-Gonzalez, J., Esteban-Cornejo, I., Cadenas-Sanchez, C., Migueles, J. H., Rodriguez-Ayllon, M., Molina-Garcia, P., Hillman, C. H., Catena, A., **Pontifex, M. B.**, & Ortega F. B. (2019). Fitness, physical activity, working memory and neuroelectric activity in children with overweight/obesity. *Scandinavian Journal of Medicine and Science in Sports*, 29, 1352-1363. <https://doi.org/10.1111/sms.13456>. (PMID: 31058358)  
☐ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 14 of 85, 1st Quartile (Sport Sciences) [2019]    Impact Factor: 3.255
  
69. **Pontifex, M. B.**, \*McGowan, A. L., \*Chandler, M. C., \*Gwizdala, K. L., \*Parks, A. C., Fenn, K., & Kamijo, K. (2019). A primer on investigating the after effects of acute bouts of physical activity on cognition. *Psychology of Sport & Exercise*, 40, 1-22. <https://doi.org/10.1016/j.psychsport.2018.08.015>.  
☒ Drafted Manuscript    ☒ Revised Manuscript  
 Journal Metrics: 20 of 56, 2nd Quartile (Hospitality, Leisure, Sport, & Tourism); 22 of 84, 2nd Quartile (Psychology, Applied) [2019]    Impact Factor: 2.819
  
68. Themanson, J. R., Bing, N. J., Sheese, B. E., & **Pontifex, M. B.** (2019). The influence of pitch-by-pitch feedback on neural activity and pitch perception in baseball. *Journal of Sport & Exercise Psychology*, 41, 65-72. <https://doi.org/10.1123/jsep.2018-0165>. (PMID: 31027460)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 28 of 56, 2nd Quartile (Hospitality, Leisure, Sport, & Tourism); 39 of 84, 2nd Quartile (Psychology, Applied) [2019]    Impact Factor: 2.239
  
67. Vasold, K., \*Parks, A. C., Phelan, D. M. L., **Pontifex, M. B.**, & Pivarnik, J. (2019). Reliability and validity of commercially available low-cost bio-electric impedance analysis. *International Journal of Sport Nutrition & Exercise Metabolism*, 29, 406-410. <https://doi.org/10.1123/ijnsnem.2018-0283>. (PMID: 30507268)  
☒ Research Design    ☐ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 26 of 89, 2nd Quartile (Nutrition & Dietetics); 10 of 85, 1st Quartile (Sport Sciences) [2019]    Impact Factor: 3.884

## 2018

66. Adjepong, M., Yakah, W., Harris, W. S., Annan, R. A., **Pontifex, M. B.**, & Fenton, J. I. (2018). Whole blood n-3 fatty acids are associated with executive function in 2 to 6-year-old Northern Ghanaian children. *Journal of Nutritional Biochemistry*, 57, 287-293. <https://doi.org/10.1016/j.jnutbio.2018.03.019>. (PMID: 29852451)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 13 of 87, 1st Quartile (Nutrition & Dietetics); 64 of 299, 1st Quartile (Biochemistry & Molecular Biology) [2018]    Impact Factor: 4.49
65. Drollette, E. S., **Pontifex, M. B.**, Raine, L. R., Scudder, M. R., Moore, R. D., Kao, S. C., Westfall, D. R., Wu, C. T., Kamijo, K., Castelli, D. M., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2018). Effects of the FITKids physical activity randomized controlled trial on conflict monitoring in youth. *Psychophysiology*, 55, e13017. <https://doi.org/10.1111/psyp.13017>. (PMCID: PMC5754928)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 108 of 267, 2nd Quartile (Neurosciences); 21 of 81, 2nd Quartile (Physiology); 17 of 77, 1st Quartile (Psychology) [2018]    Impact Factor: 3.378
64. \*McGowan, A. L., Bretzin, A. C., Savage, J. L., Petit, K. M., \*Parks, A. C., Covassin, T., & **Pontifex, M. B.** (2018). Preliminary evidence for differential trajectories of recovery for cognitive flexibility following sports-related concussion. *Neuropsychology*, 32, 564-574. <https://doi.org/10.1037/neu0000475>. (PMID: 29952610)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 30 of 77, 2nd Quartile (Psychology); 175 of 267, 3rd Quartile (Neurosciences) [2018]    Impact Factor: 2.477
63. **Pontifex, M. B.**, Gwizdala, K., Weng, T. B., Zhu, D. C., & Voss, M. W. (2018). Cerebral blood flow is not modulated following acute aerobic exercise in preadolescent children. *International Journal of Psychophysiology*, 134, 44-51. <https://doi.org/10.1016/j.ijpsycho.2018.10.007>. (PMCID: PMC6240392)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 182 of 267, 3rd Quartile (Neurosciences); 41 of 81, 3rd Quartile (Physiology); 33 of 77, 2nd Quartile (Psychology) [2018]    Impact Factor: 2.407
62. Raine, L., Kao, S.-C., Pindus, D., Westfall, D. R., Shigeta, T. T., Logan, N., Cadenas-Sanchez, C., Li, J., Drollette, E. S., Pontifex, M. B., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2018). A largescale re-analysis of childhood fitness and inhibitory control. *Journal of Cognitive Enhancement*, 2, 170-192. <https://doi.org/10.1007/s41465-018-0070-7>.  
☐ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Tenured at Michigan State University — Spring 2018

## 2017

61. Brassell, A. A., Shoulberg, E. K., **Pontifex, M. B.**, Smith, A. L., & Hoza, B. (2017). Aerobic fitness and inhibition in young children: Moderating roles of ADHD status and age. *Journal of Clinical Child and Adolescent Psychology*, 46, 646-652. <https://doi.org/10.1080/15374416.2015.1063431>. (PMCID: PMC4854789)  
☐ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 6 of 127, 1st Quartile (Psychology, Clinical); 3 of 73, 1st Quartile (Psychology, Developmental) [2017]    Impact Factor: 5.014
60. \*Delli Paoli, A. G., Smith, A. L., & **Pontifex, M. B.** (2017). Does walking mitigate affective and cognitive responses to social exclusion?. *Journal of Sport and Exercise Psychology*, 39, 97-108. <https://doi.org/10.1123/jsep.2016-0202>. (PMID: 28253050)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 16 of 50, 2nd Quartile (Hospitality, Leisure, Sport & Tourism); 32 of 78, 2nd Quartile (Psychology); 26 of 82, 2nd Quartile (Psychology, Applied); 26 of 81, 2nd Quartile (Sport Sciences) [2017]    Impact Factor: 2.41

59. Kao, S-C., Drollette, E. S., Scudder, M. R., Raine, L. B., Westfall, D. R., **Pontifex, M. B.**, & Hillman, C. H. (2017). Aerobic fitness is associated with cognitive control strategy in preadolescent children. *Journal of Motor Behavior*, 49, 150-162. <https://doi.org/10.1080/00222895.2016.1161594>. (PMCID: PMC6125153)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 229 of 261, 4th Quartile (Neurosciences); 57 of 78, 3rd Quartile (Psychology); 58 of 85, 3rd Quartile (Psychology, Experimental); 55 of 81, 3rd Quartile (Sport Sciences) [2017]    Impact Factor: 1.513
58. Kao, S-C., Westfall, D. R., **\*Parks, A. C.**, **Pontifex, M. B.**, & Hillman, C. H. (2017). Muscular and aerobic fitness, working memory, and academic achievement in children. *Medicine and Science in Sports and Exercise*, 49, 500-508. <https://doi.org/10.1249/MSS.0000000000001132>. (PMID: 27776002)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 7 of 81, 1st Quartile (Sport Sciences) [2017]    Impact Factor: 4.291
57. **Pontifex, M. B.**, **\*Gwizdala, K. L.**, **\*Parks, A. C.**, Billinger, M., & Brunner, C. (2017). Variability of ICA decomposition may impact EEG signals when used to remove eye blink artifacts. *Psychophysiology*, 54, 386-398. <https://doi.org/10.1111/psyp.12804>. (PMID: 28026876)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 127 of 261, 2nd Quartile (Neurosciences); 27 of 83, 2nd Quartile (Physiology); 16 of 78, 1st Quartile (Psychology) [2017]    Impact Factor: 3.118
56. **Pontifex, M. B.**, Miskovic, V., & Laszlo, S. (2017). Evaluating the efficacy of fully automated approaches for the selection of eye blink ICA components. *Psychophysiology*, 54, 780-791. <https://doi.org/10.1111/psyp.12827>. (PMCID: PMC5397386)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 127 of 261, 2nd Quartile (Neurosciences); 27 of 83, 2nd Quartile (Physiology); 16 of 78, 1st Quartile (Psychology) [2017]    Impact Factor: 3.118
55. Raine, L. B., Khan, N. A., Drollette, E. S., **Pontifex, M. B.**, Kramer, A. F., & Hillman, C. H. (2017). Obesity, visceral adipose tissue, and cognitive function in childhood. *Journal of Pediatrics*, 187, 134-140. <https://doi.org/10.1016/j.jpeds.2017.05.023>. (PMCID: PMC5541384)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 8 of 124, 1st Quartile (Pediatrics) [2017]    Impact Factor: 3.667
54. Westfall, D. R., Kao, S-C., Scudder, M. R., **Pontifex, M. B.**, & Hillman, C. H. (2017). The association between aerobic fitness and congruency sequence effects in preadolescent children. *Brain and Cognition*, 113, 85-92. <https://doi.org/10.1016/j.bandc.2016.12.005>. (PMCID: PMC5346449)  
☒ Research Design    ☐ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 162 of 261, 3rd Quartile (Neurosciences); 25 of 85, 2nd Quartile (Psychology, Experimental) [2017]    Impact Factor: 2.574

## 2016

53. Chu, C-H., Chen, F-T., **Pontifex, M. B.**, & Chang, Y-K. (2016). Health-related physical fitness, academic achievement, and neuroelectric measures in children and adolescents. *International Journal of Sport and Exercise Psychology*, 17(2), 117-132. <https://doi.org/10.1080/1612197X.2016.1223420>.  
☒ Drafted Manuscript    ☒ Revised Manuscript  
 Journal Metrics: na [2016]    Impact Factor: 1.063
52. Drollette, E. S., Scudder, M. R., Raine, L. B., Moore, R. D., **Pontifex, M. B.**, Erickson, K. I., & Hillman, C. H. (2016). The sexual dimorphic association of cardiorespiratory fitness to working memory in children. *Developmental Science*, 9, 90-108. <https://doi.org/10.1111/desc.12291>. (PMID: 25702796)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 4 of 70, 1st Quartile (Psychology Developmental); 3 of 84, 1st Quartile (Psychology Experimental) [2016]    Impact Factor: 4.604



51. Jumbe, T., Comstock, S. S., Harris, W. S., Kinabo, J., **Pontifex, M. B.**, & Fenton, J. I. (2016). Whole blood fatty acids are associated with executive function in Tanzanian children aged four to six years: A cross-sectional study. *British Journal of Nutrition*, *116*, 1537-1545. <https://doi.org/10.1017/S0007114516003494>. (PMID: 27765078)

☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection

Journal Metrics: 20 of 81, 1st Quartile (Nutrition & Dietetics) [2016]

Impact Factor: 3.706

50. **Pontifex, M. B.**, \*Gwizdala, K. L., \*Parks, A. C., Pfeiffer, K. A., & Fenn, K. M. (2016). The association between physical activity during the day and long-term memory stability. *Scientific Reports*, *6*, 38148. <https://doi.org/10.1038/srep38148>. (PMID: 27909312)

☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 10 of 64, 1st Quartile (Multidisciplinary Sciences) [2016]

Impact Factor: 4.259

## 2015

49. Berchicci, M., **Pontifex, M. B.**, Drollette, E. S., Pesce, C., Hillman, C. H., & Di Russo, F. (2015). From cognitive motor preparation to visual processing: The benefits of childhood fitness to brain health. *Neuroscience*, *298*, 211-219. <https://doi.org/10.1016/j.neuroscience.2015.04.028>. (PMID: 25907444)

☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 95 of 256, 2nd Quartile (Neurosciences) [2015]

Impact Factor: 3.231

48. Chaddock-Heyman, L., Erickson, K. I., Kienzler, C., King, M., **Pontifex, M. B.**, Raine, L. B., Hillman, C. H., & Kramer, A. F. (2015). The role of aerobic fitness in cortical thickness and mathematics achievement in preadolescent children. *PLoS ONE*, *10*(8), e0134115. <https://doi.org/10.1371/journal.pone.0134115>. (PMCID: PMC4534422)

☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 11 of 56, 1st Quartile (Multidisciplinary Sciences) [2015]

Impact Factor: 3.057

47. \*Parks, A. C., Moore, R. D., Wu, C-T., Broglio, S. P., Covassin, T., Hillman, C. H., & Pontifex, M. B. (2015). The association between a history of concussion and variability in behavioral and neuroelectric indices of cognition. *International Journal of Psychophysiology*, *98*, 426-434. <https://doi.org/10.1016/j.ijpsycho.2015.08.006>. (PMID: 26327621)

☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 138 of 256, 3rd Quartile (Neurosciences); 34 of 83, 2nd Quartile (Physiology); 27 of 76, 2nd Quartile (Psychology) [2015]

Impact Factor: 2.596

46. **Pontifex, M. B.**, \*Parks, A. C., \*Henning, D. A., & Kamijo, K. (2015). Single bouts of exercise selectively sustain attentional processes. *Psychophysiology*, *52*, 618-625. <https://doi.org/10.1111/psyp.12395>. (PMID: 25523887)

☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 105 of 256, 2nd Quartile (Neurosciences); 25 of 83, 2nd Quartile (Physiology); 20 of 76, 2nd Quartile (Psychology) [2015]

Impact Factor: 3.074

## 2014

45. Chaddock-Heyman, L., Erickson, K. I., Holtrop, J. L., Voss, M. W., **Pontifex, M. B.**, Raine, L. B., Hillman, C. H., & Kramer, A. F. (2014). Aerobic fitness is associated with greater white matter integrity in children. *Frontiers in Human Neuroscience*, *8*, 584. <https://doi.org/10.3389/fnhum.2014.00584>. (PMCID: PMC4137385)

☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 85 of 252, 2nd Quartile (Neurosciences); 13 of 76, 1st Quartile (Psychology) [2014]

