



**Manderino, L.M.,** Zachman, A.M., Gunstad, J. (2019). Novel ImPACT validity indices identify protocol invalidity equally in collegiate student-athletes with and without histories of ADHD or academic difficulties. *The Clinical Neuropsychologist*, 33(8), 1455-1466. doi: 10.1080/13854046.2018.1539191

**Manderino, L. M.,** Spitznagel, M. B., Yogi-Morren, D., Kirwan, J. P., Kashyap, S., Gunstad, J. (2018). 25-hydroxyvitamin D levels are associated with cognitive dysfunction in type 2 diabetes and the metabolic syndrome: A preliminary examination. *OBM Geriatrics*, 2(4), 1-9. doi: 10.21926/obm.geriater.1804023

Sanborn, V., Azcarate-Peril, M. A., Updegraff, J., **Manderino, L. M.,** Gunstad, J. (2018). A randomized clinical trial examining the impact of LGG probiotic supplementation on psychological status in middle and older adults. *Contemporary Clinical Trials Communications*, 12, 192-197. doi: 10.1016/j.conctc.2018.11.006

**Manderino, L.M.,** Gunstad, J. (2018). Performance of the Immediate Post-Concussion Assessment and Cognitive Testing protocol validity indices. *Archives of Clinical Neuropsychology*, 33(5), 596-605. doi: 10.1093/arclin/acx102

**Manderino, L.M.,** Gunstad, J. (2018). Collegiate student-athletes with history of ADHD or academic difficulties are more likely to produce an invalid protocol on baseline ImPACT testing. *Clinical Journal of Sports Medicine*, 28(2), 111-116. doi: 10.1097/jsm.0000000000000433

Anderson, J.R., Carroll, I., Azcarate-Peril, M.A., Rochette, A.D., Heinberg, L., Peat, C., Steffen, K., **Manderino, L.M.,** Mitchell, J., Gunstad, J. (2017). A preliminary examination of gut microbiota, sleep, and cognitive function in healthy older adults. *Sleep Medicine*, 38,104-107. doi: 10.1016/j.sleep.2017.07.018

**Manderino, L.M.,** Carroll, I., Azcarate-Peril, M.A., Rochette, A., Heinberg, L., Peat, C., Steffen, K., Mitchell, J., Gunstad, J. (2017). Preliminary evidence for an association between the composition of the gut microbiome and cognitive function in neurologically-healthy older adults. *Journal of the International Neuropsychological Society*, 23(8), 700-705. doi: 10.1017/S1355617717000492

**Manderino, L.M.,** Spitznagel, M.B., Strain, G., Devlin, M., Cohen, R., Crosby, R.D., Mitchell, J.E., & Gunstad, J. (2015). Cognitive dysfunction predicts poorer emotion recognition in bariatric surgery candidates. *Obesity Science & Practice*, 1(2), 97-103. doi: 10.1002/osp4.9

Spitznagel, M.B., Gunstad, J., **Manderino, L.M.,** Heinberg, L. (2015). Liver fibrosis predicts cognitive function following bariatric surgery: A preliminary investigation. *Obesity*, 23(10), 1957-1959. doi: 10.1002/oby.21219

## Under Review

Eagle, S.R., Feder, A., **Manderino, L.M.,** Mucha, A., Holland, C.L., Collins, M.W., & Kontos, A.P. (under review). Concurrent validity of the Vestibular/Ocular Motor Screening (VOMS) Tool with the Dizziness Handicap Inventory (DHI) among adolescents with vestibular symptoms/impairment following concussion.

**Manderino, L.M.,** Gunstad, J. (under review). Improved cognitive performance after suspected concussion: A novel indicator of poor effort on baseline ImPACT testing.

Eagle, S.R., Kissinger-Knox, A.M., Feder, A., **Manderino, L.M.,** Preszler, J., Womble, M., Elbin, R.J., Collins, M.W., & Kontos, A.P. (under review). Temporal changes in concussion symptom factors in adolescents after sport-related concussion.

Preszler, J., **Manderino, L.M.,** Fazio-Sumrok, V., Eagle, S., Holland, C., Collins, M.W., & Kontos, A.P. (under review). Multidomain concussion symptoms in adolescents: A network analysis.

## In Preparation

Kontos, A.P., Eagle, S.R., Kaminski, T.W., Chrisman, S.P.D., Putukian, M., **Manderino, L.M.,** Holland, C., & Collins, M.W. Incidence of concussion and associated risk factors in collegiate soccer: an NCAA-DoD CARE Consortium Study.

