



Curriculum Vitae
Amanda C. Glueck
August 2021
University of Kentucky
College of Medicine
Assistant Professor of Neurology
Research Title Series
Office Phone: 859-323-7962
Cell Phone: 859-321-1877
Email: amanda.glueck@uky.edu



EDUCATION

PhD in Experimental Psychology

August 2015

Texas Christian University, Fort Worth, Texas

Program: Doctorate in Experimental Psychology

Advisor: Mauricio R. Papini, PhD

MS in Experimental Psychology

December 2012

Texas Christian University, Fort Worth, Texas

Advisor: Mauricio R. Papini, PhD

BS in Psychology

Minor in Psychobiology

May 2010

Centre College, Danville, Kentucky

EMPLOYMENT

Assistant Professor of Neurology

July 2018- current

University of Kentucky, Lexington, KY

Assistant Professor of the Sports Medicine Research Institute

September 2016- June 2018

University of Kentucky, Lexington, KY

Post-Doctoral Research Fellow

August 2015- July 2016

Henry M. Jackson Foundation

Naval Medical Research Center, Silver Spring, MD

Mentor: LCDR Peter B. Walker, PhD, MSC, USN

Graduate Teaching Assistant

August 2011- August 2015

Texas Christian University, Fort Worth, TX

Graduate Research Assistant
January 2011-August 2015
Texas Christian University, Fort Worth, TX
Mentor: Mauricio R. Papini, PhD

PROFESSIONAL AFFILIATIONS

American Psychological Association
Graduate Student Representative for Division 6, 2011-12
Society for Neuroscience
National Neurotrauma Society
TEAM (Training, Education, and Mentoring) Neuroscience- Newsletter Editor 2020-present
Association of the United States Army
Medical and Scientific Advisory Board member
American Heart Association

AWARDS

2010 Centre College's Psychology and Psychobiology Student of the Year
2015 Travel Grant for DFW Area Neuroscience Research Award
2016 Superior Performance Award: Naval Medical Research Center

RESEARCH FUNDING

Current

Office of Naval Research, Glueck (PI)

2018-2021

Broad Agency Announcement (N0014-18-S-B001)

\$734k

Title: Stress Augmentation with Immersive Virtual Reality and Augmented Reality Technologies (SAIVAR-Tech)

Objective: Evaluated the effect of immersive virtual reality and augmented reality technologies on improvement of stress resilience and determine the effectiveness of commercially available immersive virtual reality and augmented reality technologies for stress reduction in healthy populations.

Role: Principal Investigator

Neuroscience Research Priority Area (NRPA) Early Career Investigator Pilot Grant, Glueck (PI)

2021-2022

University of Kentucky (Internal) Grant

\$25,000

Title: Mixed Reality Training for Chronic Stroke Patients (MERIT)

Objective: Explore the neuropsychological, balance, and motor effects of mixed reality training in chronic stroke patients.

Role: Principal Investigator

Previous

Wings for Life Spinal Cord Research Foundation, Sawaki (PI)

2019-2021

Wings for Life Spinal Cord Research Foundation

\$225k

Title: ImprovinG hand recovery with Neuromodulation In TEtraplegia (IGNITE trial)

Objective: Investigating the effects of direct current stimulation paired with intensive motor training on motor recovery following a cervical spinal cord injury.

Role: Co-Investigator

University of Kentucky Neurology Pilot Grant, Glueck (PI)

2018-2019

University of Kentucky (Internal) Grant

\$20,000

Title: Repeated administration of exogenous beta-hydroxybutyrate improves post-concussion health outcomes.

Objective: Determine the effects of repeated administration of beta-hydroxybutyrate following a mild traumatic brain injury

Role: Principle Investigator

University of Kentucky Neurology Pilot Grant, Han (Co-PI)

2017-2018

University of Kentucky (Internal) Grant

\$20,000

Title: Dehydration and Rehabilitation in Neurological Concussions (DRiNC)

Objective: Provide proof of concept for the role hydration plays in mild traumatic brain injury. Specifically, the study will focus on the role fluid restriction plays on axonal injury and cognition.

Role: Co- Principal Investigator

Igniting Research Collaboration (IRC), Bachstetter (PI)

2017-2018

University of Kentucky (Internal) Grant

\$29,604

Title: Fluid Balance and Traumatic Brain Injury

Objective: Provide proof of concept for the role hypovolemic dehydration plays on axonal injury and cognition following a mild traumatic brain injury.