Impact Factor: 3.626

44. Drollette, E. S., Scudder, M. R., Raine, L. B., Moore, R. D., Saliba, B. J., **Pontifex, M. B.**, & Hillman, C. H. (2014). Acute exercise facilitates brain function and cognition in children who need it most: An ERP study of individual differences in inhibitory control capacity. *Developmental Cognitive Neuroscience*, 7, 53-64. <https://doi.org/10.1016/j.dcn.2013.11.001>. (PMID: 24309300)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 75 of 252, 2nd Quartile (Neurosciences) [2014]    Impact Factor: 3.833
43. Hillman, C. H., **Pontifex, M. B.**, Castelli, D. M., Khan, N. A., Raine, L. B., Scudder, M. R., Drollette, E. S., Moore, R. D., Wu, C. T., & Kamijo, K. (2014). Effects of the FITKids randomized controlled trial on executive control and brain function. *Pediatrics*, 134, e1063-e1071. <https://doi.org/10.1542/peds.2013-3219>. (PMID: 25266425)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 4 of 120, 1st Quartile (Pediatrics) [2014]    Impact Factor: 5.473
42. Khan, N. A., Raine, L. B., Drollette, E., Scudder, M. R., **Pontifex, M. B.**, Castelli, D. M., Donovan, S. M., Evans, E. E., & Hillman, C. H. (2014). Impact of the FITKIDS physical activity intervention on adiposity in prepubertal children. *Pediatrics*, 133, e875-e883. <https://doi.org/10.1542/peds.2013-2246>. (PMCID: PMC3966501)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 4 of 120, 1st Quartile (Pediatrics) [2014]    Impact Factor: 5.473
41. **Pontifex, M. B.**, Fine, J. G., \*Parks, A. C., da Cruz, K. & Smith, A. L. (2014). The role of physical activity in reducing barriers to learning in children with developmental disorders. *Monographs of the Society for Research in Child Development*, 79, 93-118. <https://doi.org/10.1111/mono.12132>. (PMID: 25387417)  
☒ Drafted Manuscript    ☒ Revised Manuscript  
 Journal Metrics: 29 of 68, 2nd Quartile (Psychology, Developmental) [2014]    Impact Factor: 1.966
40. **Pontifex, M. B.**, Kamijo, K., Scudder, M. R., Raine, L. B., Khan, N. A., Drollette, E. S., Evans, E. M., Castelli, D. M., Frank, K. A., & Hillman, C. H. (2014). The differential association of adiposity and fitness on cognitive control in preadolescent children. *Monographs of the Society for Research in Child Development*, 79, 72-92. <https://doi.org/10.1111/mono.12131>. (PMID: 25387416)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 29 of 68, 2nd Quartile (Psychology, Developmental) [2014]    Impact Factor: 1.966
39. **Pontifex, M. B.**, \*Parks, A. C., O'Neil, P. C., \*Egner, A. R., Warning, J. T., Pfeiffer, K. A., & Fenn, K. M. (2014). Poorer aerobic fitness relates to reduced integrity of multiple memory systems. *Cognitive, Affective, and Behavioral Neuroscience*, 14, 1132-1141. <https://doi.org/10.3758/s13415-014-0265-z>. (PMID: 24590393)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 11 of 51, 1st Quartile (Behavioral Sciences); 101 of 252, 2nd Quartile (Neurosciences) [2014]    Impact Factor: 3.287
- 2013
38. Chaddock-Heyman, L., Erickson, K. I., Voss, M. W., Knecht, A. M., **Pontifex, M. B.**, Castelli, D. M., Hillman, C. H., & Kramer, A. F. (2013). The effects of physical activity on functional MRI activation associated with cognitive control in children: A randomized controlled intervention. *Frontiers of Human Neuroscience*, 7(72), 1-13. <https://doi.org/10.3389/fnhum.2013.00072>. (PMCID: PMC3594762)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 128 of 252, 3rd Quartile (Neurosciences); 24 of 74, 2nd Quartile (Psychology) [2013]    Impact Factor: 2.895



37. Chaddock-Heyman, L., Erickson, K. I., Voss, M. W., Powers, J. P., Knecht, A. M., **Pontifex, M. B.**, Drollette, E. S., Moore, R. D., Raine, L. B., Scudder, M. R., Hillman, C. H., & Kramer, A. F. (2013). White matter microstructure is associated with cognitive control in children. *Biological Psychology*, *94*, 109–115. <https://doi.org/10.1016/j.biopsycho.2013.05.008>. (PMID: 23714226)

☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 11 of 49, 1st Quartile (Behavioral Sciences); 16 of 74, 1st Quartile (Psychology) [2013]

Impact Factor: 3.473

36. Gothe, N. P., **Pontifex, M. B.**, Hillman, C. H., & McAuley, E. (2013). The acute effects of Yoga on executive function. *Journal of Physical Activity & Health*, *10*, 488–495. <https://doi.org/10.1123/jpah.10.4.488>. (PMID: 22820158)

☒ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection

Journal Metrics: 43 of 143, 2nd Quartile (Public, Environmental, & Occupational Health) [2013]

Impact Factor: 1.863

35. Moore, R. D., Wu, C., **Pontifex, M. B.**, O'Leary, K. C., Scudder, M. R., Raine, L. B., Johnson, C. R., & Hillman, C. H. (2013). Aerobic fitness and intra-individual variability of neurocognition in preadolescent children. *Brain and Cognition*, *82*, 43–57. <https://doi.org/10.1016/j.bandc.2013.02.006>. (PMCID: PMC3632076)

☒ Research Design    ☐ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 143 of 252, 3rd Quartile (Neurosciences) [2013]

Impact Factor: 2.683

34. **Pontifex, M. B.**, Saliba, B. J., Raine, L. B., Picchietti, D. L., & Hillman, C. H. (2013). Exercise improves behavioral, neurocognitive, and scholastic performance in children with Attention Deficit/Hyperactivity Disorder. *Journal of Pediatrics*, *162*, 543–551. <https://doi.org/10.1016/j.jpeds.2012.08.036>. (PMCID: PMC3556380)

☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 6 of 118, 1st Quartile (Pediatrics) [2013]

Impact Factor: 3.736

## 2012

33. Chaddock, L., Erickson, K. I., Prakash, R. S., Voss, M. W., VanPatter, M., **Pontifex, M. B.**, Hillman, C. H., & Kramer, A. F. (2012). A functional MRI investigation of the association between childhood aerobic fitness and neurocognitive control. *Biological Psychology*, *89*, 260–268. <https://doi.org/10.1016/j.biopsycho.2011.10.017>. (PMID: 22061423)

☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 12 of 49, 1st Quartile (Behavioral Sciences); 15 of 75, 1st Quartile (Psychology) [2012]

Impact Factor: 3.399

32. Chaddock, L., Hillman, C. H., **Pontifex, M. B.**, Johnson, C. R., Raine, L. B., & Kramer, A. F. (2012). Childhood aerobic fitness predicts cognitive performance one year later. *Journal of Sport Sciences*, *30*, 421–430. <https://doi.org/10.1080/02640414.2011.647706>. (PMID: 22260155)

☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection

Journal Metrics: 22 of 84, 2nd Quartile (Sport Sciences) [2012]

Impact Factor: 2.082

31. Drollette, E. S., Shishido, T., **Pontifex, M. B.**, & Hillman, C. H. (2012). Maintenance of cognitive control during and after walking in preadolescent children. *Medicine and Science in Sports and Exercise*, *44*, 2017–2024. <https://doi.org/10.1249/MS.S.0b013e318258bcd5>. (PMID: 22525770)

☒ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection

Journal Metrics: 4 of 84, 1st Quartile (Sport Sciences) [2012]

Impact Factor: 4.475

30. Kamijo, K., Khan, N. A., **Pontifex, M. B.**, Scudder, M. R., Drollette, E. S., Raine, L. B., Evans, E. M., Castelli, D. M., & Hillman, C. H. (2012). The relation of adiposity to cognitive control and scholastic achievement in preadolescent children. *Obesity*, 20, 2406-2411. <https://doi.org/10.1038/oby.2012.112>. (PMID: 22546743)  
☒ Research Design    ☐ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 38 of 122, 2nd Quartile (Endocrinology & Metabolism); 12 of 76, 1st Quartile (Nutrition & Dietetics) [2012]    Impact Factor: 3.922
29. Kamijo, K., **Pontifex, M. B.**, Khan, N. A., Raine, L. B., Scudder, M. R., Drollette, E. S., Evans, E. M., Castelli, D. M., & Hillman, C. H. (2012). The association of childhood obesity to neuroelectric indices of inhibition. *Psychophysiology*, 49, 1361-1371. <https://doi.org/10.1111/j.1469-8986.2012.01459.x>. (PMID: 22913478)  
☒ Research Design    ☐ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 103 of 252, 2nd Quartile (Neurosciences); 24 of 80, 2nd Quartile (Physiology); 17 of 75, 1st Quartile (Psychology) [2012]    Impact Factor: 3.261
28. Kamijo, K., **Pontifex, M. B.**, Khan, N., Raine, L., Scudder, M., Drollete, E., Evans, E., Castelli, D., & Hillman, C. H. (2012). The negative association of childhood obesity to the cognitive control of action monitoring. *Cerebral Cortex*, 24, 654-662. <http://doi.org/10.1093/cercor/bhs349>. (PMID: 23146965)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 24 of 252, 1st Quartile (Neurosciences) [2012]    Impact Factor: 6.828
27. **Pontifex, M. B.**, Broglio, S. P., Drollette, E. S., Scudder, M. R., Johnson, C. R., O'Connor, P., & Hillman, C. H. (2012). The relation of mild traumatic brain injury to chronic lapses of attention. *Research Quarterly for Exercise and Sport*, 83, 553-559. <https://doi.org/10.5641/027013612804582605>. (PMID: 23367818)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 55 of 75, 3rd Quartile (Psychology); 51 of 83, 3rd Quartile (Sport Sciences) [2012]    Impact Factor: 1.108
26. **Pontifex, M. B.**, Scudder, M. R., Drollette, E. S., & Hillman, C. H. (2012). Fit and vigilant: The relationship between poorer aerobic fitness and failures in sustained attention during preadolescence. *Neuropsychology*, 26, 407-413. <https://doi.org/10.1037/a0028795>. (PMCID: PMC3390762)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 85 of 252, 2nd Quartile (Neurosciences); 13 of 75, 1st Quartile (Psychology) [2012]    Impact Factor: 3.579
25. Scudder, M. R., Drollette, E. S., **Pontifex, M. B.**, & Hillman, C. H. (2012). Neuroelectric indices of goal maintenance following a single bout of physical activity. *Biological Psychology*, 89, 528-531. <https://doi.org/10.1016/j.biopsycho.2011.12.009>. (PMID: 22200656)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 12 of 49, 1st Quartile (Behavioral Sciences); 15 of 75, 1st Quartile (Psychology) [2012]    Impact Factor: 3.399
24. Themanson, J. R., Rosen, P. J., **Pontifex, M. B.**, Hillman, C. H., & McAuley, E. (2012). Alterations in error-related brain activity and post-error behavior over time. *Brain and Cognition*, 80, 257-265. <https://doi.org/10.1016/j.bandc.2012.07.003>. (PMID: 22940400)  
☒ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 131 of 252, 3rd Quartile (Neurosciences) [2012]    Impact Factor: 2.823

Started at Michigan State University — Spring 2012

2011

23. Chaddock, L., **Pontifex, M. B.**, Hillman, C. H., & Kramer, A. F. (2011). A review of the relation of fitness and physical activity to brain structure and brain function in children. *Journal of the International Neuropsychological Society*, 17, 1-11. <https://doi.org/10.1017/S1355617711000567>. (PMID: 22040896)  
☒ Drafted Manuscript    ☒ Revised Manuscript  
 Journal Metrics: 71 of 192, 2nd Quartile (Clinical Neurology); 122 of 244, 2nd Quartile (Neurosciences); 48 of 130, 2nd Quartile (Psychiatry); 22 of 75, 2nd Quartile (Psychology) [2011]    Impact Factor: 2.759
22. Hillman, C. H., **Pontifex, M. B.**, Motl, R. W., O'Leary, K. C., Johnson, C. R., Scudder, M. R., Raine, L. B., & Castelli, D. M. (2011). From ERPs to academics. *Developmental Cognitive Neuroscience*, 25, S90-S98. <https://doi.org/10.1016/j.dcn.2011.07.004>. (PMCID: PMC3295229)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 109 of 252, 2nd Quartile (Neurosciences) [2012]    Impact Factor: 3.16
21. Kamijo, K., **Pontifex, M. B.**, O'Leary, K. C., Scudder, M. R., Wu, C., Castelli, D. M., & Hillman, C. H. (2011). The effects of an afterschool physical activity program on working memory in preadolescent children. *Developmental Science*, 14, 1046-1058. <https://doi.org/10.1111/j.1467-7687.2011.01054.x>. (PMCID: PMC3177170)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 7 of 68, 1st Quartile (Psychology Developmental); 7 of 84, 1st Quartile (Psychology Experimental) [2011]    Impact Factor: 3.888
20. O'Leary, K. C., **Pontifex, M. B.**, Scudder, M. R., Brown, M. L., & Hillman, C. H. (2011). The effects of single bouts of aerobic exercise, videogame play, and exergaming on cognitive control. *Clinical Neurophysiology*, 122, 1518-1525. <https://doi.org/10.1016/j.clinph.2011.01.049>. (PMID: 21353635)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☐ Data Collection  
 Journal Metrics: 46 of 192, 1st Quartile (Clinical Neurology); 93 of 244, 2nd Quartile (Neurosciences) [2011]    Impact Factor: 3.406
19. **Pontifex, M. B.**, Raine, L. B., Johnson, C. R., Chaddock, L., Voss, M. W., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2011). Cardiorespiratory fitness and the flexible modulation of cognitive control in preadolescent children. *Journal of Cognitive Neuroscience*, 23, 1332-1345. <https://doi.org/10.1162/jocn.2010.21528>. (PMID: 20521857)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 38 of 244, 1st Quartile (Neurosciences) [2011]    Impact Factor: 5.175
18. Themanson, J. R., **Pontifex, M. B.**, Hillman, C. H., & McAuley, E. (2011). The relation of self-efficacy and error-related self-regulation. *International Journal of Psychophysiology*, 80, 1-10. <https://doi.org/10.1016/j.ijpsycho.2011.01.005>. (PMCID: PMC3070070)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 164 of 244, 3rd Quartile (Neurosciences); 38 of 79, 2nd Quartile (Physiology); 34 of 75, 2nd Quartile (Psychology) [2011]    Impact Factor: 2.144
17. Voss, M., Chaddock, L., Kim, J., VanPatter, M., **Pontifex, M. B.**, Raine, L. B., Cohen, N., Hillman, C. H., & Kramer, A. F. (2011). Aerobic fitness is associated with greater efficiency of the network underlying cognitive control in preadolescent children. *Neuroscience*, 199, 166-176. <https://doi.org/10.1016/j.neuroscience.2011.10.009>. (PMCID: PMC3237764)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 94 of 244, 2nd Quartile (Neurosciences) [2011]    Impact Factor: 3.38
16. Wu, C. T., **Pontifex, M. B.**, Raine, L. B., Chaddock, L., Voss, M. W., Kramer, A. F., & Hillman, C. H. (2011). Aerobic fitness and response variability in preadolescent children performing a cognitive control task. *Neuropsychology*, 25, 333-341. <https://doi.org/10.1037/a0022167>. (PMCID: PMC3086950)  
☒ Research Design    ☐ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 67 of 244, 2nd Quartile (Neurosciences); 13 of 75, 1st Quartile (Psychology) [2011]    Impact Factor: 3.816

## 2010

15. Chaddock, L., Erickson, K. I., Prakash, R. S., Kim, J. S., Voss, M. W., VanPatter, M., **Pontifex, M. B.**, Raine, L. B., Konkel, A., Hillman, C. H., Cohen, N. J., & Kramer, A. F. (2010). A neuroimaging investigation of the association between aerobic fitness, hippocampal volume and memory performance in preadolescent children. *Brain Research*, 1358, 172-183. <https://doi.org/10.1016/j.brainres.2010.08.049>. (PMID: 20735996)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 128 of 244, 3rd Quartile (Neurosciences) [2010]    Impact Factor: 2.623
  