Eagle, S.R., **Manderino, L.M.**, Feder, A., French, J., Collins, M.W., & Kontos, A.P. A within-subjects comparison of first and second concussions during collegiate athletic participation: an NCAA-DoD CARE Consortium Study.  
Eagle, S. R., Collins, M., **Manderino, L. M.**, Kegel, N., Fazio-Sumrok, V., Mucha, A., Kontos, A. P. Differentiating concussion subtypes using a multidomain assessment battery.

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## ORAL PRESENTATIONS

### Invited Talks

Spencer, R. & **Manderino, L.M.** (2019, October). *Personality Disorders*. Department of Rehabilitation Psychology and Neuropsychology at the University of Michigan in Ann Arbor, MI.

### Campus and Departmental Talks

Spencer, R. & **Manderino, L.M.** (2019, October). *Neuropathological changes associated with mTBI*. Psychiatry Grand Rounds at the VA Ann Arbor Medical Center in Ann Arbor, MI.

**Manderino, L.M.** & Gunstad, J. (2017, April). *Examination of the Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT) validity indices*. Annual Graduate Research Symposium at Kent State University in Kent, OH.

**Manderino, L.M.** (2021, August). *Concussion Basics*. Didactic for the Primary Care Sports Medicine Fellowship at University of Pittsburgh Medical Center in Pittsburgh, PA.

### Community Outreach Talks

**Manderino, L.M.** (2021, May). *What Parents Should Know About Concussion and Youth Football*. Annual Football Training Camp for the Peters Township Youth Football Organization in Canonsburg, PA.

**Manderino, L.M.** (2021, September). *Concussion Basics: What Parents and Coaches Need to Know*. Youth Basketball Preparedness Clinic Presented by UPMC Centers for Rehab Services in in Canonsburg, PA.

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## CONFERENCE PRESENTATIONS

**Manderino L.M.**, Trbovich A., Bitzer H., Gillie B., & Kontos A.P. (2021, May). Parent-ratings of patient depressive symptoms are predictive of concussion care outcomes in a pediatric sample. Poster presented at the 2021 Virtual Symposium of the Sports Neuropsychology Society.

**Manderino L.M.**, Kissinger-Knox A., Colorito A., Mucha A., Puskar A., Collins M.W., Kontos A.P., & Sherry N. (2021, May). Fear of falling in older adults with mTBI. Poster presented at the 2021 Virtual Symposium of the Sports Neuropsychology Society.

**Manderino, L.M.**, Eagle, S.R., Kissinger-Knox, A., Feder, A., Holland, C.L., Blaney, N.A., Collins, M.W., & Kontos, A.P. (2021, June). Comparison of the Dizziness Handicap Inventory and Vestibular-Ocular Motor Screening in adolescents following sport-related concussion. Poster accepted for presentation at the Annual Meeting of the American College of Sports Medicine in Indianapolis, IN.

**Manderino, L.M.**, Rochette, A. D., Spencer, R., Sciaky, A., Hampstead, B. M., Hogikyan, R., Alexander, N., & Stelmokas, J. (2021, February). Validating the Hopkins Rehabilitation Engagement Rating Scale in an older veteran post-acute rehabilitation sample. Poster presented at the Virtual Annual Meeting of the International Neuropsychological Society in San Diego, CA.

Rochette, A.D., **Manderino, L.M.**, Spencer, R., Sciaky, A., Hampstead, B.M., Hogikyan, R., Alexander, N., & Stelmokas, J. (2021, February). Psychometric evaluation of the Hopkins Rehabilitation Engagement Rating Scale in older Veterans admitted for post-acute rehabilitation. Poster presented at the Virtual Annual Meeting of the International Neuropsychological Society in San Diego, CA.

**Manderino, L.M.,** Gradwohl, B., Mangum, R., & Spencer, R. (2020, February). *A review of symptom inventories for post-concussion syndrome*. Poster presented at the Annual Meeting of the International Neuropsychological Society in Denver, CO.

**Manderino, L.M.,** & Gunstad, J. (2020, February). *History of concussion is associated with affective disturbance and cognitive function at simulated high altitude*. Poster presented at the Annual Meeting of the International Neuropsychological Society in Denver, CO.

**Manderino, L.M.** & Gunstad, J. (2019, February). *ImPACT baseline performance in individuals with clinical elevations in self-reported psychological symptoms*. Poster presented at the Annual Meeting of the International Neuropsychological Society in New York, NY.

