**Patrick S. Ledwidge, Ph.D.**

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**APPOINTMENTS**

**Assistant Professor of Neuroscience** 2023-

Department of Psychological Sciences

 *Western Kentucky University*

**Affiliate Associate Professor** 2023-

Department of Psychology

 *Baldwin Wallace University*

**Assistant Professor** 2017-2023

 Department of Psychology

 Department of Neuroscience

 *Baldwin Wallace University*

**EDUCATION**

Ph.D. **University of Nebraska-Lincoln**,*Cognitive Neuroscience* 2017

Minor in *Communication Sciences & Disorders*

M.A. **University of Nebraska-Lincoln**, *Cognitive Neuroscience* 2015

B.A. **DePauw University**, *Psychology, Spanish* 2013

**RESEARCH INTERESTS**

Neurophysiology of sports-related concussion and ACL/MSK injury; risk prediction for concussion and MSK injury; neurophysiological applications to sports injury evaluation, prevention, and rehabilitation; cognitive-motor neurophysiology; long-term cognitive and psychosocial functioning in retired athletes; pediatric brain development and skill acquisition; psycholinguistics

**SKILLS & METHODS**

High-density electroencephalography (EEG); ERP processing/analysis; EEGLAB/ERPLAB toolboxes; EEG time frequency analysis; Net Station 5.x; E-prime 3.x; SPSS; SAS; MPlus, neuropsychological testing (including virtual test administration); multivariate statistics; multilevel modeling

**GRANTS, HONORS, & AWARDS**

**Under Review**

2023 NIH National Institute of Arthritis, Musculoskeletal, and Skin Diseases. Academic Research Enhancement Award (R15). “Dual-task Neurophysiological and Biomechanical Risk Factors for a Second ACL injury.” Resubmission. Co-PI

**Funded**

2023 *Maurin Honor’s College Honor’s Faculty Engagement Grant*, Western Kentucky University, “Critical Evaluation of Commercial vs. Research EEG Systems in PSYS 160 Introduction to Biopsychology. $709.96.

2023 Kentucky INBRE Start-Up Award. PI. $25,000.

2022 *Edith C. Robinson Grant,* “Cognitive-Motor Interference after ACL Reconstruction and

 Return to Sport: An EEG Study.” $1,000.

2022 *Gund Student-Faculty Research Grant*, Baldwin Wallace University. $2,000

2020 *Faculty Summer Grant*, Baldwin Wallace University. $4,000

2020 *Gund Student-Faculty Research Grant*, Baldwin Wallace University. “Funds to support the Cognitive Neuropsychology Laboratory.” $1,000

2019 *Faculty Summer Grant*, Baldwin Wallace University. $2,000

2019 *Scholarly Presentation for Domestic Travel Grant*, Baldwin Wallace University. $1,261.81

2019 *Gund Student-Faculty Research Grant*, Baldwin Wallace University. “Funds to support undergraduate research in the Cognitive Neuropsychology Laboratory.” $3,000

2018 *Human Participant Research Funds*, “Baldwin Wallace Concussion Project.” Baldwin Wallace University Department of Psychology. $675.

2018 *Annual funds to support the Cognitive Neuropsychology Laboratory.* Provost’s Office, Baldwin Wallace University.

2018 *Women for BW*. “BW Concussion Education and Research Program.” Baldwin Wallace University. $5,000

2018 *Baldwin Wallace University Faculty-Student Collaboration*. “How distracting is your *iPhone*? Neural mechanisms of divided attention during the presence of a cell-phone.”

2018 *Faculty Summer Grant*, Baldwin Wallace University. “The Concussion Athlete Project: changes in cognition and language during recovery from concussion.” $4,000

2018 *Gund Student-Faculty Research Grant*, Baldwin Wallace University. “Neural mechanisms of contextual ambiguity resolution.” $3,000

2017 *Human Participant Research Fund*, “Brain Responses during Contextual Ambiguity Resolution and Divided Attention via Cell Phone Use.” Baldwin Wallace University Department of Psychology. $1,800.

2015 Research support funds for Center for Brain, Biology & Behavior, “Changes in Working Memory Across the Adult Lifespan.” State of Nebraska. $9240.