14. Chaddock, L., Erickson, K. I., Prakash, R. S., VanPatter, M., Voss, M. W., **Pontifex, M. B.**, Raine, L. B., Hillman, C. H., Kramer, A. F. (2010). Basal ganglia volume is associated aerobic fitness in preadolescent children. *Developmental Neuroscience*, 32, 249-256. <https://doi.org/10.1159/000316648>. (PMID: 20693803)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 21 of 38, 3rd Quartile (Developmental Biology); 122 of 239, 3rd Quartile (Neurosciences) [2010]    Impact Factor: 2.707
  
13. Kamijo, K., O'Leary, K. C., **Pontifex, M. B.**, Themanson, J. R., & Hillman, C. H. (2010). The relation of aerobic fitness to neuroelectric indices of cognitive and motor task preparation. *Psychophysiology*, 47, 814-821. <https://doi.org/10.1111/j.1469-8986.2010.00992.x>. (PMCID: PMC2896995)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 95 of 239, 2nd Quartile (Neurosciences); 25 of 78, 2nd Quartile (Physiology); 14 of 73, 1st Quartile (Psychology) [2010]    Impact Factor: 3.263
  
12. **Pontifex, M. B.**, Scudder, M. R., Brown, M., O'Leary, K. C., Wu, C., Themanson, J. R., & Hillman, C. H. (2010). On the number of trials necessary for stabilization of error-related brain activity across the lifespan. *Psychophysiology*, 47, 767-773. <https://doi.org/10.1111/j.1469-8986.2010.00974.x>. (PMID: 20230502)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 95 of 239, 2nd Quartile (Neurosciences); 25 of 78, 2nd Quartile (Physiology); 14 of 73, 1st Quartile (Psychology) [2010]    Impact Factor: 3.263

## 2009

11. Broglio, S. P., **Pontifex, M. B.**, O'Connor, P., & Hillman, C. H. (2009). The persistent effects of concussion on neuroelectric indices of attention. *Journal of Neurotrauma*, 26, 1463-1470. <https://doi.org/10.1089/neu.2008.0766>. (PMID: 19331519)  
☒ Research Design    ☒ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 5 of 22, 1st Quartile (Critical Care Medicine); 22 of 167, 1st Quartile (Clinical Neurology); 50 of 231, 1st Quartile (Neurosciences) [2009]    Impact Factor: 4.255
  
10. Hillman, C. H., Buck, S. M., Themanson, J. R., **Pontifex, M. B.**, & Castelli, D. (2009). Aerobic fitness and cognitive development: Event-related brain potential and task performance indices of executive control in preadolescent children. *Developmental Psychology*, 45, 114-129. <https://doi.org/10.1037/a0014437>. (PMID: 19209995)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 8 of 59, 1st Quartile (Psychology, Developmental) [2009]    Impact Factor: 3.555
  
9. Hillman, C. H., **Pontifex, M. B.**, Raine, L. B., Castelli, D. M., Hall, E. E., & Kramer, A. F. (2009). The effect of acute treadmill walking on cognitive control and academic achievement in preadolescent children. *Neuroscience*, 159, 1044-1054. <https://doi.org/10.1016/j.neuroscience.2009.01.057>. (PMCID: PMC2667807)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 90 of 231, 2nd Quartile (Neurosciences) [2009]    Impact Factor: 3.292

8. **Pontifex, M. B.**, Hillman, C. H. & Polich, J. (2009). Age, physical fitness, and attention: P3a and P3b. *Psychophysiology*, 46, 379-387. <https://doi.org/10.1111/j.1469-8986.2008.00782.x>. (PMCID: PMC2763440)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 60 of 231, 2nd Quartile (Neurosciences); 16 of 75, 1st Quartile (Physiology); 11 of 71, 1st Quartile (Psychology) [2009]    Impact Factor: 3.926
  
7. **Pontifex, M. B.**, Hillman, C. H., Fernhall, B., Thompson, K. M., & Valentini, T. A. (2009). The effect of acute aerobic and resistance exercise on working memory. *Medicine and Science in Sports and Exercise*, 41, 927-934. <https://doi.org/10.1249/MSS.0b013e3181907d69>. (PMID: 19276839)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 2 of 73, 1st Quartile (Sport Sciences) [2009]    Impact Factor: 3.707
  
6. **Pontifex, M. B.**, O'Connor, P., Broglio, S. P., & Hillman, C. H. (2009). The association between mild traumatic brain injury history and cognitive control. *Neuropsychologia*, 47, 3210-3216. <https://doi.org/10.1016/j.neuropsychologia.2009.07.021>. (PMID: 19664646)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 6 of 49, 1st Quartile (Behavioral Sciences); 49 of 231, 1st Quartile (Neurosciences) [2009]    Impact Factor: 4.345

## 2008

5. **Pontifex, M. B.**, & Hillman, C. H. (2008). Neuroelectric measurement of cognition during aerobic exercise. *Methods*, 45, 271-278. <https://doi.org/10.1016/j.ymeth.2008.04.003>. (PMID: 18762137)  
☒ Drafted Manuscript    ☒ Revised Manuscript  
 Journal Metrics: 18 of 65, 2nd Quartile (Biochemical Research Methods); 100 of 275, 2nd Quartile (Biochemistry & Molecular Biology) [2008]    Impact Factor: 3.291
  
4. Themanson, J. R., Hillman, C. H., McAuley, E., Buck, S. M., Doerksen, S. E., Morris, K. S., & **Pontifex, M. B.** (2008). Self-efficacy effects on neuroelectric and behavioral indices of action monitoring in older adults. *Neurobiology of Aging*, 29, 1111-1122. <https://doi.org/10.1016/j.neurobiolaging.2007.01.004>. (PMCID: PMC2471871)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 3 of 36, 1st Quartile (Geriatrics & Gerontology); 21 of 221, 1st Quartile (Neurosciences) [2008]    Impact Factor: 5.959
  
3. Themanson, J. R., **Pontifex, M. B.**, & Hillman, C. H. (2008). Fitness and action monitoring: Evidence for improved cognitive flexibility in young adults. *Neuroscience*, 157, 319-328. <https://doi.org/10.1016/j.neuroscience.2008.09.014>. (PMCID: PMC2657808)  
☐ Research Design    ☐ Statistical Analysis    ☐ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 67 of 221, 2nd Quartile (Neurosciences) [2008]    Impact Factor: 3.556

## 2007

2. **Pontifex, M. B.**, & Hillman, C. H. (2007). Neuroelectric and behavioral indices of interference control during acute cycling. *Clinical Neurophysiology*, 118, 570-580. <https://doi.org/10.1016/j.clinph.2006.09.029>. (PMID: 17095295)  
☒ Research Design    ☒ Statistical Analysis    ☒ Drafted Manuscript    ☒ Revised Manuscript    ☒ Data Collection  
 Journal Metrics: 53 of 146, 2nd Quartile (Clinical Neurology); 101 of 211, 2nd Quartile (Neurosciences) [2007]    Impact Factor: 2.468

2006

1. Hillman C. H., Motl, R. W., **Pontifex, M. B.**, Posthuma, D., Stubbe, J. H., Boomsma, D.I., & de Geus, E. J. C. (2006). Physical activity and cognitive function in a cross-section of younger and older community-dwelling individuals. *Health Psychology*, 25, 678-687. <https://doi.org/10.1016/j.ijpsycho.2005.04.009>. (PMID: 17100496)

☐ Research Design

☒ Statistical Analysis

☐ Drafted Manuscript

☒ Revised Manuscript

☐ Data Collection

Journal Metrics: 7 of 60, 1st Quartile (Psychology) [2006]

Impact Factor: 3.693

Manuscripts Submitted for Review:

Non-Peer Reviewed Commentary and Scholarly Reports:

3. **\*McGowan, A. L., & Pontifex, M. B.** (2019). A year in review: Physical activity and cognition — 2018. In Eliakim, A., Falk, B., Armstrong, N., Baptista, F., Behm, D. G., Dror, N., Faigenbaum, A. D., Janz, K. F., Jürimäe, J., McGowan, A. L., Nemet, D., Pianosi, P. T., Pontifex, M. B., Radom-Aizik, S., Rowland, T., & Rowlands, A. V. (2019). Expert's choice: 2018's most exciting research in the field of pediatric exercise science. *Pediatric Exercise Science*, 31, 1-27. <https://doi.org/10.1123/pes.2019-010>.

☒ Drafted Manuscript

☒ Revised Manuscript

2. **Pontifex, M. B., & \*Chandler, M. C.** (2019). Commentary on the use of accelerometry in individuals at risk for depression. *Submitted to industry funder*.

☒ Drafted Manuscript

☒ Revised Manuscript

1. Tremblay, M. S., Vanderloo, L. M., Cairney, J., Choquette, L. Collet, J. P., Davies, T., Faulkner, G., Gitimoghadam, M., Glossop, E., Goldowitz, D., Gunnell, K. E., Kwan, S., Leo, J., Markham, C., McManus, A., Moore, S., **Pontifex, M. B.**, Walsh, J., & Zwicker, J. G. (2018). Expert statement on physical activity and brain health in children and youth. *ParticipACTION*. Permalink.

☒ Drafted Manuscript

☒ Revised Manuscript

Book Chapters:

4. **\*Coffman, C. A., Covassin, T., & Pontifex, M. B.** (2024). More than a bump to the head: An overview of the long-term effects of concussion. *Psychology of Learning and Motivation*, 81. <https://doi.org/10.1016/bs.plm.2024.06.003>.

☒ Drafted Manuscript

☒ Revised Manuscript

Journal Metrics: 69 of 91, 4th Quartile (Psychology, Experimental) [2021]

Impact Factor: 2.056

3. Kamijo, K., **\*McGowan, A. L., & Pontifex, M. B.** (2017). Effects of physical activity on cognition in children and adolescents. In M. Anshel, & S. Petruzzello (Eds.). *APA handbook of sport and exercise psychology*.

☒ Drafted Manuscript

☒ Revised Manuscript

2. Hillman, C. H., Kamijo, K., & **Pontifex, M. B.** (2012). The relation of ERP indices of exercise to brain health and cognition. In H. Boecker, C. H. Hillman, L. Scheef, & H. K. Struder (Eds.). *Functional neuroimaging in exercise and sport sciences*, (pp. 419-446). Springer: New York, NY. [https://doi.org/10.1007/978-1-4614-3293-7\\_18](https://doi.org/10.1007/978-1-4614-3293-7_18).

☒ Drafted Manuscript

☒ Revised Manuscript

1. Hillman, C. H., **Pontifex, M. B.**, & Themanson, J. R. (2009). Acute aerobic exercise effects on event-related brain potentials. In T. McMorris, P. D. Tomporowski, & M. Audiffren (Eds.). *Exercise and cognition*, (pp. 161-180). Wiley Publications: Indianapolis, IN. <https://doi.org/10.1002/9780470740668.ch8>.

☒ Drafted Manuscript

☒ Revised Manuscript



## Invited Lectures and Symposia:

## International/National

21. **Pontifex, M. B.** (2021). Navigating student apathy in a large enrollment online asynchronous environment. AKA Undergraduate Education Pre-workshop. *Annual Leadership Workshop of the American Kinesiology Association.*, Virtual Format.
20. **Pontifex, M. B.** (2019). Keynote Address: Physical activity and brain health. Golden Horseshoe Pediatric Exercise Science Group. *Brock University*, Canada.
19. **Pontifex, M. B.** (2017). What if don't want to exercise today: The association between bouts of physical activity and cognition. Symposium: Psychophysiological insights into the association between health behaviors and cognition (Chair: M. B. Pontifex). *Annual meeting of the North American Society for the Psychology of Sport and Physical Activity*, San Diego, CA.
18. **Pontifex, M. B.** (2016). Flash Talk: What if I don't want to exercise today: Implications for cognition. *Annual meeting of the Society for Psychophysiological Research*, Minneapolis, MN.
17. **Pontifex, M. B.** (2016). From chronic to acute, how physical activity behaviors influence cognition in children. *Annual meeting of the Society for Psychophysiological Research*, Minneapolis, MN.
16. **Pontifex, M. B.** (2016). Keynote Address: Physical activity induced modulations in cognition. *North American Society for Pediatric Exercise Medicine biennial conference*, Knoxville, TN.
15. **Pontifex, M. B.** (2015). Physical activity induced modulations of inhibitory control. *Annual meeting of the American College of Sports Medicine*, San Diego, CA.
14. **Pontifex, M. B.** (2014). Physical activity induced modulations of cognitive control in preadolescent children. *2014 Project Report of Physical Education*, Ministry of Science and Technology of the Republic of China. Taipei, Taiwan.
13. **Pontifex, M. B.,** Hillman, C. H., Fernhall, B., Thompson, K. M., & Valentini, T. A. (2008). Behavioral correlates of working memory following acute aerobic and resistance exercise. *Physical Activity and Cognition Seminar, Annual meeting of the American College of Sports Medicine*, Indianapolis, IN.

## Regional

12. **Pontifex, M. B.** (2016). Keynote Address: From chronic to acute, the relation between physical activity behaviors and cognition. *Neuroscience of Attention Conference*, Institute for Mind and Brain and the University of South Carolina. Columbia, SC.
11. **Pontifex, M. B.** (2015). Keynote Address: Physical activity induced modulations in cognitive control. *Physical Activity and Cognitive Health Workshop*, NeuroDevNet. Toronto, Canada.
10. **Pontifex, M. B.** (2015). Keynote Address: Physical activity and cognition. Relationship between health, fitness and learning outcomes. *Regional Healthy School Physical Activity Summit*, MidAmerica Center for Public Health Practice at UIC School of Public Health in Chicago and the Cook County Department of Public Health. Chicago, IL.
9. **Pontifex, M. B.** (2012). Chasing causation: Proving sport matters. Panel with D. Hartmann & M. Massoglia. *LA84 Foundation Summit*, Los Angeles, CA.

## Institutional

8. **Pontifex, M. B.** (2023). Keynote Address: Physical activity and brain health. *Damien Moore Memorial Lecture sponsored by the Department of Health, Exercise Science, and Recreation Management*, The University of Mississippi. Oxford, MS.
7. **Pontifex, M. B.** (2022). Keynote Address: Physical activity and brain health. *Brain Awareness Week sponsored by the Departments of Neuroscience, Psychology, Kinesiology, and the Dana Foundation*, Hope College, Holland, MI.
6. **Pontifex, M. B.** (2015). Physical activity and mental health. *Clinical Psychology Colloquium*, Michigan State University. East Lansing, MI.
5. **Pontifex, M. B.** (2014). Physical activity induced modulations of cognitive control. *Sport Psychology Colloquium*, National Taiwan Normal University. Taipei, Taiwan.
4. **Pontifex, M. B.** (2014). Physical activity induced modulations of cognitive control in preadolescent children. *Psychology Colloquium*, Binghamton University. Binghamton, NY.

3. **Pontifex, M. B.** (2014). Physical activity induced modulations of cognitive control. *Cognitive Science Forum*, Michigan State University. East Lansing, MI.
2. **Pontifex, M. B.** (2010). Physical activity and the modulation of cognitive control in preadolescent children. *Advances in Sensory and Developmental Neuroscience Seminar*, University of Illinois at Urbana-Champaign. Urbana, IL.
1. **Pontifex, M. B.** (2007). The Relationship of age and fitness to attentional orienting and task difficulty. *Psychology of Physical Activity Seminar*, Department of Kinesiology and Community Health. Urbana, IL.