Role: Co-Investigator

PUBLICATIONS

Han, D. Y., Sullivan, P. G., Pasagic, S., Watson, W. D., & **Glueck, A. C.** (2020). Neurocognitive effects of exogenously administered beta-hydroxybutyrate in adults: A proof of concept study. *Neurology and Neurobiology*, 3, 1-3.

Aulisio, M., **Glueck, A. C.**, Dobbs, M. R., Pasagic, S., & Han, D. Y. (2020). Neurotoxicity and chemoreception: A systematic review of neurotoxicity effects on smell and taste. *Neurologic Clinics*, 38, 965-981.

Aulisio, M., Han, D. Y., & **Glueck, A. C.** (2020) Virtual reality gaming as a neurorehabilitation tool in brain injuries in adults: A systematic review. *Brain Injury*, 34(10), 1322-1330.

Han, D. Y., Pasagic, S., Aulisio, M. C., & **Glueck, A. C.** (2019). Associations between changes in olfactory perception and cognitive symptoms in mild traumatic brain injury. *Current Trends in Neurology*, 13, 49-55.

- Anggelis, E., Powell, E. S., Westgate, P. M., **Glueck, A. C.**, & Sawaki, L. (2019). Impact of motor therapy with dynamic body-weight support on functional independence measures in traumatic brain injury: An exploratory study. *NeuroRehabilitation*, *45*(4):519-524. doi: 10.3233/NRE-192898
- Glueck, A. C.** & Han, D. Y. (2019). Improvement in balance and visuo-motor reaction time after mixed reality action game play: a pilot study. *Virtual Reality*, *17*, 1-7. doi: 10.1007/s10055-019-00392-y.
- Mehalick, M. L. & **Glueck, A. C.** (2018). Examining the relationship and clinical management between traumatic brain injury and pain in military and civilian populations. *Brian Injury*, *32* (11), 1307-1314. 10.1080/02699052.2018.1495339.
- Glueck, A. C.**, Torres, C., & Papini, M. R. (2018). Transfer between anticipatory and consummatory tasks involving reward loss. *Learning and Motivation*, *63*, 105-125.
- Picha, K., Quintana, C., **Glueck, A. C.**, Heebner, N., Hoch, M., Abt, J. (2018). Reliability of five novel reaction time and cognitive load protocols. *Journal of Sports Rehabilitation*, *27*(5), 1-15.
- Koehl, L. M., Walls, B. D., Brothers, S. L., Morris, S. M., **Glueck, A. C.**, Schmitt, F. A., Berry, D. T. R., & Han, D. Y. (2018). Convergent and discriminant validity of the immediate post-concussion assessment and cognitive testing battery (ImPACT) in young athletes. *Applied Neuropsychology: Child*, *8*(3), 253-263. DOI: 10.1080/21622965.2018.1436440.
- Kawasaki, K., Annicchiarico, I., **Glueck, A. C.**, Morón, I., & Papini, M. R. (2017). Reward loss and the basolateral amygdala: A function in reward comparisons. *Behavioural Brain Research*, *331*, 205-213.
- Walker, P. B., Mehalick, M. L., **Glueck, A. C.**, Tschiffely, A. E., Cunningham, C. A., & Norris, J. N. (2017). A decision tree framework for understanding blast-induced mild traumatic brain injury in a military medical database. *Journal of Defense Modeling and Simulation*, *14*(4): 389-398.
- Torres, C., **Glueck, A. C.**, Conrad, S. E., Morón, I., & Papini, M. R. (2016). Dorsomedial striatum lesions affect adjustment to reward uncertainty, but not to reward devaluation of omission. *Neuroscience*, *332*, 13-25.
- Annicchiarico, I., **Glueck, A. C.**, Cuenya, L., Kawasaki, K., Conrad, S. E., & Papini, M. R. (2016). Complex effects of reward upshift on consummatory behavior. *Behavioral Processes*, *129*, 54-67.
- Burns-Cusato, M., **Glueck, A. C.**, Merchak, A.R., Palmer, C. L., Riekamp, J. D., Duggan, I. S., Hinds, R. T., & Cusato, B. (2016). Threats from the past: Barbados green monkeys (*Chlorocebus sabaeus*) fear leopards after centuries of isolation. *Behavioral Processes*, *126*, 1-11.
- Cuenya, L., Annicchiarico, I., Serafini, M., **Glueck, A. C.**, Mustaca, A. E., & Papini, M. R. (2015). Effects of shifts in food deprivation on consummatory successive negative contrast. *Learning and Motivation*, *52*, 11-21.
- Kawasaki, K., **Glueck, A. C.**, Annicchiarico, I., & Papini, M. R. (2015). Function of the centromedial amygdala in reward devaluation and open-field activity, *Neuroscience*, *303*, 73-81.
- Glueck, A. C.**, Dennis, T. S., Perrotti, L. I., Torres, C., & Papini, M. R. (2015). Brain expression of pCREB in rats exposed to consummatory successive negative contrast. *Neuroscience Letters*, *587*, 93-97.
- Ortega, L. A., **Glueck, A. C.**, & Papini, M. R. (2014). Anisomycin disrupts behavior after incentive downshift via conditioned taste aversion. *International Journal of Psychology & Psychological Therapy*, *14*, 71-84.