**Manderino, L.M.** & Gunstad, J. (2018, May). *Improved computerized cognitive testing after suspected concussion*. Poster presented at the Annual meeting of the Sports Neuropsychology Society in Washington, D.C.

**Manderino, L.M.** & Gunstad, J. (2018, February). *Self-reported constancy in sports is correlated with previous concussions resulting in loss of consciousness*. Poster presented at the Annual Meeting of the International Neuropsychological Society in Washington, D. C.

**Manderino, L.M.,** Anderson, J.R., & Gunstad, J. (2017, May). *Earlier age of first exposure and position predict lower neurocognitive scores in collegiate football players*. Poster presented at the Annual Meeting of the Sports Neuropsychology Society in Cleveland, OH.

**Manderino, L.M.** & Gunstad, J. (2017, April). *Performance of Immediate Post-Concussion Assessment and Cognitive Testing baseline protocol validity indices*. Poster presented at the Annual Neuroscience Research Symposium at Kent State University in Kent, OH.

Zachman, A., **Manderino, L. M.,** & Gunstad, J. (2017, April). *Novel ImPACT validity indices identify sandbagging regardless of ADHD status*. Poster presented at the Annual Neuroscience Research Symposium at Kent State University in Kent, OH.

**Manderino, L.M.** & Gunstad, J. (2017, February). *Immediate Post-Concussion Assessment and Cognitive Testing validity indices are correlated with external performance validity measures*. Poster presented at the Annual Meeting of the International Neuropsychological Society in New Orleans, LA.

**Manderino, L.M.** & Gunstad, J. (2016, April). *Athletes with history of academic difficulties produce more invalid profiles on baseline ImPACT testing*. Poster presented at the Annual Neuroscience Research Symposium at Kent State University in Kent, OH.

**Manderino, L.M.** & Gunstad, J. (2016, February). *Athletes with ADHD or history of academic difficulties show intact performance on baseline ImPACT testing*. Poster presented at the Annual Meeting of the International Neuropsychological Society in Boston, MA.

**Manderino, L.M.** & Gunstad, J. (2015, April). *Invalid ImPACT baseline in National Collegiate Athletic Association Division I football players with ADHD*. Poster presented at the Annual Neuroscience Research Symposium at Kent State University in Kent, OH.

**Manderino, L.M.,** Spitznagel, M.B., Strain, G., Devlin, M., Cohen, R., Crosby, R.D., Mitchell, J.E., & Gunstad, J. (2015, February). *Traditional Cognitive deficiencies predict impaired performance on an emotion recognition task in bariatric surgery candidates*. Poster presented at the Annual Meeting of the International Neuropsychological Society in Denver, CO.

Washington, J.R., **Manderino, L.M.,** Hegde, M.S., & Blumenthal, T.D. (2014, September). *Inhibitory control processes and startle reactivity*. Poster presented at the Annual Meeting of the Society of Psychophysiological Research in Atlanta, GA.

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## RESEARCH SUPPORT

### Funded

Title: Concussion History as a Modifier of the Effect of Stress on Cognitive Function (January 2018 – May 2019)

Granting Agency/Organization: University Research Council at Kent State University

Status: Funded (\$2250)

Purpose: This study will examine how hypoxic stress impacts cognitive functioning in individuals with a recent history of fully healed mild traumatic brain injury (mTBI), and whether any chronic mTBI-related deficits become clinically meaningful and observable under hypoxic conditions.

Role: Co-Investigator

Title: Improving the Validity of Computerized Testing for Sport-Related Concussions (January 2016 – December 2016)

Granting Agency/Organization: Judie Fall Lasser Award from the Kent State University Applied Psychology Center

Status: Funded (\$750)

Purpose: This study examined and proposed improvements for the classification accuracy of poor effort on a widely-used computerized assessment for sport-related concussion.

Role: Co-Investigator

## Not Funded

Title: History of Mild Traumatic Brain Injury and Cognitive Function in States of Physical and Emotional Arousal

Granting Agency/Organization: Dr. Vivek Pillai Memorial Research Award - Kent State University Applied Psychology Center

Purpose: This study seeks to investigate the relationship between concussion history and adverse psychosocial outcomes by proposing chronically altered cognitive function and affective regulation under stress as moderators.

Role: Co-Investigator

Title: Examining the Validity Indices of Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT) in Sports-Related Concussions

Granting Agency/Organization: American Psychological Association

Purpose: This study would provide evidence for the identification of poor effort by a computerized assessment for sport-related concussion.