## Abstracts:

2024

82. Cline, T. L., Raine, L. B., **Pontifex, M. B.**, Drollette, E., Cole, Z., Curtiss, J., Kramer, A. F., Khan, N., & Hillman, C. H. (2024). The demographic determinants of childhood aerobic fitness, body composition, and brain function: A quantitative assessment. *Medicine and Science in Sports and Exercise*.

2023

81. Reiche, E. T., \*Chandler, M. C., \*Coffman, C. A., Genoese F. M., **Pontifex, M. B.**, & Baez, S. E. (2023). No difference in emotional response between threatening sport and non-sport images in individuals after Anterior Cruciate Ligament reconstruction. *Medicine and Science in Sports and Exercise*.

Promoted to Professor at Michigan State University — Spring 2023

2022

80. \*Bullard, L. E., \*Coffman, C. A., \*Brooks, A. C., \*Honeycutt, B. M., & **Pontifex, M. B.** (2022). The effect of vibration therapy on neuroelectric and behavioral indices of inhibition in children with ADHD. *Psychophysiology*, 59(S2), S65.
79. \*Coffman, C. A., & **Pontifex, M. B.** (2022). Validation of a wireless and mobile EEG system with minimal electrode preparation. *Psychophysiology*, 59(S2), S69.
78. \*Ellison, O. K., \*Henning, D. A., Hauck, J. L., Paneth, N., Pfeiffer, K. A., & **Pontifex, M. B.** (2022). The relationship between physical activity, sedentary behavior, and quality of life in adults with Cerebral Palsy. *Medicine and Science in Sports and Exercise*, 54(S).

2021

77. \*Chandler, M. C., \*Ellison, O. K., \*McGowan, A. L., Fenn, K. M., & **Pontifex, M. B.** (2021). Physical activity and sleep moderate the relationship between stress and screen time in college-aged adults. *Medicine and Science in Sports and Exercise*, 53(8S), 307.

2020

76. \*Chandler, M. C., McRoy, K. Z., Goodwin, S., Bowles, R. P., Bingham, G. E., Gerde, H. K., & **Pontifex, M. B.** (2020). Preschoolers' self-regulation, fine motor skills, and performance on a standardized literacy assessment. *Medicine and Science in Sports and Exercise*, 52(7S), 617.
75. \*Ellison, O. K., \*Ham, M. S., \*Chandler, M. C., **Pontifex, M. B.**, & \*McGowan, A. L. (2020). Fitness related differences and neuroelectric indices of arithmetic approximation in college- aged adults. *Medicine and Science in Sports and Exercise*, 52(7S), 615-616.
74. \*McGowan, A. L., Mansour, G. M., Ferguson, D. P., Gerde, H. K., Pfeiffer, K. A., & **Pontifex, M. B.** (2020). Preschoolers demonstrate similar learning and enhanced on-task behavior following physically active lessons on emerging numeracy skills. *Medicine and Science in Sports and Exercise*, 52(7S), 608.



## 2019

73. \*Chandler, M. C., Ferguson, D. P., & **Pontifex, M. B.** (2019). Carbohydrate mouth rinse does not affect neuroelectric and behavioral indices of cognition. *Psychophysiology*, 56, S99.
72. \*Chandler, M. C., \*McGowan, A. L., Mathewson, K. E., Scavuzzo, C. J., & **Pontifex, M. B.** (2019). Aerobic fitness does not predict acquisition of hippocampal-dependent memory in college-aged adults. *Journal of Sport and Exercise Psychology*, 41, S57.
71. \*McGowan, A. L., \*Chandler, M. C., & **Pontifex, M. B.** (2019). Fitness modulates behavioral not pupillometric indices of arithmetic processing in college-aged adults. *Psychophysiology*, 56, S73.

## 2018

70. \*Chandler, M. C., \*McGowan, A. L., Brascamp, J. W., & **Pontifex, M. B.** (2018). Exploring the relationship between aerobic fitness and activation of the locus-coeruleus. *Journal of Sport and Exercise Psychology*, 40, S82.
69. \*Chandler, M. C., \*McGowan, A. L., Hampton Wray, A., Payne, B. R., & **Pontifex, M. B.** (2018). The relationship between aerobic fitness and neuroelectric indices of reading in college-aged adults. *Psychophysiology*, 55, S109.
68. Delli Paoli, A. G., Smith, A. L., **Pontifex, M. B.**, & Moser, J. S. (2018). Child affective and working memory responses to social exclusion differ by aerobic fitness Level. *Journal of Sport and Exercise Psychology*, 40.
67. \*McGowan, A. L., \*Chandler, M. C., Brascamp, J. W., & **Pontifex, M. B.** (2018). Investigating the role of tonic and phasic locus-coeruleus activation in modulating cognition following acute exercise. *Journal of Sport and Exercise Psychology*, 40, S106.
66. \*McGowan, A. L., \*Chandler, M. C., Brascamp, J. W., & **Pontifex, M. B.** (2018). The effect of acute exercise on pupillometric indices of locus-coeruleus activation in college-aged young adults. *Psychophysiology*, 55, S35.
65. Moore, S., Vanderloo, L. M., Cairney, J., McManus, A., Choquette, L., Collet, J. P., Davies, T., Faulkner, G., Gitimoghdam, M., Glossop, E., Goldowitz, D., Gunnell, K. E., Kwan, S., Leo, J., Markham, C., **Pontifex, M. B.**, Walsh, J., Zwicker, J. G., & Tremblay, M. S. (2018). Physical Activity and Brain Health in Children and Youth: Findings from the 2018 ParticipACTION Expert Panel. *Pediatric Exercise Science*.

Tenured at Michigan State University — Spring 2018

## 2017

64. Drollette, E. S., **Pontifex, M. B.**, Raine, L. B., Scudder, M. R., Moore, R. D., Kao, S-C., Castelli, D. M., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2017). Effects of the FITKids randomized controlled trial on cognitive control and conflict monitoring in children. *Medicine and Science in Sports and Exercise*, 49, S1884.
63. \*Gwizdala, K. L., Weng, T. B., Voss, M. W., & **Pontifex, M. B.** (2017). The effects of single bouts of exercise on cerebral blood flow in preadolescent children. *Journal of Sport and Exercise Psychology*, 39, S250.
62. \*McGowan, A. L., Bretzin, A. C., Savage, J. L., LaFavor, M., Petit, K. M., Beidler, E., \*Parks, A. C., Covassin, T. M., & **Pontifex, M. B.** (2017). Evidence for differential effects of sports-related concussion on subtypes of cognitive flexibility. *Journal of Sport and Exercise Psychology*, 39, S281.
61. Oluyedun, O. A., Smith, A. L., **Pontifex, M. B.**, McAlister, A., & Hauck, J. L. (2017). Positive illusory bias in the physical domain and cognitive functioning among children with ADHD symptoms. *Journal of Sport and Exercise Psychology*, 39, S291.
60. \*Parks, A. C., \*Delli Paoli, A. G., Schroder, H. S., Moser, J. S., & **Pontifex, M. B.** (2017). Acute physical activity modulations of attentional processes and error-monitoring in high- and low-anxious females. *Journal of Sport and Exercise Psychology*, 39, S294.
59. Raine, L. B., Khan, N. A., Drollette, E. S., **Pontifex, M. B.**, Kramer, A. F., & Hillman, C. H. (2017). Obesity, visceral adipose tissue, and cognition in childhood. *Medicine and Science in Sports and Exercise*, 49, S1115.

## 2016

58. \*Delli Paoli, A. G., \*Parks, A. C., Schroder, H. S., Moser, J. S., & **Pontifex, M. B.** (2016). Activity-based modulation of error-preceding and -monitoring in female worriers. *Psychophysiology*, 53, S44.
57. Drollette, E. S., Raine, L. R., Scudder, M. R., Kao, S-C., Westfall, D. R., **Pontifex, M. B.**, Khan, N. A., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2016). Physical activity for the brain, but for whom?. *Psychophysiology*, 53, S69.
56. Gammon, C., Pfeiffer, K. A., Fenn, K., & **Pontifex, M. B.** (2016). Preschoolers' inhibitory control: Associations with physical activity and sleep. *Medicine and Science in Sports and Exercise*, 48, S3750.
55. \*Gwizdala, K. L., \*McGowan, A. L., Miskovic, V., Laszlo, S., & **Pontifex, M. B.** (2016). An investigation of fully automated approaches for the selection of eye blink ICA components. *Psychophysiology*, 53, S36.
54. Kao, S-C., Parks, A., Komisarz, C., Neufeld, M., **Pontifex, M. B.**, & Hillman, C. H. (2016). Cardiorespiratory and muscular fitness is related to working memory and mathematics in preadolescent children. *Medicine and Science in Sports and Exercise*, 48, S3614.
53. \*Parks, A. C., \*Delli Paoli, A. G., Schroder, H. S., Moser, J. S., & **Pontifex, M. B.** (2016). Differential effects of a single bout of physical activity on attentional processes in high- and low-anxious individuals. *Psychophysiology*, 53, S35.
52. Vasold, K. L., \*Parks, A. C., Phelan, D. M. L., **Pontifex, M. B.**, & Pivarnik, J. M. (2016). Reliability and criterion validity of RJL, Omron, and Tanita bioelectric impedance analysis. *Medicine and Science in Sports and Exercise*, 48, S3751.

## 2015

51. Drollette, E. S., Raine, L. B., Scudder, M. R., **Pontifex, M. B.**, Moore, R. D., Kao, S-C., Pindus, D. M., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2015). Dimorphic sex differences in conflict monitoring and the flexible modulation of cognitive control in young children: An ERP investigation. *Psychophysiology*, 52, S49.
50. Gwizdala, K., Lamkin, S. R., Parks, A. C., Henning, D. A., Billinger, M., Brunner, C., & **Pontifex, M. B.** (2015). Eye blink artifact removal using ICA may be killing your findings: How variability in ICA solutions influence stimulus-locked ERPs. *Psychophysiology*, 52, S78.
49. Henning, D. A., Parks, A. C., Lamkin, S. R., Schroder, H. S., Moser, J. S., & **Pontifex, M. B.** (2015). Activity-based modulation of error-related brain activity in high-anxious individuals. *Psychophysiology*, 52, S45.
48. Parks, A. C., Berger, N. I., Lamkin, S. R., Pineault, L. J., Ingersoll, B. R., & **Pontifex, M. B.** (2015). Exercise induced maintenance of attentional processes in preadolescent children. *Psychophysiology*, 52, S45.
47. Parks, A. C., Fenn, K. M., Pfeiffer, K. A., Fleck, C. R., & **Pontifex, M. B.** (2015). Differences in long-term memory consolidation as a function of heart rate intensity. *Journal of Sport and Exercise Psychology*, 37, S135.
46. Scudder, M. R., Drollette, E. S., Raine, L. B., **Pontifex, M. B.**, Moore, R. D., Kao, S-C., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2015). The influence of socioeconomic factors on neuroelectric, cognitive, and academic achievement in preadolescent children. *Psychophysiology*, 52, S50.

## 2014

45. \*Delli Paoli, A. G., Smith, A. L., & **Pontifex, M. B.** (2014). Psychological effects of ostracism following an acute bout of physical activity. *Journal of Sport and Exercise Psychology*, 36, S86.
44. Drollette, E. S., Scudder, M. R., Moore, R. D., Raine, L. B., **Pontifex, M. B.**, & Hillman, C. H. (2014). The relation of sex differences to fitness and working memory in preadolescent children. *Medicine and Science in Sports and Exercise*, 46, S85.
43. \*Henning, D. A., \*Parks, A. C., Kamijo, K., & **Pontifex, M. B.** (2014). Single bouts of physical activity sustain neural inhibition. *Journal of the International Neuropsychological Society*, 20, S231.
42. \*Parks, A. C., Moore, R. D., Broglio, T. M., Covassin, C. H., & **Pontifex, M. B.** (2014). Cognitive load induced variability in behavior and neurocognition in young adults with a history of concussion. *Journal of the International Neuropsychological Society*, 20, S44.
41. \*Parks, A. C., Phelan, D. M. L., Ravizza, S. M., & **Pontifex, M. B.** (2014). The association of adipose tissue to cognitive flexibility in healthy young adults. *Medicine and Science in Sports and Exercise*, 46, S170.

## 2013

40. \*Parks, A. C., Moore, R. D., Broglio, S. P., Covassin, T., Hillman, C. H., & **Pontifex, M. B.** (2013). Cognitive load induced response variability in young adults with a history of concussion. *Medicine and Science in Sports and Exercise*, 45.
39. **Pontifex, M. B.**, \*Parks, A. C., O'Neal, P. C., \*Egner, A. R., Warning, J. T., Fenn, K. M., & Pfeiffer, K. A. (2013). Poorer aerobic fitness predicts reduced integrity of cognition across multiple memory systems. *Medicine and Science in Sports and Exercise*, 45.

## 2012

38. Drollette, E. S., **Pontifex, M. B.**, Scudder, M. R., Raine, L. B., Saliba, B. J., & Hillman, C. H. (2012). Acute exercise modulates P3 amplitude for children who need it most: An ERP study of individual differences using the flanker task. *Psychophysiology*, 49, S89.
37. Kamijo, K., **Pontifex, M. B.**, Khan, N. A., Raine, L. B., Scudder, M. R., Drollette, E. S., Evans, E. M., Castelli, D. M., & Hillman, C. H. (2012). Childhood obesity and action monitoring. *Psychophysiology*, 49, S89.
36. Khan, N. A., Raine, L. B., Drollette, E., Scudder, M. R., **Pontifex, M. B.**, Castelli, D. M., Hillman, C. H., Donovan, S. M., & Evans, E. M. (2012). Television viewing and intake of added sugars are related to central adiposity in prepubertal children. *The Journal of the Federation of American Societies for Experimental Biology*, 26, 369.5.
35. Moore, R. D., Wu, C. T., **Pontifex, M. B.**, Broglio, S. P., & Hillman, C. H. (2012). The persistent influence of concussion on neuroelectric function and response variability. *Psychophysiology*, 49, S88.
34. **Pontifex, M. B.**, Kamijo, K., Scudder, M. R., Raine, L. B., Khan, N. A., Evans, E. M., Castelli, D. M., & Hillman, C. H. (2012). The differential association between adiposity, fitness, and cognitive control in preadolescent children. *Psychophysiology*, 49, S100.
33. **Pontifex, M. B.**, Saliba, B. J., Raine, L. B., Picchietti, D. L., & Hillman, C. H. (2012). Acute exercise enhances inhibition in children with ADHD. *Medicine and Science in Sports and Exercise*, 44, S105.