- Ortega, L. A., **Glueck, A. C.**, Daniel, A. M., Prado-Rivera, M. A., White, M. M., & Papini, M. R. (2014). Memory interfering effects of chlordiazepoxide on consummatory successive negative contrast. *Pharmacology Biochemistry & Behavior*, *116*, 96-106.
- Burns-Custao, M., Custao, B., & **Glueck, A. C.** (2013). Barbados green monkeys (*Chlorocebus sabaues*) recognize ancestral alarm calls after 350 years of isolation. *Behavioural Processes*, *100*, 197-199.
- Ortega, L. A., Prado-Rivera, M. A., Cardenas-Poveda, D. C., McLinden, K. A., **Glueck, A. C.**, Gutierrez, G., Lamprea, M. R., & Papini, M. R. (2013). Tests of the aversive summation hypothesis in rats: Effects of restraint stress on consummatory successive negative contrast and extinction in the Barnes maze. *Learning & Motivation*, *44*, 159-173.
- Ortega, L. A., **Glueck, A. C.**, Uhelski, M., Fuchs, P. N., & Papini, M. R. (2013). Role of the ventrolateral orbital cortex and medial prefrontal cortex in incentive downshift situations. *Behavioural Brain Research*, *244*, 120-129.

MANUSCRIPTS IN PREPARATION

- Glueck, A. C.** & Han, D. Y. Immersive virtual reality training improves memory and attention in healthy participants.
- Kizhakkadathu, J., Aulisio, M., Han, D. Y., & **Glueck, A. C.** Beta-hydroxybutyrate improves memory and processing speed in a healthy population.
- Aulisio, M., Pasagic, S., **Glueck, A. C.**, Lee, D. O., Ainger, T., & Han, D. Y. Repeat traumatic brain injury complications with localized dissociative amnesia of twenty-two years.
- Williams, M. W., Karr, J. E., Day, A. M., **Glueck, A. C.**, & Han, D. Y. (Under review). Post-traumatic headache and psychiatric outcomes in adolescents with concussion.
- Glueck, A.C.**, Aulisio, M. C., Koehl, L. M., Qaiser, S., Baumann, R.J., & Han, D.Y. Increased risk of affective distress associated with photo- and phono-sensitivity in pediatric mild traumatic brain injury. *Pediatric Neurology*.

CONFERENCE PRESENTATIONS

International

- Han, D. Y., Zhou, Z., Quintana, C., & **Glueck, A. C.** (2018, March) Dysexecutive symptom clusters in mild traumatic brain injury dysosmia. International Society of Neurogastronomy Symposium, Lexington, KY.
- Papini, M. R., **Glueck, A. C.**, Conrad, S. E. (2015, September) Pandora's box in the animals learning lab: From expectancy to habits, and back. International Congress, Spanish Society for Comparative Psychology, Seville, Spain.
- Kawasaki, K., **Glueck, A. C.**, Annicchiarico, I., & Papini, M. R. (2014, November) Lidocaine infusions in the centraomedial amygdala reduces successive negative contrast, without affecting anticipatory negative contrast. Society for Neuroscience, Washington, DC.
- Glueck, A. C.** & Papini, M. R. (2014, September) Taste-taste transfer of training between Pavlovian and consummatory task. Sociedad Española de Psicología Comparada, Braga, Portugal.