2015 Graduate Research Mentor Award (Nominee), University of Nebraska-Lincoln, Department of Psychology

2017 *Warden Funds Research/Travel Grant*. University of Nebraska-Lincoln Department of Psychology. $300

2016 *Warden Funds Research/Travel Grant*. University of Nebraska-Lincoln Department of Psychology. $300

2015 *Warden Funds Research/Travel Grant*. University of Nebraska-Lincoln Department of Psychology. $300

2012 DePauw University, J. William and Katherine C. Asher Research Fund, “Endowed Research Grant.” $3,800.

2013 Madson Graduate Scholarship, The Sigma Chi Foundation

2013 Department of Psychology Senior Thesis Award, DePauw University

2013 Kenneth S. Wagoner Psychology Research Award, DePauw University

2011 General Academic Scholarship, Sigma Chi Foundation

**Applied, Not Funded**

2022 Arthroscopy Association of North America. “Cognitive and Neurophysiological Factors Impacting Recovery from ACL Reconstruction.” Co-PI

2022 The Orthopaedic Research and Education Foundation. “Dual-Task Neurophysiology and Biomechanics Post-ACL Reconstruction.” Co-PI

2022 NIH National Institute of Arthritis, Musculoskeletal, and Skin Diseases. Academic Research Enhancement Award (R15). “Dual-task Neurophysiological and Biomechanical Risk Factors for a Second ACL injury.” Co-PI. *Discussed passed to Advisory Council Review* (11/10/22)

2021 The Orthopaedic Research and Education Foundation. “Biomechanical, Cognitive, and Neural Predictors of Secondary ACL Injury.” PI

2016 NIH NINDS Ruth L. Kirschstein NRSA Individual Predoctoral Fellowship (Parent F31). “Concussion and Cognitive Communication in College Athletes: Neural Markers and Functional Deficits.”

2015 NIH NICHD Ruth L. Kirschstein NRSA Individual Predoctoral Fellowship (Parent F31). “Neural Biomarkers of Concussion in Adolescents.”

2013 NSF Graduate Research Fellowship. “Tracking Neural Network Changes in Working Memory Across the Adult Lifespan.”

**PUBLICATIONS**

|  |  |  |  |
| --- | --- | --- | --- |
|  | *H-index* | *Times cited* | *i10 index* |
| Web of Science  | 3 | 49 | N/A |
| Google Scholar | 4 | 124 | 4 |

*In preparation*

**Ledwidge, P.S.**, Hartland, L., Huston, C., Jones, C., Abt, J., Neff, E., Castro, E. Post-concussion changes in ERPs of cognitive inhibition are correlated with concussion outcomes.

**Ledwidge, P.S.**, Hartland, L., & Abt, J. The clinical utility of electroencephalography for sports-related concussion rehabilitation: barriers and opportunities.

**Ledwidge, P.S.**, Newman, S.D., Wallace, J.S., & Hudac, C.M. Pre-to-post season changes in working-memory EEG dynamics in Black adolescent football athletes.

*Peer-Reviewed*

**Ledwidge, P.S.**, Jones, C., Huston, C.\*, Trenkamp, M.\*, Bator, B.\*, & Laeng, J. (2022).

Electrophysiology reveals cognitive-linguistic impairments after concussion. *Brain &*

*Language*, 223, 105116. PMID: 35970083. DOI: 10.1016/j.bandl.2022.105166. Times cited: 0

**Ledwidge, P.S.**, Patterson, J.N., Molfese, D.L., & Honaker, J.A. (2019). Clinical utility of oculomotor and electrophysiological measures in identifying concussion history. *Clinical*

*Journal of Sport Medicine*, 29(4), 292-297. PMID: 31241531.

DOI: 10.1097/JSM.0000000000000512. Times cited: 10

**Ledwidge, P.S.** (2018). The impact of sports-related concussions on the language system: A

case for event-related brain potentials. *Annals of Behavioral Neuroscience*, *1*, 36-46.