Started at Michigan State University — Spring 2012

## 2011

32. Chien-Ting, W., **Pontifex, M. B.**, O'Leary, K. C., Scudder, M. R., Raine, L. B., Johnson, C. R., & Hillman, C. H. (2011). Aerobic fitness and intra-individual variability on neurocognitive function in preadolescent children. *Medicine and Science in Sports and Exercise*, 43, S174.
31. Kamijo, K., **Pontifex, M. B.**, O'Leary, K. C., Scudder, M. R., Chien-Ting, W., Castelli, D. M., & Hillman, C. H. (2011). An afterschool physical activity program improves working memory in preadolescent children. *Medicine and Science in Sports and Exercise*, 43, S175.
30. Kamijo, K., **Pontifex, M. B.**, Scudder, M. R., Drollette, E. S., Khan, N. A., Castelli, D. M., Evans, E. M., & Hillman, C. H. (2011). Body mass and inhibitory control in preadolescent children. *Psychophysiology*, 48, S56.
29. Khan, N. A., Richey, A. L., Drollette, E. S., Scudder, M. R., **Pontifex, M. B.**, Castelli, D. M., Hillman, C. H., & Evans, E. M. (2011). Maternal level of education is negatively related to television watching and adiposity in prepubertal children. *Journal of Nutrition Education and Behavior*, 43, S33.
28. **Pontifex, M. B.**, O'Leary, K. C., Raine, L. B., Chien-Ting, W., Drollette, E. S., Castelli, D. M., & Hillman, C. H. (2011). The beneficial effects of fitness training on neurocognitive function in preadolescent children. *Medicine and Science in Sports and Exercise*, 43, S176.
27. Raine, L. B., **Pontifex, M. B.**, Scudder, M. R., O'Leary, K. C., Wu, C. T., Drollette, E. S., Castelli, D. M., & Hillman, C. H. (2011). The FITKIDS Trial: The beneficial effects of a 9- month activity intervention on preadolescent cognition. *Psychophysiology*, 48, S75.
26. Scudder, M. R., Drollette, E. S., **Pontifex, M. B.**, & Hillman, C. H. (2011). A single bout of aerobic exercise improves goal maintenance during a cognitive control task. *Medicine and Science in Sports and Exercise*, 43, S175.

25. Scudder, M. R., Drollette, E. S., **Pontifex, M. B.**, Paras, F. N., & Hillman, C. H. (2011). Neuroelectric indices of goal maintenance following moderate aerobic exercise. *Psychophysiology*, 48, S56.

2010

24. Chaddock, L., Erickson, K. I., Prakash, R. S., Kim, J. S., Voss, M. W., VanPatter, M., **Pontifex, M. B.**, Raine, L. B., Konkel, A., Hillman, C. H., Cohen, N. J., & Kramer, A. F. (2010). A Neuroimaging investigation of the association between aerobic fitness, hippocampal volume and memory performance in preadolescent children. *Journal of Cognitive Neuroscience*, S82.
23. O'Leary, K. C., Scudder, M. R., Brown, M. L., Gilbert, T. R., Flynn, Z. A., **Pontifex, M. B.**, & Hillman, C. H. (2010). The effects of single bouts of aerobic exercise, videogame play, and exergaming on attentional control. *Psychophysiology*, 47, S42.
22. **Pontifex, M. B.**, O'Leary, K. C., Johnson, C. R., Scudder, M. R., Raine, L. B., Motl, R. W., Castelli, D. M., & Hillman, C. H. (2010). From ERPs to academics. *Psychophysiology*, 47, S42.
21. Wu, C., **Pontifex, M. B.**, O'Leary, K. C., Scudder, M. R., Raine, L. B., Johnson, C. R., & Hillman, C. H. (2010). Aerobic fitness and intra-individual variability in preadolescent children. *Psychophysiology*, 47, S43.

2009

20. Kamijo, K., O'Leary, K., **Pontifex, M. B.**, Themanson, J. R., & Hillman, C. H. (2009). Aerobic fitness improves cognitive task preparation. *Psychophysiology*, 46, S37.
19. **Pontifex, M. B.**, Raine, L. B., Chaddock, L., VanPatter, M., Voss, M. W., Kim, J. S., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2009). Fitness and the modulation of cognitive control in preadolescent children. *Psychophysiology*, 46, S37.
18. **Pontifex, M. B.**, Scudder, M. R., Brown, M., O'Leary, K. C., Wu, C., Themanson, J. R., & Hillman, C. H. (2009). Stabilization of error-related brain activity across the lifespan. *Psychophysiology*, 46, S37.
17. Themanson, J. R., Rosen, P. J., Ball, A. B., Cunningham, M. J., **Pontifex, M. B.**, Hillman, C. H., & McAuley, E. (2009). Investigating alternations in the error-related negativity and post-error behavioral improvements across time. *Psychophysiology*, 46, S92.
16. Themanson, J. R., Rosen, P. J., Cunningham, M. J., Ball, A. B., Clark, B. M., **Pontifex, M. B.**, Hillman, C. H., & McAuley, E. (2009). Distinguishing the relations between self-efficacy, personality, and indices of action monitoring. *Psychophysiology*, 46, S89.

2008

15. Broglio, S. P., Heo, S., O'Connor, P. M., **Pontifex, M. B.**, George, D., Johnson, C., Valentini, T., Hillman, C. H. (2008). The chronic effect of concussion on clinical neurocognition and neuroelectric indices of attention. *Medicine and Science in Sports and Exercise*, 40, S69.
14. O'Connor, P. M., Heo, S., **Pontifex, M. B.**, Broglio, S. P., Brown, M., Musuruana, R., & Hillman, C. H. (2008). Alterations in the cognitive control of action monitoring with a history of concussion. *Medicine and Science in Sports and Exercise*, 40, S69.
13. **Pontifex, M. B.**, Hillman, C. H., Fernhall, B., Thompson, K. M., & Valentini, T. A. (2008). Behavioral correlates of working memory following acute aerobic and resistance exercise. *Medicine and Science in Sports and Exercise*, 40, S89.
12. **Pontifex, M. B.**, O'Connor, P. M., Broglio, S. P., & Hillman, C. H. (2008). The influence of mTBI history on the cognitive control of action monitoring. *Psychophysiology*, 45, S36.
11. **Pontifex, M. B.**, Raine, L. B., Witten, B. N., Castelli, D. M., Hall, E. E., Hillman, C. H. (2008). The effects of acute aerobic exercise on the cognitive control of attention and academic achievement in preadolescent children. *Psychophysiology*, 45, S36.
10. Samson, J. M., Sosnoff, J. J., Buck, S. M., **Pontifex, M. B.**, Themanson, J. R., & Hillman, C. H. (2008). Aerobic exercise training and intra-individual cognitive variability in older adults. *Medicine and Science in Sports and Exercise*, 40, S364.
9. Themanson, J. R., **Pontifex, M. B.**, Hillman, C. H., & McAuley, E. (2008). A neural and behavioral examination of the relation between self-efficacy and action monitoring processes. *Psychophysiology*, 45, S88.

## 2007

8. Hillman, C. H., Buck, S. M., Themanson, J. R., & **Pontifex, M. B.** (2007). Aerobic fitness and neuroelectric indices of cognitive control in preadolescent children. *Medicine and Science in Sports and Exercise*, 39, S164.
7. Hillman, C. H., Themanson, J. R., **Pontifex, M. B.**, George, D., Thompson, K., Valentini, T., & Wnek, K. (2007). Neuroelectric indices of error correction and the regulation of cognitive control. *Psychophysiology*, 44, S64.
6. **Pontifex, M. B.**, Hillman, C. H., & Polich, J. (2007). The relationship of age and fitness to attentional orienting and task difficulty. *Psychophysiology*, 44, S64.
5. Themanson, J. R., **Pontifex, M. B.**, & Hillman, C. H. (2007). Cardiorespiratory fitness influences on the modulation of neuroelectric and behavioral indices of action monitoring. *Psychophysiology*, 44, S65.

## 2006

4. Hess, J. J., Morris, K., Doerksen, S., Buck, S., Themanson, J., Pontifex, M., Hillman, C., and McAuley, E. (2006). Fitness, self-efficacy, and cognitive performance in older adults. *Medicine and Science in Sports and Exercise*, 38, S569.
3. **Pontifex, M. B.**, & Hillman, C. H. (2006). Executive control and acute in-task exercise. *Psychophysiology*, 43, S79.
2. Themanson, J. R., Buck, S. M., **Pontifex, M. B.**, Russell, C. A., Morris, K. A., Doerksen, S. E., Hess, J. J., McAuley, E., & Hillman, C. H. (2006). Self-efficacy and ERN in older adults. *Psychophysiology*, 43, S98.

## 2005

1. **Pontifex, M. B.**, Hillman, C. H., Motl, R. W., Posthuma, D., Stubbe, J. H., Boomsma, D. I., de Geus, E. (2005). Physical activity and cognitive function in a cross-section of younger and older community-dwelling individuals. *Journal of Sport & Exercise Psychology*, 27, S123.

## Poster Presentations:

## International/National

29. Brascamp, J. W., \*McGowan, A. L., & **Pontifex, M. B.** (2019). Bi-stable perception as a bridge between vision and decision making. Poster presented at the Vision Sciences Society Conference. St. Pete Beach, FL.
28. \*McGowan, A. L., \*Chandler, M. C., & **Pontifex, M. B.** (2019). Pupillometric indices of arithmetic approximation in college-aged adults. Verbal presentation at the Mathematical Cognition and Learning Society Conference. Ottawa, ON, Canada.
27. \*McGowan, A. L., \*Chandler, M. C., & **Pontifex, M. B.** (2019). Aerobic fitness and arithmetic processing in college-aged adults. Verbal presentation at the Canadian Society for Brain, Behavior, and Cognitive Science. Waterloo, ON, Canada.
26. \*Delli Paoli, A. G., Smith, A. L., & **Pontifex, M. B.** (2015). Effects of walking and social exclusion on affect and cognition. Poster presented at the 6th Annual Meeting for the Society for Social Neuroscience (S4SN). Chicago, IL.
25. Theresia, J., Hahn, S., Harris, W., Kinabo, J., **Pontifex, M. B.**, & Fenton, J. I. (2015). Association between fatty acid status and executive function in Tanzanian children aged 2-6. Poster presented at the 2015 Annual Meeting for Experimental Biology.
24. Drollette, E. S., Scudder, M. R., Moore, R. D., Raine, L. B., **Pontifex, M. B.**, & Hillman, C. H. (2014). The differential relation of sex on fitness and working memory in pre-pubertal children. Poster presented at the 21st Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.
23. Brassel, A., Shoulberg, E. K., **Pontifex, M. B.**, Smith, A. L., Delli Paoli, A. G., & Hoza, B. (2013). Sex, age and ADHD symptoms: Factors related to inhibition in early childhood. Poster presented at the Sixteenth Biennial International Society for Research in Child and Adolescent Psychopathology scientific meeting. Brussels, Belgium.
22. Wójcicki, T. R., McAuley, E., **Pontifex, M. B.**, & Hillman, C. H. (2011). Predicting changes in health-related quality of life in children: Influences of physical self-worth, self-efficacy, fitness and body mass index. Poster presented at the 32nd Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, Washington, D.C.



21. Wójcicki, T. R., McAuley, E., **Pontifex, M. B.**, & Hillman, C. H. (2010). Health-related quality of life indicators in children: Influences of esteem, self-efficacy, and fitness. Poster presented at the 2010 International Congress of Physical Activity and Public Health, Toronto, ON, Canada.
20. Bost, K., Choi, E., Levin-Silton, R. Wong, M. S., Hillman, C., **Pontifex, M. B.**, Warren, S. Roisman, G. I., Heller, W. (2009). Preschool children's organization of emotion: perceptual asymmetry, attachment representations, and behavior among peers. Poster presented at the 2009 Biennial Meeting of the Society for Research in Child Development, Denver, CO.
19. Hillman, C. H., **Pontifex, M. B.**, Raine, L. B., Castelli, D. M., Hall, E. E., & Kramer, A. F. (2009). The effects of acute aerobic exercise on the cognitive control of attention and academic achievement in preadolescent children. Poster presented at the 2009 Biennial Meeting of the Society for Research in Child Development, Denver, CO.
18. **Pontifex, M. B.**, & Hillman, C. H. (2006). Neuroelectric and behavioral indices of interference control during acute cycling. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society.
17. Themanson, J. R., Buck, S. B., **Pontifex, M. B.**, Russell, C. & Hillman, C. H. (2006). Cardiorespiratory fitness and action monitoring in preadolescent children. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society.
16. Morris, K., Doerksen, S., McAuley, E., Hillman, C., Buck, S., Themanson, J., & **Pontifex, M. B.** (2005). Self-efficacy, cognition, and fitness in older adults. Poster presented at the 2005 annual meeting of the International Society for Behavioral Nutrition and Physical Activity, Amsterdam, The Netherlands.

#### Regional

15. \*Delli Paoli, A. G., **Pontifex, M. B.**, & Smith, A. L. (2014). Are the effects of an acute bout of physical activity on inhibitory control consistent across days? Poster presented at the meeting of the 4th Annual Midwestern Cognitive Science Conference, Dayton, OH.
14. Warning, J. T., Pfeiffer, K. A., **Pontifex, M. B.**, Pivarnik, J. M., & Lamb, E. (2013). Are there differences in children's physical activity and aerobic fitness according to academic achievement? Poster presented at the 41st Annual Meeting of the Midwest Chapter of the American College of Sports Medicine, Merrillville, IN.
13. Moore, R. D., Wu, K. T., **Pontifex, M. B.**, Broglio, S. B., & Hillman, C. H. (2012). The influence of concussion on neuroelectric function, attention and response variability. Poster presented at the 2nd Annual Conference on Concussion in Athletics: Brain to Behavior. State College: PA.
12. Kamijo, K., Khan, N. A., **Pontifex, M. B.**, Scudder, M. R., Drollette, E. S., Raine, L. B., Evans, E. M., Castelli, D. M., & Hillman, C. H. (2011). The negative relation of adiposity to cognitive health in preadolescent children: Perspectives on academic achievement. Poster presented at the ACSM Conference on Physical Activity, Cognitive Function, and Academic Achievement: Moving Students to Better Performance. Washington: DC.
11. **Pontifex, M. B.**, Saliba, B. J., Raine, L. B., Picchiatti, D. L., & Hillman, C. H. (2011). Enhancing inhibition in children with ADHD: The effect of a single bout of physical activity. Poster presented at the ACSM Conference on Physical Activity, Cognitive Function, and Academic Achievement: Moving Students to Better Performance. Washington: DC.
10. Raine, L. B., **Pontifex, M. B.**, Scudder, M. R., O'Leary, K. C., Wu, C. T., Drollette, E. S., Castelli, D. M., & Hillman, C. H. (2011). The FITKIDS Trial: The beneficial effects of a 9- month activity intervention on preadolescent cognition. Poster presented at the ACSM Conference on Physical Activity, Cognitive Function, and Academic Achievement: Moving Students to Better Performance. Washington: DC.

#### Institutional

9. \*Braggs, J. F., Scarcelli, L. L., Gerde, H. K., **Pontifex, M. B.**, \*McGowan, A. L. (2020). Physically active learning and quantity estimation in preschoolers. Poster presentation at the Michigan State University Undergraduate Research and Arts Forum. (Conference canceled).
8. \*Ham, M. S., \*Kosmyrna, E., \*Vasudevan, V., **Pontifex, M. B.**, \*McGowan, A. L. (2020). What's the best way to get good data? Comparing mobile EEG and high-density EEG systems. Poster presentation at the Michigan State University Undergraduate Research and Arts Forum. (Conference canceled).