- Annicchiarico, I., **Glueck, A. C.**, Cuenya, L., Kawasaki, K., & Papini, M. R. (2014, September) Complex effects of reward upshift on consummatory behavior in rats. Biennial Meeting, International Society for Comparative Psychology, Bogota, Colombia.
- Cuenya, L., Annicchiarico, I., **Glueck, A. C.**, Mustaca, A. E., & Papini, M. R. (2014, September). Consummatory successive negative contrast in rats: Memory interference versus incentive learning. Biennial Meeting, International Society for Comparative Psychology, Bogota, Colombia.
- Papini, M. R., **Glueck, A. C.**, Dennis, T. S., Perrotti, L. I., & Torres, C. (2013, November) Brain expression of pCREB in rats exposed to incentive downshift. Society for Neuroscience, San Diego, CA.
- Glueck, A. C.**, Torres, C., & Papini, M. R. (2013, September). Transfer of training between consummatory and anticipatory tasks involving incentive downshift. Spanish Society for Comparative Psychology, San Sebastian, Spain.
- Glueck, A. C.**, Ortega, L. A., Prado-Rivera, M. A., Cardenas-Poveda, D. C., McLinden, K. A., Gutierrez, G., Lamprea, M. R., & Papini, M. R. (2012, October). Restraint stress enhances the effects of incentive downshift in consummatory negative contrast and Barnes-maze extinction. Society for Neuroscience, New Orleans, LA.
- Ortega, L. A., Uhelski, M., **Glueck, A. C.**, Fuchs, P. N., & Papini, M. R. (2011, November). Lesions of the ventro-lateral orbital cortex, but not of the medial prefrontal cortex, impair adjustment to incentive downshifts. Society for Neuroscience, Washington, DC.

National

- Glueck, A. C. & Han, D. Y. (2019, August) Stress Augmentation with Immersive Virtual Reality and Augmented Reality Technologies (SAIVAR-Tech): Stress and Neurocognitive Outcomes Pilot Data. Military Health Systems Research Symposium, Kissimmee, FL.
- Bergin, R. T., Heebner, N. R., DeRaymond, C., **Glueck, A. C.**, Abt, J., & Best, S. (2019, May) The effect of acute sleep restriction on running mechanics during and exhaustive run. American College of Sports Medicine Annual Meeting, Orlando, FL.
- Best, S., Bergin, R. T., DeRaymond, C., Heebner, N. R., **Glueck, A. C.**, & Abt, J. (2019, May) Landing mechanics and muscular strength are not altered following acute sleep restriction. American College of Sports Medicine Annual Meeting, Orlando, FL.
- Morris, S. M., Collins, C. L., Wasserman, E. B., & **Glueck, A. C.** (2019, April) Return to play probabilities by division after new concussion in college football. Society for Advancement of Violence and Injury Research, Cincinnati, OH.
- Picha, K., Quintana, C., **Glueck, A. C.**, Heebner, N., & Abt, J. (2018, May) Reliability of five novel reaction time and cognitive load protocols. American College of Sports Medicine Annual Meeting, Minneapolis, MN.
- Mattacola, C. G., Han, D. Y., Crots, J., **Glueck, A. C.**, Abt, J., & Heebner, N. (2017). Concussion Characteristics in Horse Racing. *British Journal of Sports Medicine*, 51:A62.
- Mattacola, C. G., Johnston, J., Han, D. Y., **Glueck, A. C.**, Abt, J., & Heebner, N. (2017). Effect of Repeated Testing on Equine Helmet Impact Attenuation. *British Journal of Sports Medicine*, 51:A65.

Glueck, A. C., Tschiffely, A. E., Walker, P. B., Norris, J. N., & Ahlers, S. T. (2016, June) Behavioral assessment following blast-exposure in a rat model of mild traumatic brain injury. National Neurotrauma Society Symposium, Lexington, KY.

Tschiffely, A. E., **Glueck, A. C.,** Walker, P. B., Norris, J. N., & Ahlers, S. T. (2016, June) Does blast overpressure induce functional alterations resulting in behavioral and molecular changes? National Neurotrauma Society Symposium, Lexington, KY.

Ortega, L. A., **Glueck, A. C.,** Daniel, A. M., Prado, M. A., & Papini, M. R. (2011, August). Reinterpreting the role of chlordiazepoxide in reward downshift: Emotion, memory, or both? American Psychological Association, Washington, DC.

Glueck, A. C. & Papini, M. R. (2011, August). Psychology around the world—APA divisions reach out. American Psychological Association, Washington, DC.