**Ledwidge, P.S.**, Foust, J.L.\*, & Ramsey, A.T.\* (2018). Recommendations for developing an EEG laboratory at a primarily undergraduate institution. *Journal of Undergraduate*

*Neuroscience Education*, 17(*1*), A10-A19. PMID: 30618494. Times cited: 23

Hudac, C.M., Cortesa, C.S., **Ledwidge, P.S.**, & Molfese, D.L. (2018). History of concussion impacts electrophysiological correlates of working memory. *International Journal of Psychophysiology*, *132*, 135-144. PMID: 29024682. DOI:10.1016/j.ijpsycho.2017.09.020

Times cited: 25

**Ledwidge, P.S.**, & Molfese, D.L. (2016). Long-term effects of concussion on electrophysiological indices of attention in varsity college athletes: An event-related potential and standardized low-resolution brain electromagnetic tomography approach. *Journal of Neurotrauma*, *33*, 2081-2090. PMID: 27025905. DOI:

10.1089/neu.2015.4251 Times cited: 52

**Ledwidge, P.S.** (2015). Review of the book *Understanding Traumatic Brain Injury: Current Research and Future Directions*, edited by H. S. Levin, D. H. K. Shum & R. C. K.

Chan. *Developmental Neuropsychology*, *40*(2), 98-100. Times cited: 0

**Ledwidge, P.S.** (2014). The importance of divergent thinking for research in graduate school

and beyond. *APS Observer*, *27*(5). Times cited: 3

*Invited Book Chapters*

**Ledwidge, P.S.**, Masterson, C., Meinders,A.\*,& Molfese, D.L. Becoming Part of a

Large and Successful Research Team. In F. Leong (Ed.), *The Psychology Research Handbook: A primer for graduate students and research assistants.* Newbury Park, CA: Sage Publishers. In press. Times cited: 0

**Ledwidge, P.S.** (2022). Psychosocial recovery issues and interventions following traumatic

brain injury. In Hux, K. & Dinnes, C. *Assisting Survivors of Traumatic Brain Injury* (3rd edition). Times cited: 0

**INVITED ORAL PRESENTATIONS**

09/22/2022 **Ledwidge, P.S.**, Jones, C., Huston, C.\*, Trenkamp, M.\*, Bator, B.\*, & Laeng, J.

Electrophysiology reveals cognitive-linguistic impairments after concussion. The 2022 Joint Conference on Brain Injury (New York, NY)

09/30/2021 **Ledwidge, P.S.** “The Neurophysiology of Sports Concussion.” *DePauw University.*

12/02/2020 **Ledwidge. P.S.** “Long-term impacts of sports-related concussions.” *Hillcrest Rotary.*

11/10/2020 **Ledwidge. P.S.** “Late-life impacts of traumatic brain injury.” *Kiwanis Club of Berea*.

10/06/2020 **Ledwidge. P.S.** “Pediatric Concussion: Outcomes, rehabilitation, & current research.” *Rotary Club of Berea*.

09/01/2020 **Ledwidge, P.S.** “Neurocognitive health and aging.” *Science of Health Series.* Baldwin Wallace University.

10/04/2019 **Ledwidge, P.S.** “Neurocognitive health and aging.” *Science of Health Series.* Baldwin Wallace University.

04/04/2019 **Ledwidge, P.S.** & Jones, C. “BW’s Concussion Research and Clinical Management Programs.” *Pizza with a Professor*. Baldwin Wallace University.

04/26/2018 Ramsey, A.T.\*, Foust, J.L.\*, & **Ledwidge**, **P.S.** “A late slow frontal positivity ERP reflects the resolution of contextual ambiguity during narrative discourse comprehension.” *Ovation*. Baldwin Wallace University.

03/24/2018 **Ledwidge, P.S.** “A late slow frontal positivity ERP reflects the resolution of contextual ambiguity during narrative discourse comprehension.” *Data Blitz*. Cognitive Neuroscience Society Annual Meeting.

11/1/2017 **Ledwidge, P.S.** “Effects of sports-related concussions on the brain: Questions, answers, future directions… and questions.” *Proseminar in Experimental Psychology.* Cleveland State University.

11/28/2016 **Ledwidge, P.S.** “Altered ERP correlates of attention and working memory associated with a history of sports-related concussion.” *Center for Brain, Biology, & Behavior*. University of Nebraska-Lincoln.

06/03/2014 Cortesa, C., & **Ledwidge, P.S.** “The Science of Athletics: How Concussions Change the Brain,” *Osher Lifelong Learning Institute*. University of Nebraska-Lincoln.