7. \*Voisard, K. A., \*McGowan, A. L., \*Chandler, M. C., & **Pontifex, M. B.** (2019). Aerobic fitness and arithmetic approximation in college-aged adults. Poster presented at the Michigan State University Undergraduate Research and Arts Forum. *Selected as first-place recipient for poster presentation.*
6. \*Sokolowski, C. A., \*Chandler, M. C., \*McGowan, A. L., Brascamp, J. W., & **Pontifex, M. B.** (2018). Exploring the relationship between aerobic fitness and activation of the locus-coeruleus. Poster presented at the Michigan State University Undergraduate Research and Arts Forum.
5. \*Egner, A. R., **Pontifex, M. B.**, \*Parks, A. C., O'Neal, P. C., Warning, J. T., Fenn, K. M., & Pfeiffer, K. A. (2013). Poorer aerobic fitness predicts reduced integrity of cognition across multiple memory systems. Poster presented at the Michigan State University Undergraduate Research and Arts Forum. East Lansing: MI. *Selected as first-place recipient for poster presentation.*
4. Raine, L. B., Hillman, C. H., **Pontifex, M. B.**, Castelli, D. M., Hall, E. E., & Kramer, A. F. (2009). The effect of acute treadmill walking on cognitive control and academic achievement in preadolescent children. Poster presented at the 2009 CHAD, Health and Wellness Initiative Symposium, University of Illinois at Urbana-Champaign, IL.
3. **Pontifex, M. B.**, Hillman, C. H., & Polich, J. (2007). The relationship of age and fitness to attentional orienting and task difficulty. Poster presented at the 2007 Department of Kinesiology and Community Health 50th Anniversary Open House, University of Illinois at Urbana-Champaign, IL.
2. **Pontifex, M. B.**, & Hillman, C. H. (2006). Neuroelectric and behavioral indices of interference control during acute cycling. Poster presented at the 2006 Department of Kinesiology and Community Health Honors and Awards Night, University of Illinois at Urbana-Champaign, IL.
1. **Pontifex, M. B.**, Hillman, C. H., Motl, R. W., Posthuma, D., Stubbe, J. H., Boomsma, D. L., & de Geus, E. (2005). Physical activity and cognitive function in a cross-section of younger and older community-dwelling individuals. Poster presented at the 2005 Department of Kinesiology Honors and Awards Night, University of Illinois at Urbana-Champaign, IL.

## Software Development

Software packages publicly available via <https://github.com/mattpontifex>.

### R Toolboxes:

8. **Rmimic**. An R package that mimics functionalities and outputs of SPSS/SAS/Systat to make R easier for individuals to learn and ensure that tests are run using the appropriate methods. The package also provides an SPSS like graphical user interface that writes and runs the R code. Test results are automatically rotated (i.e., Time within each Group and Group within each Time) and broken down using appropriate post-hoc tests and statistics are outputted in APA format.

```

Group:Time
There was an interaction of Group x Time,  $F(2, 236) = 12.8$ ,  $p < 0.001$ ,  $f^2 = 0.64$  [95% CI: 0.35 to 1.10].

----- Breakdown Approach 1 -----
Post-hoc decomposition of the Group x Time interaction was
conducted by examining the effect of Time within each Group.

For Group: Group1
There was a main effect of Time,  $F(2, 118) = 30.9$ ,  $p < 0.001$ ,  $f^2 = 1.95$  [95% CI: 1.12 to 3.82].

----- Post hoc Comparisons -----
No significant differences were observed between Time1
(30.2 +/- 7.7) and Time2 (28.5 +/- 7.1);  $t(117) = 1.4$ ,  $p = 0.18$ ,  $d_{rm} = 0.20$  [95% CI: -0.09 to 0.49].

The difference between Time1 (30.2 +/- 7.7) and Time3
(21.2 +/- 8.6) was statistically significant;  $t(117) = 7.4$ ,  $p < 0.001$ ,  $d_{rm} = 1.23$  [95% CI: 0.87 to 1.59].

The difference between Time2 (28.5 +/- 7.1) and Time3
(21.2 +/- 8.6) was statistically significant;  $t(117) = 6.0$ ,  $p < 0.001$ ,  $d_{rm} = 0.90$  [95% CI: 0.58 to 1.21].

For Group: Group2
There was a main effect of Time,  $F(2, 118) = 3.7$ ,  $p = 0.027$ ,  $f^2 = 1.66$  [95% CI: 0.93 to 3.26].

----- Post hoc Comparisons -----
The difference between Time1 (30.5 +/- 7.9) and Time2
(27.4 +/- 7.4) was statistically significant;  $t(118) = 2.6$ ,  $p = 0.01$ ,  $d_{rm} = 0.44$  [95% CI: 0.11 to 0.78].

The difference between Time1 (30.5 +/- 7.9) and Time3
(28.1 +/- 9.1) was statistically significant;  $t(118) = 2.0$ ,  $p = 0.048$ ,  $d_{rm} = 0.22$  [95% CI: 0.01 to 0.43].
However, that difference did not remain significant
following false discovery rate control (Benjamini-
Hochberg critical alpha = 0.033).

No significant differences were observed between Time2
(27.4 +/- 7.4) and Time3 (28.1 +/- 9.1);  $t(118) = 0.6$ ,  $p = 0.54$ ,  $d_{rm} = 0.10$  [95% CI: -0.21 to 0.40].

----- Breakdown Approach 2 -----
Post-hoc decomposition of the Group x Time interaction was
conducted by examining the effect of Group within each Time.

For Time: Time1
No significant differences were observed between Group1
(30.2 +/- 7.7) and Group2 (30.5 +/- 7.9);  $t(294) = 0.2$ ,  $p = 0.8$ ,  $d_s = 0.04$  [95% CI: -0.32 to 0.40].

For Time: Time2
No significant differences were observed between Group1
(28.5 +/- 7.1) and Group2 (27.4 +/- 7.4);  $t(294) = 0.8$ ,  $p = 0.45$ ,  $d_s = 0.14$  [95% CI: -0.22 to 0.50].

For Time: Time3
The difference between Group1 (21.2 +/- 8.6) and Group2
(28.1 +/- 9.1) was statistically significant;  $t(294) = 4.8$ ,  $p < 0.001$ ,  $d_s = 0.87$  [95% CI: 0.51 to 1.24].

```

Figure illustrating a subset of the automatically generated ANOVA results output with t-test decomposition of an interaction and post hoc comparisons in APA format.

### Python Toolboxes:

7. **xcats**. This package provides a category analysis engine designed for the automated processing of behavioral data files that are produced during administration of cognitive assessments. This toolbox is compatible with a number of popular formats including Neuroscan Stim2 and E-Prime. Included within this toolbox are functions for creating compatible output files for BOLD fMRI data processing and processing algorithms for Conditional Accuracy Functions.
6. **eegpipe**. This package mimics the functionalities of EEGLAB/ERPLAB MATLAB psychophysiology toolboxes to allow for rapid and interactive processing of EEG and pupillometry data in python in a more lightweight and streamlined fashion.
5. **UnicornHybridBlack**. This package provides a set of EEGLAB/ERPLAB and Python functions to interact with the g.tec Unicorn Hybrid Black 8 channel wireless EEG device. This package provides the ability to stream EEG data into python using a multiprocessing approach that allows for event marking. Integrated into this package is a PsychoPy based stimulus presentation engine that enables concurrent recording of behavioral and neuroelectric measures during completion of highly-customizable cognitive tasks.



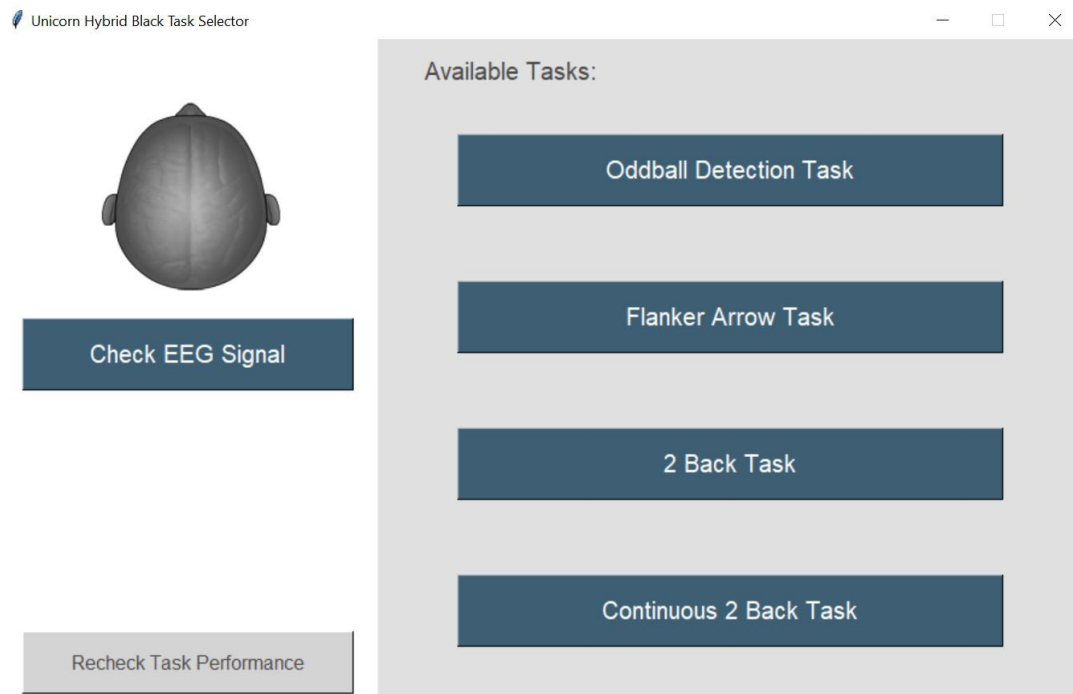


Figure illustrating the task selection interface that is customizable for any task the user wants to run. In this case presenting four cognitive assessments. The user selects the task and EEG is automatically recorded with event triggers while the task runs.

#### EEGLAB and ERPLAB Extensions:

4. **loadcurry**. This package enables loading data recorded using Compumedics Neuroscan Curry neuroimaging software suite into EEGLAB in Matlab. This package is the only data read in function endorsed and supported by Compumedics Neuroscan for reading in their data.
3. **simpleEEG**. A set of EEGLAB/ERPLAB functions that enhance the functionality of the point and click EEGLAB graphical user interface. This extension calls many default functions within EEGLAB simplifying the option list to the most commonly used parameters and simplifying the command line calls. In other cases the extension utilizes custom functions to mimic the output of default functions but using more robust approaches to eliminate potential errors and ERPLAB popups. Each function, when run, will also output equivalent code that can be run with a script or function.
2. **icaeyeblinkmetrics**. This package is designed for automated/semi-automated selection of ICA components associated with eye blink artifact using time-domain measures. The toolbox is based on the premises that 1) an ICA component associated with eye blinks should be more related to the recorded eye blink activity than other ICA components, and 2) removal of the ICA component associated with eye blinks should reduce the eye blink artifact present within the EEG following back projection. The development of this package lead to the validation publication in 2017.
1. **erppeakinterval**. This package is designed to supplement the ERP quantification metrics provided by ERPLAB. This extracts the mean amplitude surrounding the peak latency for each channel in the interval period specified. Effectively this can be considered as moving the window period to center around the peak amplitude.

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## Instructional Activities

*\* Denotes the development of a new course or significant revision of existing course.*

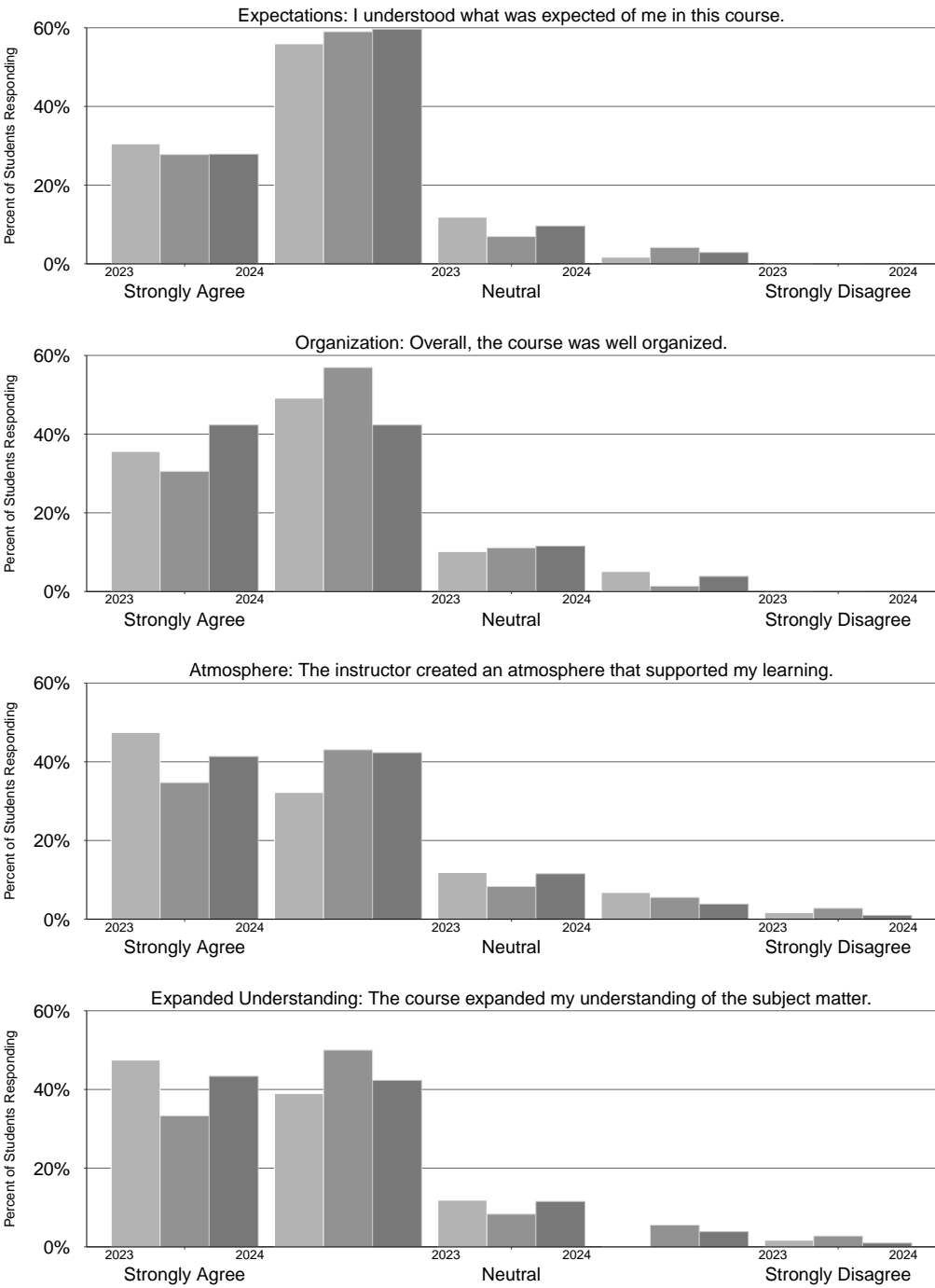
### Undergraduate Courses:

2023 – Present     **Instructor**, KIN 240: Principles of Biobehavioral Health \*

Michigan State University, East Lansing, MI

Developed and instructed an introductory kinesiology course which is one of the core principles courses in Kinesiology in which students must earn a 2.0 or higher to be admitted to the major. This course serves to introduce students to basic principles, concepts, and issues surrounding the interaction among biological, behavioral, psychological, sociocultural, and environmental variables that influence health. This course covers aspects of physical activity and disease risk; principles of behavior modification; public health strategy and implementation; physical activity influences on affect, cognition, and sleep; benefits and consequences of sports; and socialization influences associated with sport. A particular emphasis in the course is in helping students to move beyond basic regurgitation of information and be able to apply their knowledge and understanding of these concepts to real-world situations.