Regional

Glueck, A. C. & Sawaki, L. (2020, October). Visuo-Motor Integration (VMI) Training using Mixed Reality in Chronic Stroke Patients: A Pilot Study. Poster presented at: 2020 Stroke Care Network Virtual Summit, Lexington, KY.

Day, A. M., Williams, M. W., Ajjan, H., **Glueck, A. C.,** & Han, D. Y. (2020, October). Disruptive behaviors and headache in adolescents after mild traumatic brain injury. Poster presented at: 2020 Neuroscience Clinical Translational Research Symposium, Lexington, KY.

Mascareñas, L., Han, D. Y., & **Glueck, A. C.** (2020, October). Exploring the effects of social distancing, employment status and resilience on anxiety during the COVID-19 pandemic. Poster presented at: 2020 Neuroscience Clinical Translational Research Symposium, Lexington, KY.

Glueck, A. C. & Han, D. Y. (2020, October). Resilience and changing jobs reduces the likelihood of depression during the COVID-19 pandemic. 2020 Neuroscience Clinical Translational Research Symposium, Lexington, KY.

Kizhakkadathu, J., Han, D. Y., **Glueck A. C.** (2019, October). The Effects of β -hydroxybutyrate (BHB) on Cognitive Performance in Healthy Populations. Platform presentation at: 2019 Neuroscience Clinical-Translational Research Symposium, Lexington, KY.

Nguyen, M. N., Koehl, L. M., Han, D. Y., **Glueck A. C.** (2019, October). Photo- and Phono-sensitivity Following mTBI is Associated with Emotional Distress Identified in the Beck Youth Inventory- 2nd Edition for Children. Poster presented at: 2019 Neuroscience Clinical-Translational Research Symposium, Lexington, KY.

Kizhakkadathu, J., Han, D. Y., **Glueck A. C.** (2019, March). Can dietary supplements (β -hydroxybutyrate) improve cognitive performance? Poster presented at: 2019 Clinical-Translational Research Symposium, Lexington, KY

Glueck, A. C., Sullivan, P. G., Watson, W. D., Pasagic, S., Han, D. Y. (2018, October) The neurocognitive effects of exogenous β -hydroxybutyrate Administration in non-clinical and a clinical mTBI case series. Neuroscience Clinical-Translational Research Symposium, Lexington, KY.

Han, D. Y., Zhou, Z., Quintana, C., & **Glueck, A. C.** (2018, April) Mild traumatic brain injury dysexecutive clusters with olfactory symptoms. Center for Clinical and Translational Sciences Spring Conference, Lexington KY.

- Andrews, M., Quintana, C., Picha, K. J., **Glueck, A. C.**, Heebner, N. R., Abt, J. P. (2018, April) The test-retest reliability of the unilateral stance test using the Bertec balance advantage-computerized dynamic posturography in a healthy population. Center for Clinical and Translational Sciences Spring Conference, Lexington KY.
- Quintana, C., Andrews, M. L., Koehl, L. M., **Glueck, A. C.**, Abt, J. P., Han, D. Y. (2017, September) Characteristics of sports-related concussion in an adolescent and young adult sample. Neuroscience Clinical-Translational Research Symposium, Lexington, KY.
- Picha, K. J., Quintana, C., Heebner, N. H., **Glueck, A. C.**, Abt, J. P., & Lephart, S. M. (2017, September) Reliability of five novel reaction time and cognitive load protocols. Neuroscience Clinical-Translational Research Symposium, Lexington KY.
- Tschiffely, A. E., **Glueck, A. C.**, Walker, P. B., & Norris, J. N. (2016, April) The role of concussion and mechanism of injury on post-deployment outcomes following IED mild traumatic brain injury. Nation Capital Area TBI Symposium, Bethesda, MD.
- Burns-Cusato, M., Cusato, B., & **Glueck, A. C.** (2015, March) Threats from the Past: Barbados Green Monkeys Retain Fear of Ancestral Predators for over 350 Years. *Living with Animals 2*, Frankfort, KY.
- Glueck A. C.** & Papini, M. R. (2013, April). Testing frustration theory: Transfer experiments. Southwestern Comparative Psychology Association, Fort Worth, TX.
- Brewer, A., Weaver, L., Pope, H., **Glueck, A. C.** & Cox, C. R. (2012, April). Obsessed with Breasts: The effects of appearance concerns and graphic breast cancer ads on breast self-exam intentions. Poster presented at Texas Christian University Student Research Symposium, Fort Worth, TX.
- Ortega, L. A., Uhelski, M., **Glueck, A. C.**, Fuchs, P. N. & Papini, M. R. (2011, April). Role of the prefrontal cortex in negative contrast. Southwestern Comparative Psychological Association, San Antonio, TX.
- Glueck, A. C.**, Cusato, B., & Burns-Cusato, M. (2010, April). Individual recognition and mating strategies in male Japanese quail. Centre RICE Symposium, Danville, KY.
- Glueck, A. C.**, Cusato, B., & Burns-Cusato, M. (2010, April). Male Japanese quail mating strategies are determined by previous mating success. Southwestern Comparative Psychological Association, Dallas, TX.
- Glueck, A. C.** & Cusato, B. (2009, November). Mate preference and mating strategies in male Japanese quail (*Coturnix japonica*). Annual Meeting of the Kentucky Academy of Science, Highland Heights, KY.
- Glueck, A. C.**, Bottom, S., & Cusato B. (2009, March). Male quail prefer unfamiliar females in a simultaneous choice task. Poster presented at Kentucky Psychological Association, Lexington, KY.