**PUBLISHED ABSTRACTS**

**Ledwidge, P.S.**, Jones, C., Huston, C.\*, Trenkamp, M.\*, Bator, B.\*, Laeng, J, Neff, E.\*, &

Castro, E.\* Electrophysiology reveals cognitive-linguistic impairments after concussion: Evidence from the N400 ERP. (2022). *Journal of Head Trauma Rehabilitation*, 37(6), E583-584. Meeting Abstract: The 2022 Joint Conference on Brain Injury (New York, NY).

Morgan, A., **Ledwidge, P.**, Blankenburg, J.\*, Petrus, J.\*, Guggenheim, R.\*, Costlow, H.\*,

Johnson, A.\*, Kadlowec, J. (2023). A novel study examining cognitive-motor interference after anterior cruciate ligament reconstruction. *International Society of Biomechanics in Sports*, *41*(1).

**PEER-REVIEWED ABSTRACTS (UNPUBLISHED)**

Costlow, H.\*, Guggenheim, R.\*, Blankenburg, J.\*, Petrus, J.\*, Johnson, A.\*, Abt, J., Calcei, J.,

Voos, J., Polousky, J., Morscher, M., Montgomery, A., Kadlowec, J., Morgan, A., & **Ledwidge, P.S**. The N200 Event-Related Potential Correlate of Cognitive-Motor Interference in ACL-Reconstructed Athletes: Preliminary Findings. Abstract accepted to the 2023 Society for Neuroscience Annual Meeting.

**Ledwidge, P.S.**, Morgan, A., Kadlowec, J., Montgomery, A., Abt, J., Polousky, J., Morscher,

M., Calcei, J., & Voos, J. Dual-task interference after ACL reconstruction and risk prediction for secondary injury: An EEG and motion analysis approach. Abstract submitted to the 2024 Pediatric Research in Sports Medicine Conference.

Guggenheim, R.\*, Costlow, H.\*, Blankenburg, J.\*, Petrus, J.\*, Johnson, A.\*, Kadlowec, J.,

Morgan, A., & **Ledwidge, P.S.** (2022). A novel study examining cognitive-motor interference after anterior cruciate ligament reconstruction: Feasibility of a combined event-related potential (ERP) and 3D motion capture study. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*.

Gentilin, A.\*, & **Ledwidge, P.S.** (2022). The association between childhood brain injury and

internalizing behaviors in young adults: Examining the role of verbal function and its neural correlates. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*.

Guggenheim, R.\*, Costlow, H.\*, Blankenburg, J.\*, Petrus, J.\*, Johnson, A.\*, Kadlowec, J.,

Morgan, A., & **Ledwidge, P.S.** (2022). A novel study examining cognitive-motor interference after anterior cruciate ligament reconstruction: Feasibility of a combined event-related potential (ERP) and 3D motion capture study. *Society for Neuroscience Annual Meeting: Undergraduate Floor.*

**Ledwidge, P.S.**, Jones, C., Huston, C.\*, Trenkamp, M.\*, Bator, B.\*, Laeng, J., Neff, E., &

Castro, E. (2022). Electrophysiology Reveals Cognitive-Linguistic Deficits after Concussion: Evidence from the N400 ERP. Early TBI Conference.

Huston, C.\*, **Ledwidge, P.S.** (2019). The impact of concussions on the N200 ERP during a

cognitive inhibition task: Preliminary results. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*. College of Wooster. Wooster, OH.

**Ledwidge, P.S.,** Trenkamp, M.\*, Huston, C.\*, Ramsey, A., & Mizerowski, A.\* (2019). The

possibility of receiving a text message on a cell phone delays P300 latencies recorded during an auditory oddball. *Association for Psychological Science Annual Convention.* Washington, D.C.

**Ledwidge, P.S.**, Ramsey, A.T.\*, & Huston, C.\* (2019). The frontal post-N400 positivity is

elicited to unexpected-plausible words in low, but not weak, constraining contexts. *Cognitive Neuroscience Annual Meeting*. San Francisco, CA.

Ramsey, A.T.\*,Mizerowski, A.\*, & **Ledwidge, P.S.**\*(2018). Cell phones have our attention:

Effects of cell phone distraction on the P300 response in an auditory oddball paradigm. Poster presented at the *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*. Ohio Wesleyan University. Delaware, OH.

**Ledwidge, P.S**., Ramsey, A.T.\*, & Foust, J.L.\* (2018). A late slow frontal positivity ERP

reflects the resolution of contextual ambiguity during narrative discourse comprehension. *Cognitive Neuroscience Society Annual Meeting*. Boston, MA.