*Format:* Two 50-minute lecture periods each week with all students. One 90-minute laboratory/discussion period each week in subgroups of <40 students taught by teaching assistants.



| Semester    | Total Students | Percent Freshman | Expectations | Organization | Atmosphere | Expanded Understanding | Demonstrated Understanding |
|-------------|----------------|------------------|--------------|--------------|------------|------------------------|----------------------------|
| Fall 2023   | 174            | 61               | 4.2 ± 0.7    | 4.2 ± 0.8    | 4.2 ± 1.0  | 4.3 ± 0.8              | 4.0 ± 1.0                  |
| Spring 2024 | 258            | 44               | 4.1 ± 0.7    | 4.1 ± 0.7    | 4.0 ± 1.1  | 4.1 ± 1.0              | 3.8 ± 1.1                  |
| Fall 2024   | 325            | 45               | 4.1 ± 0.7    | 4.2 ± 0.8    | 4.2 ± 0.9  | 4.3 ± 0.8              | 4.1 ± 0.9                  |
| Spring 2025 | 272            | 32               | NA           | NA           | NA         | NA                     | NA                         |

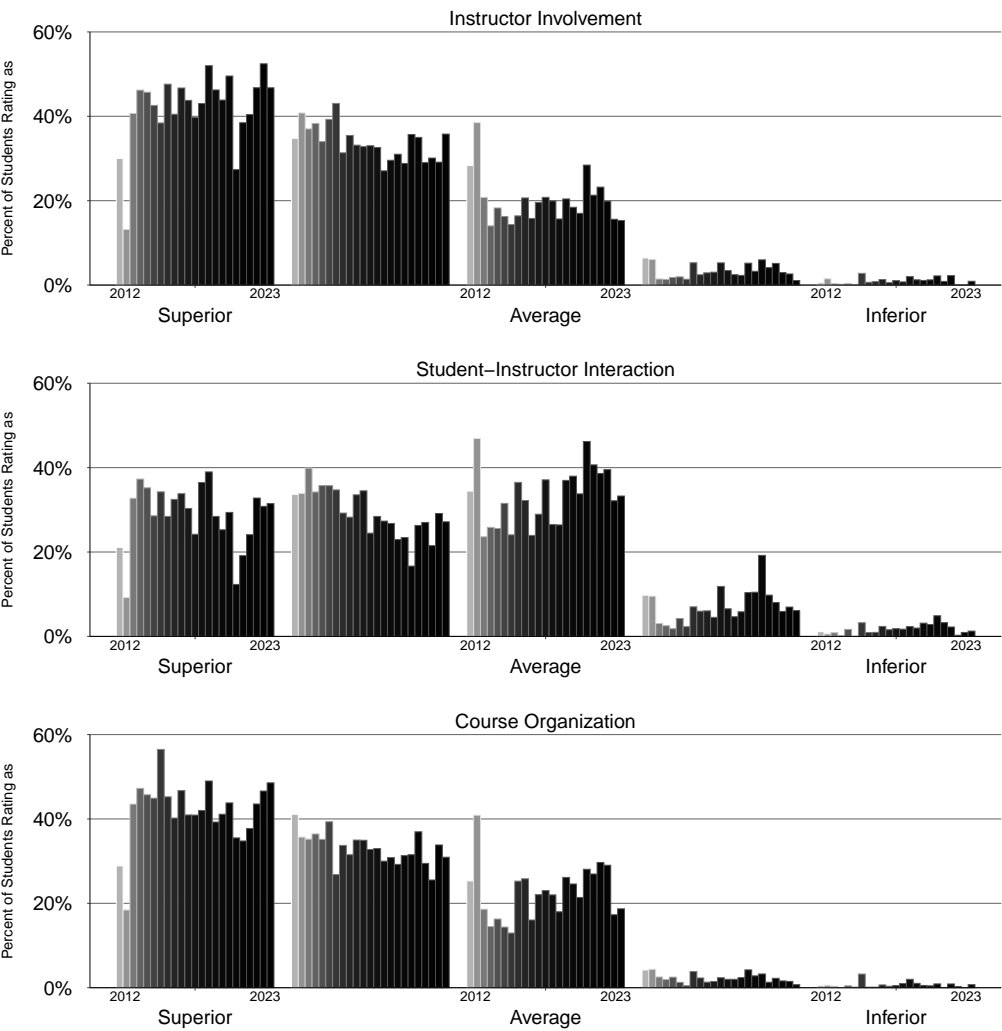
Note: Data obtained from the MSU Student Perceptions of Learning Survey. Scores range from Strongly Agree (5) to Strongly Disagree (1).

2012 – 2023

**Instructor**, KIN 173: Foundations of Kinesiology \*  
Michigan State University, East Lansing, MI

Developed and instructed an introductory kinesiology course which was adopted as one of the core courses in Kinesiology in which students must earn a 2.0 or higher to be admitted to the major. This course serves to introduce students to the basic theoretical and practical concepts, topics, and issues that relate to the field of kinesiology; drawing current events from the world of sports and public health as examples relevant to the topics discussed (spanning cardiovascular, respiratory, musculoskeletal, training adaptations, body composition, epidemiology, energy balance, physical activity recommendations, approaches to behavior modification, sociocultural influences on sport, aggression, and performance enhancement). A particular emphasis in the course is in helping students to move beyond basic regurgitation of information and be able to apply their knowledge and understanding of these concepts to real-world situations. This course ended in 2023 as part of comprehensive departmental curricular revisions and restructuring.

*Format:* Two 50-minute lecture periods each week with all students. One 90-minute laboratory/discussion period each week in subgroups of <40 students taught by teaching assistants.

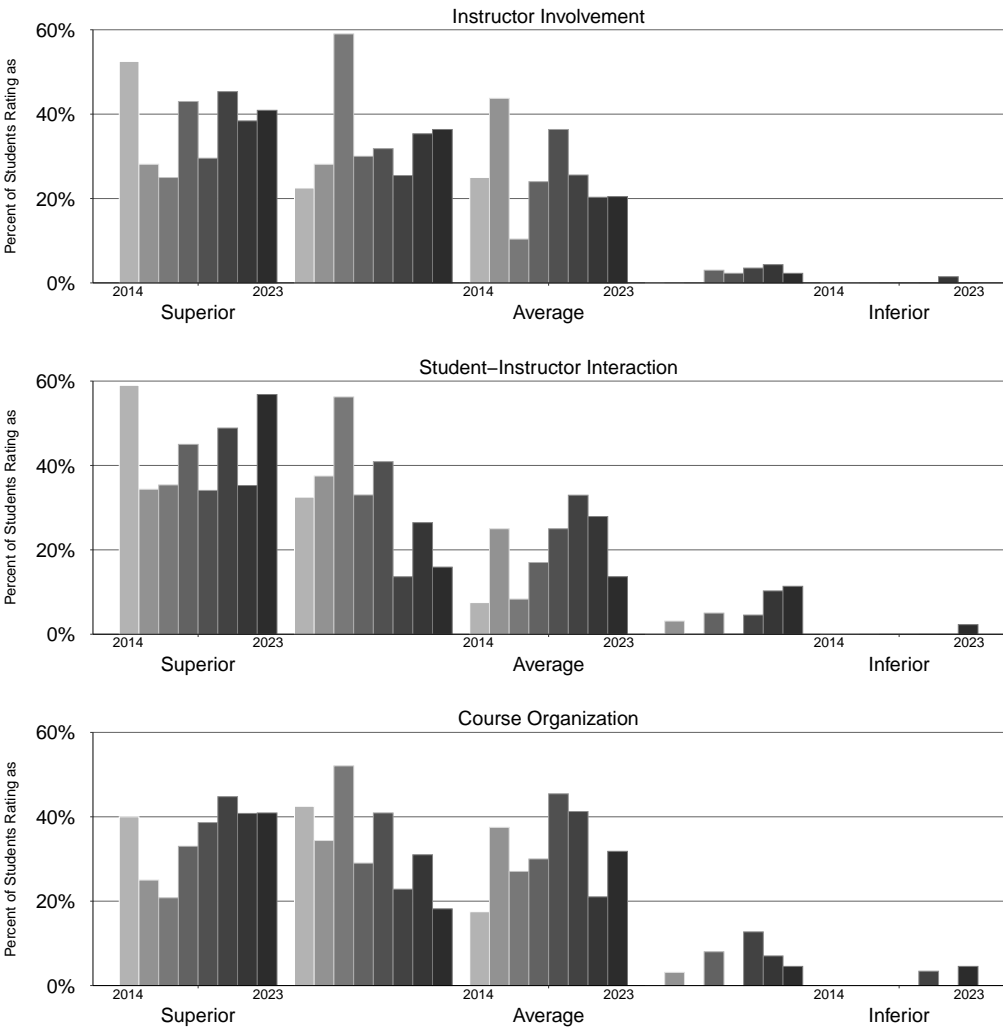


| Semester  | Total Students | Percent Freshman | Instructor Involvement | Student Interest | Student Instructor Interaction | Course Demands | Course Organization |
|---|----------------|------------------|------------------------|------------------|--------------------------------|----------------|---------------------|
| Spring 2012   | 120            | 54               | 2.1 ± 0.3              | 2.1 ± 0.1        | 2.4 ± 0.1                      | 2.4 ± 0.1      | 2.1 ± 0.1           |
| Fall 2012**   | 174            | 56               | 2.4 ± 0.6              | 2.2 ± 0.6        | 2.6 ± 0.6                      | 2.7 ± 0.6      | 2.3 ± 0.7           |
| **Course format changed to include one 90-minute laboratory/discussion component each week.   |                |                  |                        |                  |                                |                |                     |
| Spring 2013   | 211            | 43               | 1.8 ± 0.7              | 2.0 ± 0.6        | 2.0 ± 0.8                      | 2.2 ± 0.8      | 1.8 ± 0.7           |
| Fall 2013   | 200            | 52               | 1.7 ± 0.7              | 1.9 ± 0.7        | 1.9 ± 0.8                      | 2.1 ± 0.8      | 1.7 ± 0.7           |
| Spring 2014   | 202            | 37               | 1.8 ± 0.7              | 1.9 ± 0.7        | 2.0 ± 0.8                      | 2.1 ± 0.8      | 1.8 ± 0.8           |
| Fall 2014   | 206            | 45               | 1.8 ± 0.7              | 2.0 ± 0.7        | 2.1 ± 0.7                      | 2.1 ± 0.7      | 1.7 ± 0.7           |
| Spring 2015   | 209            | 38               | 1.9 ± 0.9              | 2.0 ± 0.9        | 2.1 ± 1.0                      | 2.2 ± 0.9      | 1.7 ± 0.9           |
| Fall 2015   | 226            | 53               | 1.8 ± 0.9              | 2.0 ± 0.8        | 2.3 ± 0.9                      | 2.1 ± 0.9      | 1.7 ± 0.8           |
| Spring 2016   | 225            | 41               | 1.9 ± 0.9              | 2.0 ± 0.8        | 2.1 ± 1.0                      | 2.1 ± 0.9      | 1.9 ± 0.9           |
| Fall 2016   | 234            | 56               | 1.8 ± 0.9              | 1.8 ± 0.8        | 2.1 ± 1.0                      | 2.0 ± 0.9      | 1.7 ± 0.8           |
| Spring 2017   | 298            | 43               | 1.8 ± 0.9              | 1.9 ± 0.8        | 2.1 ± 0.9                      | 2.1 ± 0.9      | 1.8 ± 0.9           |
| Fall 2017   | 237            | 52               | 1.9 ± 0.9              | 2.0 ± 0.8        | 2.4 ± 1.0                      | 2.3 ± 1.0      | 1.9 ± 0.9           |
| Spring 2018   | 309            | 50               | 1.9 ± 0.9              | 1.9 ± 0.8        | 2.1 ± 1.0                      | 2.1 ± 0.9      | 1.9 ± 0.8           |
| Fall 2018   | 234            | 47               | 1.8 ± 0.9              | 1.8 ± 0.8        | 2.0 ± 1.0                      | 2.0 ± 1.0      | 1.7 ± 0.9           |
| Spring 2019   | 306            | 57               | 1.8 ± 0.9              | 1.9 ± 0.8        | 2.3 ± 1.0                      | 2.2 ± 0.9      | 1.9 ± 0.9           |
| Fall 2019   | 238            | 46               | 1.9 ± 1.0              | 1.9 ± 0.8        | 2.4 ± 1.1                      | 2.2 ± 1.0      | 1.9 ± 0.9           |
| Spring 2020   | 290            | 53               | 1.8 ± 0.9              | 1.8 ± 0.8        | 2.3 ± 1.1                      | 2.1 ± 1.0      | 1.8 ± 0.9           |
| Fall 2020**   | 274            | 46               | 2.2 ± 1.0              | 2.0 ± 0.8        | 2.9 ± 1.0                      | 2.5 ± 0.9      | 2.0 ± 0.9           |
| **Online-asynchronous course format in response to COVID-19.  |                |                  |                        |                  |                                |                |                     |
| Spring 2021**   | 197            | 46               | 1.9 ± 0.9              | 1.9 ± 0.8        | 2.5 ± 0.9                      | 2.2 ± 0.9      | 2.0 ± 0.8           |
| **Online-asynchronous course format in response to COVID-19.  |                |                  |                        |                  |                                |                |                     |
| Fall 2021**   | 220            | 55               | 2.0 ± 1.0              | 2.0 ± 0.9        | 2.4 ± 1.0                      | 2.4 ± 1.0      | 2.0 ± 0.9           |
| **Flipped hybrid course format in response to COVID-19. Lectures were provided asynchronously online with one 50-minute in-person mastery session per week where concepts from the lecture material were discussed. |                |                  |                        |                  |                                |                |                     |
| Spring 2022**   | 227            | 66               | 1.8 ± 0.9              | 1.8 ± 0.8        | 2.2 ± 1.0                      | 2.1 ± 1.0      | 1.9 ± 0.9           |
| **The first 3 weeks of the semester were run asynchronously online. The course then returned to its typical in-person format.   |                |                  |                        |                  |                                |                |                     |
| Fall 2022   | 320            | 53               | 1.7 ± 0.8              | 1.7 ± 0.7        | 2.2 ± 1                        | 1.9 ± 0.8      | 1.7 ± 0.8           |
| Spring 2023   | 313            | 63               | 1.7 ± 0.8              | 1.8 ± 0.8        | 2.2 ± 1                        | 2.0 ± 0.9      | 1.7 ± 0.8           |

Note: Data obtained from the MSU Student Instructional Rating System. Scores range from Superior (1) to Inferior (5).