Role: Co-Investigator

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## HONORS AND AWARDS

2018	Most Outstanding Presentation Award, Graduate Student Senate, Kent State University Award: \$100
2018	Research Fellowship, Department of Psychological Sciences, Kent State University Award: Funding and tuition waiver awarded to select students annually in recognition of past accomplishments and high research potential
2017	Graduate Student Paper Award, Applied Psychology Center, Kent State University Award: \$100
2017, 2018	Domestic Travel Grant Award, Graduate Student Senate, Kent State University. Award per year: \$500.
2015, 2016	Domestic Travel Grant Award, Graduate Student Senate, Kent State University. Award per year: \$350.
2015, 2016, 2017, 2018	Student Travel Award, Department of Psychology, Kent State University. Award per year: \$500.

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## CLINICAL EXPERIENCES

August 2020 – Present

**Fellow: Neuropsychology**

*Sports Concussion Program*

*Department of Orthopaedic Surgery*

*University of Pittsburgh Medical Center (UPMC)*

**Duties:** Conduct computerized neuropsychological assessment, vestibular/oculomotor screening, and clinical interventions with patients at initial and follow-up visits. Determine appropriate diagnosis and treatment referrals for patients with sports- and non-sports related

concussion or mild traumatic brain injury. Perform expanded neuropsychological evaluation for National Hockey League return to-play-evaluations and medico-legal assessments. Provide brief, targeted interventions for patients with mental health symptoms secondary to concussion. Work with interdisciplinary team, including vestibular and exertional therapy, psychiatry, neuro-optometry, and physical medicine & rehabilitation to manage care of patients.

Supervisors: Michael "Micky" Collins, Ph.D., Nathan Kegel, Ph.D., Jonathan French, Psy.D., Vanessa Fazio-Sumrok, Ph.D., Alicia Trbovich, Ph.D., Natalie Sandel Sherry, Psy.D.

January 2020 – July 2020

**Psychology Intern: Neuropsychology**

*Community Living Center  
VA Ann Arbor Healthcare System*

Duties: Conduct brief psychological and cognitive screenings for older adult veterans admitted to a post-acute rehabilitation center to inform treatment planning. Perform expanded neuropsychological evaluation when indicated and for more detailed treatment and discharge planning. Maintain a caseload of 4 to 6 veterans for behavioral health interventions, including facilitating adjustment to disability and enhancing rehabilitation engagement. Work with interdisciplinary team to manage care of all veterans. Provide feedback on neuropsychological findings to veterans, family members, and providers.

Supervisors: Julija Stelmokas, Psy.D.

January 2020 – July 2020

**Psychology Intern: Behavioral Health**

*Chronic Pain Clinic  
VA Ann Arbor Healthcare System*

Duties: Conduct behavioral health interventions with veterans engaged with the Chronic Pain Clinic. Interventions included CBT-CP, ACT for Chronic Pain, and smoking cessation. Worked with veterans to develop coping plans for chronic pain and to better manage life stress as it interacts with chronic pain.

Supervisors: W. Brent Coy, Ph.D.

July 2019 – January 2020

**Psychology Intern: Neuropsychology**

*TBI Clinic  
VA Ann Arbor Healthcare System*

Duties: Conducted brief, real time cognitive screenings with adult and older adult veterans who screened positive for a past traumatic brain injury. In addition to typical responsibilities of neuropsychological evaluation, responsible for identifying patients for whom a cognitive screening or expanded cognitive battery may be of benefit, as well as communicating findings to the interdisciplinary team. Conduct brief, same-day feedback with patients and other team members to facilitate understanding of results and recommendations.

Supervisors: Robert Spencer, Ph.D., Julija Stelmokas, Psy.D., Michael Ransom, Ph.D.

July 2019 – January 2020

**Psychology Intern: Neuropsychology**

*Outpatient Neuropsychology  
VA Ann Arbor Healthcare System*

Duties: Conducted comprehensive neuropsychological evaluations with adult and older adult veterans referred from a variety of services, including primary care, mental health, and neurology. Responsible for review of records and history, client interview, test

administration and scoring, working with supervisor on test interpretation and case conceptualization, and report completion. Conduct brief, same-day feedback sessions with clients to facilitate understanding of results and recommendations. Coordinate with referring providers to facilitate treatment recommendations and continuity of care.