Molfese, P.J., **Ledwidge, P.**, Zosky, J., Masterson, C., Shattuck, J., Burnfield, J.M., & Molfese, D.L. (2016). Cortical thickness differences in retired athletes with a history of concussion. Poster presented at *The* *Organization for Human Brain Mapping*.

Geneva, Switzerland.

**Ledwidge, P.S.**, & Molfese, D.L. (2015). Effects of concussion on selective attention in

college varsity football athletes: A standardized low-resolution ERP tomography (sLORETA) study. Poster presented at the *Big Ten/CIC-Ivy League TBI Research Collaboration Summit*. Chicago, IL.

**Ledwidge, P.S.**, Cortesa, C.S., & Molfese, D.L. (2014). Neuropsychological performance moderates P3b amplitude elicited during an oddball task: An ERP study with college- athletes. Poster presented at the *4th Annual* *Traumatic Brain Injury Conference*. Washington, DC.

Bonebright, T.L., Muñoz, A. E.\*, & **Ledwidge, P.S.** (2014). Cueing of visual attention using auditory stimuli. Poster presented at the *Association for Psychological Science*

*Convention*. San Francisco, CA.

**Ledwidge, P.S.**, Lear, M., Roberts, M.E., & Evans, J.\* (2014). Interactions between

personality, cognitive resources, and reward processing in successful emotional regulation. Poster presented at the *Association for Psychological Science* *Convention*. San Francisco, CA.

**Ledwidge, P.S.**\*, Lear, M.\*, &Hall, C.\* (2013). Development and validation of a Flow Scale using the International Personality Item Pool (IPIP). Poster presented at the

*Association for Psychological Science Convention*. Washington, DC.

Lear, M.\*, **Ledwidge, P.S.**\*, & Roberts, M.E. (2013). The effects of ego depletion and personality on emotion regulation. Poster presented at the *Midwestern Psychological Association Conference.* Chicago, IL.

**CONFERENCE PRESENTATIONS (OTHER)**

Guggenheim, R.\*, Costlow, H.\*, Blankenburg, J.\*, Petrus, J.\*, Johnson, A.\*, Kadlowec, J.,

Morgan, A., & **Ledwidge, P.S.** (2023). A novel study examining cognitive-motor interference after anterior cruciate ligament reconstruction: Preliminary findings from the N200 event-related brain potential. Baldwin Wallace Ovation. April 27, 2023.

Blankenburg, J.\*, Petrus, J.\*, Johnson, A.\*, Guggenheim, R.\*, Costlow, H.\*, Kadlowec, J.,

Morgan, A., & **Ledwidge, P.S.** (2023). A novel study examining cognitive-motor interference after anterior cruciate ligament reconstruction: Feasibility of a 3D motion capture study. Baldwin Wallace Ovation. April 27, 2023.

Dennison, E.^, **Ledwidge, P.S.** (2023). The relationship between pediatric traumatic brain injury

and internalizing mental health symptoms in young adulthood: Preliminary Findings. Poster presented at: Baldwin Wallace Ovation; April 27, 2023; Berea, OH

Hall B\*, Gentilin A\*, Menke S\*, Flynn M\*, James C\*, Mansell J\*, Witt M\*, Caraccio O\*,

Lantow S\*, Sengvoravong M\*, Shepherd J\*, **Ledwidge P**. (2023). The relationship between child traumatic brain injury and internalizing symptoms in adults: A preliminary study of the mechanistic role of EEG biomarkers of lexical-semantic processing. Poster presented at: Baldwin Wallace Ovation; April 27, 2023; Berea, OH

Buehner D\*, Costlow H\*, Eitel J\*, Menke S\*, Phillips J\*, Skrzypek M\*, **Ledwidge P**. A

preliminary study examining the potential role of the ERN ERP waveform to monitor traumatic brain-injury-related internalizing problems. (2023). Poster presented at: Baldwin Wallace Ovation; April 27, 2023; Berea, OH.

Guggenheim, R.\*, Sloane, E.\*, & **Ledwidge, P.S.** The effects of virtual reality training on

athletes’ visual tracking abilities. (2023). Poster presented at: Baldwin Wallace Ovation; April 27, 2023; Berea, OH.