Fall 2020,  
Fall 2019,  
Spring 2019,  
Fall 2018,  
Fall 2016,  
Fall 2015,  
Fall 2014

**Instructor**, KIN 443: Psychophysiological Aspects of Kinesiology \*  
Michigan State University, East Lansing, MI  
Examination of the theory and practice of using non-invasive electrophysiological and hemodynamic measures to study psychological phenomena, and how these psychological constructs are influenced by exercise and physical activity engagement. Diverse material spanning multiple aspects of psychology has been selected to reflect the interaction between psychological processes and physiological parameters in exercise science.  
*Format:* Two 90-minute periods each week with all students.



| Semester   | Total Students | Instructor Involvement | Student Interest | Student Instructor Interaction | Course Demands | Course Organization |
|--|----------------|------------------------|------------------|--------------------------------|----------------|---------------------|
| Fall 2014  | 10             | 1.7 ± 0.7              | 1.8 ± 0.7        | 1.5 ± 0.5                      | 2.0 ± 0.7      | 1.8 ± 0.6           |
| Fall 2015  | 15             | 2.1 ± 0.8              | 2.1 ± 0.7        | 1.9 ± 0.8                      | 2.1 ± 0.9      | 2.2 ± 0.8           |
| Fall 2016  | 20             | 1.9 ± 0.6              | 2.0 ± 0.6        | 1.7 ± 0.6                      | 1.9 ± 0.6      | 2.2 ± 0.7           |
| Fall 2018  | 29             | 1.9 ± 0.9              | 1.8 ± 0.8        | 1.8 ± 0.9                      | 1.8 ± 0.8      | 2.1 ± 0.9           |
| Spring - 2019  | 14             | 2.1 ± 0.9              | 2.2 ± 1.0        | 1.9 ± 0.8                      | 2.0 ± 0.7      | 2.0 ± 0.8           |
| Fall 2019  | 30             | 1.9 ± 0.9              | 2.0 ± 0.8        | 1.9 ± 1.0                      | 2.0 ± 0.9      | 2.2 ± 1.2           |
| Fall 2020**  | 26             | 1.9 ± 0.9              | 2.0 ± 1.1        | 2.1 ± 1.0                      | 2.0 ± 1.1      | 2.0 ± 1.0           |
| **Online-asynchronous course format in response to COVID-19. |                |                        |                  |                                |                |                     |
| Spring 2023  | 28             | 1.8 ± 0.8              | 2.1 ± 0.9        | 1.9 ± 1.2                      | 1.9 ± 1.1      | 2.0 ± 1.0           |

Note: Data obtained from the MSU Student Instructional Rating System. Scores range from Superior (1) to Inferior (5).

2009

**Instructor**, KINES 140: Social Science of Human Movement  
University of Illinois, Urbana-Champaign, IL

Served as the instructor for an introductory kinesiological psychology course (SP09: 181 students; FA09: 137 students) which is one of the core courses in Kinesiology and as well as a course that meets general education requirements in the social and behavioral sciences. This course served to introduce students to the basic theoretical and practical concepts (including a multitude of systematic methods, perspectives, and approaches) involved in the psychological and sociological study of kinesiology.

Graduate Courses:

Fall 2017

**Instructor**, KIN 960: Issues in Motor Behavior – Topic: Professional Development and Grant Writing \*

Michigan State University, East Lansing, MI

This course was designed to enhance students’ understanding of the expectations involved in pursuing a research-based academic career with the goal of developing those skills and materials necessary to compete effectively. This course utilized a hybrid of lecture, discussion, and workshop-like activities to cover topics including strategies for navigating graduate school, project management, and the academic job market. Additional emphasis was placed upon enhancing students’ familiarity with the process of finding and successfully competing for grants to support their research activities.

| Semester  | Total Students | Instructor Involvement | Student Interest | Student Instructor Interaction | Course Demands | Course Organization |
|-----------|----------------|------------------------|------------------|--------------------------------|----------------|---------------------|
| Fall 2017 | 16             | 1.9 ± 0.9              | 2.1 ± 1.0        | 1.9 ± 0.9                      | 2.5 ± 1.1      | 2.2 ± 1.1           |

Note: Data obtained from the MSU Student Instructional Rating System. Scores range from Superior (1) to Inferior (5).

Fall 2013

**Instructor**, KIN 940: Issues in Psychosocial Physical Activity – Topic: Cognitive Kinesiology \*

Michigan State University, East Lansing, MI

This course examines emerging research in the neurobiological exercise sciences. The main focus of this course is on the relationship between physical activity, fitness, and other health factors on brain and cognition across the lifespan. Methodological techniques and approaches for research on cognitive kinesiology are also discussed relative to the utilization of both human and non-human animal models and neuroimaging techniques (ERPs, fMRI, fNIRS, & PET). Discussions focus on the current state of the field and potential future directions for further research bridging across clinical psychology, cognitive science, educational policy, exercise science, and neurobiology.

| Semester  | Total Students | Instructor Involvement | Student Interest | Student Instructor Interaction | Course Demands | Course Organization |
|-----------|----------------|------------------------|------------------|--------------------------------|----------------|---------------------|
| Fall 2013 | 10             | 1.4 ± 0.3              | 1.3 ± 0.4        | 1.3 ± 0.4                      | 1.7 ± 0.6      | 1.3 ± 0.4           |

Note: Data obtained from the MSU Student Instructional Rating System. Scores range from Superior (1) to Inferior (5).

Doctoral Dissertation Chair:

In Progress

Colt Coffman, Kinesiology

In Progress

Lauren Bullard, Kinesiology

2023

Oksana Ellison, Kinesiology, "Examining efficacy, mechanisms, and intervention fidelity of mindfulness-based cognitive therapy for anxiety and stress reduction among college students in a randomized controlled trial."

Dr. Ellison is now a postdoctoral research fellow in the Digital Insights Laboratory at Yale Medical School.

2021

Madison C. Chandler, Kinesiology, "Self-regulation moderates the relationship between fine motor skills and writing in early childhood."

Dr. Chandler completed a postdoctoral position in the Matthew Gfeller Sport-Related Traumatic Brain Injury Research Center at the University of North Carolina at Chapel Hill and is now an Assistant Professor in the Department of Exercise Science at Elon University.

2020

David A. Henning, Kinesiology, "An exploratory examination of the role that lifestyle activity and extent of disability has on cognitive function and quality of life in adults with cerebral palsy."

Dr. Henning is now a postdoctoral research fellow in the Neuroimaging and Neurorehabilitation Laboratory at Wayne State University.



- 2020 Amanda L. McGowan, Kinesiology, "Preschoolers exhibit similar learning but greater on-task behavior following physically active lessons on the approximate number system."  
Dr. McGowan completed a postdoctoral position in the Addiction, Health, and Adolescence Lab at University of Pennsylvania and from there took on a position as Assistant Professor in the Department of Psychology at Concordia University (nominated for Canada Research Chair in Digital Health and Marginalized Populations).
- 2019 Katy Gwizdala, Kinesiology, "Cerebral glucose uptake as an underlying mechanism of the effect of acute physical activity on inhibitory control."  
Dr. Gwizdala completed a postdoctoral position in the Pennington Biomedical Research Center at Louisiana State University before moving on to be a researcher at Bold Insight Inc., a user interface and human factors research agency in Chicago, IL. Dr. Gwizdala is now a Research Assistant Professor in the Ken and Ruth Davee Department of Neurology at Northwestern Feinberg School of Medicine.
- 2017 Andrew C. Parks, Kinesiology, "The effect of an acute bout of physical activity on inhibitory control in children with autism spectrum disorder."  
Dr. Parks completed a postdoctoral position in the Center on Physical Activity and Health in Pediatric Disabilities at the University of Michigan and is now an Assistant Professor in the Department of Kinesiology at Louisiana Tech University.

Doctoral Dissertation Committee Member:

- In Progress Kenan Sayers, Clinical Psychology & Kinesiology
- 2024 Melissa A. Quinn, Kinesiology, "Effects of high-intensity interval training and postnatal growth restriction on microbial and host metabolism."
- 2019 Abby Bretzin, Kinesiology, "Exploring long-term effects of contact sports participation."
- 2019 Russel Banks, Communicative Sciences and Disorders, "Concussion related differences in vocalization metrics."
- 2017 Anthony G. Delli Paoli, Kinesiology, "Effects of physical activity and aerobic fitness on responses to social exclusion."
- 2017 Natalie Berger, Clinical Psychology, "Understanding social versus nonsocial intention in autism spectrum disorder: Exploring the neural correlates of intention understanding based on intentional content."
- 2016 Katelin daCruz, School Psychology, "Effects of a randomized trial after-school physical activity club on the math achievement and executive functioning of girls."
- 2015 Teddy Jumbe, Food Science and Human Nutrition, "Association of fatty acid levels and growth and cognitive status of Tanzanian children 2-6 years."
- 2015 Jamie McAllister Deitrick, Kinesiology, "Implicit memory in high school athletes with a history of concussion."
- 2012 Brandon C. Irwin, Kinesiology, "Increasing physical activity in free-living conditions: Examination of the Köhler motivation gain effect."

Doctoral Guidance / Comprehensive Exam Committee Member:

|   |                                   |
|---|-----------------------------------|
| Kenan Sayers, Clinical Psychology & Kinesiology       | Samuel Forlenza, Kinesiology      |
| Marcelo Cabral De Andrade, Kinesiology                | Sharon L. Lo, Clinical Psychology |
| Natalie Berger, Clinical Psychology                   | Stephen Samendinger, Kinesiology  |
| Adrian Castillo, Communicative Sciences and Disorders | Melissa A. Quinn, Kinesiology     |
| Katelin daCruz, School Psychology                     |                                   |

Masters Student Committee Member:

|      |  |
|------|--|
| 2024 | Christophe Delay, Clinical Psychology                  |
| 2024 | Kenan Sayers, Clinical Psychology                      |
| 2017 | Gabriella Gilfoy, Communicative Sciences and Disorders |
| 2016 | Olufemi Oluyedun, Kinesiology                          |
| 2013 | Anthony G. Delli Paoli, Kinesiology                    |

Supervision of Undergraduate Research Assistants - 2020 to Present:

|                  |                  |                  |
|------------------|------------------|------------------|
| Kayla Amin       | Jennifer Duff    | Simon Peterson   |
| Harris Barnes    | Bailey Honeycutt | Gio Polsinelli   |
| Alexa Baughman   | Ashley Jones     | Ella Rades       |
| Grace Bergen     | Katie Koch       | Claudia Seiler   |
| Ashley Brasgalla | Clayton Monge    | Will Shriver     |
| Abby Brooks      | Clay Moscovic    | Ali Spanta       |
| Lis Cordeiro     | Emma Nesbitt     | Will Tucker      |
| Amelia Drahnak   | Kishan Patel     | Rebecca Weisberg |

## Supervision of Undergraduate Research Assistants - 2012 to 2020:

|                      |                  |                     |
|----------------------|------------------|---------------------|
| Maddy Allen          | Abby Gaulin      | Anthony Mrocko      |
| Michelle Bacher      | Katy Gwizdala    | Ashley Nebel        |
| Madeleine Barrera    | Monica Hagen     | Effie Oates         |
| Ashley Bennett       | Jeremy Hagerman  | Lydia Pineault      |
| Macy Bittner         | Morgan Ham       | Amanda Pohl         |
| Alexander Blanchett  | Brandon Henry    | Breanna Prickett    |
| Becca Blitz          | Thacker Hisey    | Riley Rampolo       |
| Jensyn Bradley       | Shelby Jarvis    | Andrew Rehling      |
| Julie Braggs         | Kylie Kayser     | Laura Scarcelli     |
| Kayla Bryant         | Tyler King       | Parita Shah         |
| Alexis Burdo         | Madeline Kipke   | Stephen Sheppard    |
| Shelby Cavazos       | Kyle Kirkland    | Jennifer Sneeringer |
| Rachel Collaer       | McKenzie Kosiara | Caleb Sokolowski    |
| Michael Conklin      | Ethan Kosmyna    | Carrie Thor         |
| Vanessa Cousino      | Samantha Lamkin  | Vishrudh Vasudevan  |
| Samantha Curry       | Shaina Lewinski  | Stacy Vo            |
| Marie Dickson        | Abigail London   | Katie Voisard       |
| Audrey Dorshimer     | Emily Lupton     | Alexis VonBehren    |
| Adriel Egnor         | Grace Mansour    | Lauren Walkon       |
| Katelyn Eidenberger  | Mallory Martlock | Alex Wietrick       |
| Mackenzie Eschberger | Gabriel Miller   | Cassie Zeni         |
| Clare Gapare         | Katherine Miller | Kelly Zorn          |
| David Gasser         | Connor Moul      |                     |

## Supervision of Pre-Undergraduate Research:

|             |   |
|-------------|---|
| Summer 2012 | Alexis Fuentes, Future Scientist Program sponsored by the American Cancer Society, Lansing School District, and Michigan State University |
|-------------|---|

## Professional Affiliations

|                             |  |
|-----------------------------|--|
| 2007 – Present              | American College of Sports Medicine                                  |
| 2004 – Present              | Society for Psychophysiological Research                             |
| 2015 – 2019,<br>2005 – 2007 | North American Society for Psychology of Sport and Physical Activity |
| 2005 – 2009                 | Cognitive Neuroscience Society                                       |

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## Honors and Awards

|             |  |
|-------------|--|
| 2006 – 2011 | Named to the University of Illinois at Urbana-Champaign 'List of Teachers Ranked as Excellent by Their Students' |
| 2008        | Roger Morse Most Promising Graduate Student Award; Department of Kinesiology and Community Health                |

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## Professional Development

|             |  |
|-------------|--|
| 2021        | Improving Recruitment, Accrual, and Retention in Clinical Trials, Online Course  |
| 2021        | Enhancing the Recruitment of Minorities in Clinical Trials, Coursera Certificate   |
| 2019        | Good Clinical Practice for Clinical Trials with Investigational Drugs and Medical Devices (U.S. FDA Focus) CITI Program Course   |
| 2019        | Health Information Privacy and Security (HIPS) for Clinical Investigators CITI Program Course  |
| 2017        | Michigan State University NIH Grant Writing Semester-long Workshop   |
| 2008 – 2011 | Weekly Seminar for Advances in Physiological Psychology  |
| 2005 – 2011 | Weekly Seminar for Topics on Brain and Cognition   |
| Fall 2010   | Grant Writing for the Behavioral Scientist Seminar   |
| Spring 2008 | Professional Development in Kinesiology and Community Health Seminar   |
| Spring 2007 | UIUC Center for Teaching Excellence Instructional Workshops <ul style="list-style-type: none"><li>- Conflict and Conversation in College Teaching</li><li>- Unlock Your Students' Potential: Teaching Your Learners How to Learn</li><li>- Using Analogies, Metaphors, and Examples to Enhance Your Teaching</li></ul> |
| Fall 2006   | UIUC Center for Teaching Excellence, Test Construction Workshop  |
| Winter 2004 | Compumedics Neuroscan Software School  |

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## Certifications and Licensures

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|----------------|--|
| 2024 - Present | <b>Women's Lacrosse Coach - Platinum Certification</b> , USA Lacrosse      |
| 2003 – 2015    | <b>BLS Instructor</b> , American Heart Association                         |
| 2003 – 2011    | <b>EMT-Basic</b> , National Registry of Emergency Medical Technicians      |
| 2003 – 2011    | <b>EMT-Basic</b> , State of Illinois, Department of Public Health          |
| 2007           | <b>Graduate Teaching Certificate</b> , UIUC Center for Teaching Excellence |

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2004 – 2007      **Certified Phlebotomist**