TEACHING EXPERIENCE

Contemporary Learning Theory, *Texas Christian University*, 2015

Research in Primate Behavior in Barbados, *Centre College*, 2013, 2015

Comparative Psychology, *Texas Christian University*, 2013, 2014

Abnormal Child Psychology, *Texas Christian University*, 2013

Teaching Assistant

Co-Instructor

Instructor

Teaching Assistant

Senior Seminar: Psychology , <i>Texas Christian University</i> , 2012	Teaching Assistant
Experimental Psychology: Learning , <i>Texas Christian University</i> , 2012	Lab Instructor
Child Development , <i>Texas Christian University</i> , 2012	Teaching Assistant
Introduction to Psychology , <i>Texas Christian University</i> , 2012	Teaching Assistant
Motivation , <i>Texas Christian University</i> , 2011	Teaching Assistant
Comparative Psychology , <i>Texas Christian University</i> , 2011-2012	Teaching Assistant
Physiological Psychology , <i>Centre College</i> , 2010	Teaching Assistant
Sensation and Perception , <i>Centre College</i> , 2009	Teaching Assistant
Experimental Psychobiology , <i>Centre College</i> , 2008	Teaching Assistant

INVITED LECTURES:

The Effects of beta-hydroxybutyrate (BHB) on Cognitive Performance

SCoBRIC Works in Progress Meeting: University of Kentucky, Lexington, KY
May 2021

Virtual Reality: A Real Game Changer for Stroke Rehabilitation

Grand Rounds: University of Kentucky, College of Medicine, Department of Neurology, Lexington, KY
July 2020

Meet the Professionals at Centre College

2019 Panel Discussion with Centre College Psychology and Behavioral Neuroscience Majors, Danville, KY
November 2019

Meet the Professionals at Centre College

2019 Panel Discussion with Centre College Psychology and Behavioral Neuroscience Majors, Danville, KY
April 2019

AUSA Medical & Scientific Advisory Board Update: TBI & mTBI

2018 Quarterly AUSA Chapter Meeting, Lexington, KY
May 2018

Hey kids, play your video games!: Evaluating the benefits of video game training as potential rehabilitation aids

Invited Lecture at Centre College, Psychology and Behavioral Neuroscience Departments, Danville, KY
April 2018

Concussions: Mechanism of Injury, Prevalence, and Rehabilitation

Athletic Training/ Kinesiology and Health Promotion: Sports Medicine,
University of Kentucky, Lexington, KY: College of Health Sciences
October 2017

Meet the Professionals at Centre College

2017 Panel Discussion with Centre College Psychology and Behavioral Neuroscience Majors, Danville, KY
March 2017

“Sports-related Concussion and mTBI at UK’s Sports Medicine Research Institute”

Grand Rounds: University of Kentucky, College of Health Sciences for Physician’s Assistant Program, Lexington, KY
August 2017

Sports Related Concussion

Athletic Training/ Kinesiology and Health Promotion: Sports Medicine
University of Kentucky, Lexington, KY: College of Health Sciences
September 2016

Animal Communication

Psychology: Fundamentals of Learning
Texas Christian University, Fort Worth, TX: College of Science and Engineering
April 2015

Animal Communication: Language vs. Communication

Psychology: Graduate Level Fundamentals of Learning
Texas Christian University, Fort Worth, TX: College of Science and Engineering
April 2015