**Ledwidge, P.S.**, Jones, C., Huston, C.\*, Trenkamp, M.\*, Bator, B.\*, & Laeng, J.

Electrophysiology reveals cognitive-linguistic impairments after concussion. (2021). *Baldwin Wallace Faculty Showcase.*

Guddamanugu, S.\*, Kuszajewski, E.\*, Neff, E.\*, Blake, K.\*, Galaida, N.\*, **Ledwidge, P.S.**

(2019). The effects of concussion on neural correlates of lexical-semantic retrieval: Event-related potential evidence. *Northeast Ohio Concussion Summit.* Baldwin Wallace University.Berea, OH.

Huston C.\*, **Ledwidge, P.S.** (2019). The impact of concussions on the N200 ERP during a

cognitive inhibition task: Preliminary results. *Northeast Ohio Concussion Summit.* Baldwin Wallace University.Berea, OH.

**Ledwidge, P.S.,** Trenkamp, M.\*, Huston, C.\*, Ramsey, A., & Mizerowski, A.\* (2019). The

possibility of receiving a text message on a cell phone delays P300 latencies recorded during an auditory oddball. *Baldwin Wallace University Ovation.* Berea, OH.

**Ledwidge, P.S.**, Ramsey, A.\*, & Huston, C.\* (2019). The frontal post-N400 positivity is

elicited to unexpected-plausible words in low, but not weak, constraining contexts. *Baldwin Wallace University Ovation.* Berea, OH.

Ramsey, A.T.\*, & Foust, J.L.\*, & **Ledwidge, P.S**., (2018). A late slow frontal positivity ERP reflects the resolution of contextual ambiguity during narrative discourse comprehension. *Baldwin Wallace University Ovation.* Berea, OH.

O’Doherty, J.G.\*, **Ledwidge, P.S.**, & Molfese, D.L. (2015). Comparison of neurocognitive

tests used in the assessment of concussion. Poster presented at the *University of Nebraska-Lincoln Undergraduate and Creative Experiences Conference*. Lincoln, NE.

Meinders, A.M.\*, **Ledwidge, P.S.**, Maerlender, A.C., & Molfese, D.L. (2015). Sex differences in working memory of college athletes: An electrophysiological study. Poster presented at the *University of Nebraska-Lincoln Undergraduate and Creative Experiences*

*Conference*. Lincoln, NE.

Real, K.\*, **Ledwidge, P.S.**, & Molfese, D.L. (2014). The search for a biomarker of concussion. Poster presented at the *University of Nebraska-Lincoln Undergraduate and*

*Creative Experiences Conference.* Lincoln, NE.

Fangmeier, A.L.\*, Cortesa, C. S., **Ledwidge, P.S.**, & Molfese, D.L. (2014). Working memory

in athletes diagnosed with traumatic brain injury. Poster presented at the *University of*

*Nebraska-Lincoln Undergraduate and Creative Experiences Conference*. Lincoln, NE.

Meinders, A.M.\*, **Ledwidge, P.S.**, & Cortesa, C.S. (2014). Effects of concussion on selective attention and executive function in athletes. Poster presented at the *University of Nebraska Lincoln Undergraduate and Creative Experiences Conference*. Lincoln, NE.

Lear, M.\*, **Ledwidge, P.S.**\*, & Roberts, M.E. (2013). The effects of ego depletion and personality on emotion regulation. Poster presented at the *DePauw University Senior Showcase*. Greencastle, IN.

**MENTORING & TRAINING**

Master’s Students

2023- Brickman, Kirstiana, Western Kentucky University, M.S. in Psychological Sciences

2022-2023 Dennison, Emily, Baldwin Wallace University, M.S. in Speech & Language Pathology

2021-2022 Thadeus, Kailee, Baldwin Wallace University, M.S. in Speech & Language Pathology

2020-2021 Semanik, Alexis, Baldwin Wallace University, M.S. in Speech & Language Pathology

Undergraduate Senior Theses Supervised: *Neuroscience*

2023 Guggenheim, Ryan. “Impact of Anterior Cruciate Ligament (ACL) injury and reconstruction on ERP indices of cognitive motor control”

2022 Laughner, Alyssa. “Implications of Undiagnosed Depression on Attention & Memory”

2022 Castro, Elizabeth. “The Association Between a History of mTBI and The Default Mode Network in College-Aged Contact Sport Athletes”

2021 Neff, Erin. “Neural correlates of emotional processing in children: Implications for concussion management”

2021 Kuszajewski, Ellen. “Neural correlates of emotional processing in children: Implications for concussion management”

2019 Trenkamp, Madison. “Development of a Stimulus Set to be used in a Sentence Verification Task to Examine the Effects of Sports-Related Concussions on the N400 ERP.” Baldwin Wallace University.

Undergraduate Senior Theses Supervised: *Psychology*

2018 Ramsey, A. “Smartphones have our attention: Effects of cell phone distraction on the P300 ERP elicited in an auditory oddball paradigm.” Baldwin Wallace University.

2014 Meinders, A. “Sex Differences in Working Memory of College Athletes: An Electrophysiological Study. University of Nebraska-Lincoln.

2014 Mason, S. “Effects of Executive Control and Emotion Regulation on Anxiety. University of Nebraska-Lincoln.

**SYMPOSIA ORGANIZED**

10/20/19 *Northeast Ohio Concussion Summit (NOCS)*

 Baldwin Wallace University, Berea, OH

**PROFESSIONAL MEMBERSHIPS**

North American Brain Injury Association, Pediatric Research in Sports Medicine (PRiSM), Society for Neuroscience, Society for Psychophysiological Research, Brain Injury Association of Ohio, International Neuropsychological Society, Cognitive Neuroscience Society, Association for Psychological Science, American Psychological Association, Faculty for Undergraduate Neuroscience

**PROFESSIONAL SERVICE**

Officer

*Program Committee Member*, EaRLY TBI

Ad hoc Reviewer

*Psychology of Sport and Exercise, Brain Injury, Clinical Journal of Sport Medicine, Journal of Athletic Training, International Journal of Psychophysiology, Developmental Neuropsychology*

Editorial Board, Member

2017-2019 *Annals of Behavioral Neuroscience*

2015 *Developmental Neuropsychology*, Associate Guest Editor, 2015, *40*(1-2), Special

Issue: “The Effects of Concussion in Youth Sports on the Brain”

Institutional- Baldwin Wallace University

2022-2023 Chair, Sports-Research Advisory Committee

2021-2023 Coordinator, Kathryn Grover Harrington & Robert A. Harrington Visiting Distinguished Professorship

2021-2023 Member, Research Advisory Council

2020-2023 Member, Graduate Affairs Committee

2020-2023 Assessment Coordinator, Department of Psychology

2020 Search Committee for Director of Office of Sponsored Programs & Research

2020 Search Committee for Dean of Graduate Studies & Research

2018-2023 Member, Concussion Management Team

2018-2020 Supervisor, Psychology Student Research Coordinator

**COURSES TAUGHT**

2023-Present *Honors* Introduction to Biopsychology (PSYS160), Western Kentucky University

2023-Present Introduction to Biopsychology (PSYS160), Western Kentucky University

2022-Present #Laboratory in Cognitive Neuroscience (NRO 340), Baldwin Wallace University

2021-Present Thesis in Psychology (PSY 381), Baldwin Wallace University

2021-Present Research Methods in Psychology (PSY 380), Baldwin Wallace University

2020-Present #Introduction to Brain & Behavior (NRO 110), Baldwin Wallace University

2019-Present Lab in Statistical Methods (PSY 279), Baldwin Wallace University

2019-Present #Neurocognitive Disorders (PSY 463), Baldwin Wallace University

2019-Present #iThink: How “smart” technology is shaping the mind (FYE 100), BWU

2018-Present Neuroscience Senior Thesis (NRO 491-493), Baldwin Wallace University

2018-Present Psychology Senior Thesis (PSY 492), Baldwin Wallace University

2018-Present #Faculty-Student Collaboration (PSY 459), Baldwin Wallace University

2018-Present #Cognitive Neuroscience (PSY 363), Baldwin Wallace University

2018-Present Physiological Psychology (PSY 303), Baldwin Wallace University

2017-Present Elements of Statistics (PSY 278), Baldwin Wallace University

2017-Present Principles of Psychological Science (PSY 100), Baldwin Wallace University

2014 Behavioral Neuroscience (PSY 465/BIOS 419), University of Nebraska-Lincoln

# new courses developed