Supervisors: Robert Spencer, Ph.D., Julija Stelmokas, Psy.D., Michael Ransom, Ph.D., Benjamin Hampstead, Ph.D.

July 2018 – July 2019

**Psychology Assistant: Forensic Assessment**

*Psychodiagnostic Clinic*

*Summit County Court of Common Pleas, Akron, OH*

Duties: Administered comprehensive, flexible psychological test batteries to adult clients for the purposes of court-ordered evaluations. Responsible for review of records and history, client interview, test administration and scoring, working with supervisor on test interpretation and case conceptualization, and report completion.

Supervisors: Arcangela Wood, Ph.D., Lynn Luna Jones, Psy.D.

July 2017 – June 2018

**Psychology Practicum Student: Community Mental Health**

*Adult Behavioral Health*

*Coleman Professional Services, Ravenna, OH*

Duties: Provided psychotherapy on an outpatient basis to underserved populations, including individuals with severe mental health disorders and with physical and cognitive disabilities, as well as individuals post-hospitalization or post-incarceration. Completed structured intake evaluations and referred individuals for appropriate services, including psychotherapy, psychiatry, case management, and vocational services.

Supervisor: Frank Gorbett, Ph.D.

August 2016 – May 2017

**Neuropsychology Trainee**

*Kent State University Psychological Clinic*

*Kent State University, Kent, OH*

Duties: Administered comprehensive neuropsychological test batteries to adult clients seeking evaluations for Attention Deficit/Hyperactivity Disorder, Learning Disorder, psychiatric, and neurological disorders. Responsible for review of records and history, client interview, test administration and scoring, working with supervisor on test interpretation and case conceptualization, and report completion. Conducted feedback sessions with clients to facilitate understanding of results and recommendations.

Supervisors: Mary Beth Spitznagel, Ph.D., John Gunstad, Ph.D.

September 2015 – August 2017

**Psychotherapy Trainee**

*Kent State University Psychological Clinic*

*Kent State University, Kent, OH*

Duties: Completed structured intake evaluations that included a psychosocial interview and a structured diagnostic interview. Administered psychodiagnostic and cognitive assessment instruments and wrote comprehensive psychological reports. Conducted individual, outpatient psychotherapy with the adult student and community populations.

Supervisors: Angela Miller, Ph.D., Alanna Updegraff, Ph.D., T. John Akamatsu, Ph.D., Angela Neal-Barnett, Ph.D.

May 2015 – June 2019

**Student Director of BOOST (Brain Operations and Outcomes in Sports Training)**

*Department of Athletics  
Kent State University, Kent, OH*

Duties: Assisted in the development of the BOOST Program, which seeks to improve athletic health and performance through psychological and neuropsychological evaluation and intervention. Assisted in conducting comprehensive pre-season psychological evaluations on greater than 200 collegiate student athletes, including administration of the MMPI-2-RF and risk assessments as appropriate. Offered education, assessment, and intervention to student-athletes in such areas as academic or attentional disabilities, mental health difficulties, creating and maintaining healthful lifestyles, and concussion management.

Supervisor: John Gunstad, Ph.D.

April 2015 – January 2018

**Neuropsychology Trainee**

*Geropsychiatric Inpatient Unit, Summa Health System  
St. Thomas Hospital, Akron, OH*

Duties: Conducted inpatient neuropsychological consultations with an older adult psychiatric population. Responsible for medical chart review, patient interview, test administration and scoring, and working with supervisor on test interpretation, case conceptualization, and generation of a brief report. Referral questions addressed are typically discharge-focused including disposition (e.g., safety in independent functioning), need for guardianship, and differential diagnosis (e.g., delirium or depression versus a degenerative condition).

Supervisors: Mary Beth Spitznagel, Ph.D., John Gunstad, Ph.D.

February 2015 – June 2018

**Immediate Post-Concussion Assessment and Cognitive Testing Coordinator**

*Department of Athletics  
Kent State University, Kent, OH*

Duties: Coordinated preseason baseline Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT) testing for National Collegiate Athletic Association Division I sports teams. Administered ImPACT to approximately 150 student-athletes each year. Constructed and managed database of all preseason and post-injury assessments for all student-athletes from 2011 to 2018.

Supervisor: John Gunstad, Ph.D.

December 2014 – May 2017

**Neuropsychology Trainee**

*Center for Senior Health, Summa Health System  
Akron City Hospital, Akron, OH*

Duties: Conducted outpatient neuropsychological evaluations on older adults with psychiatric, neurological, and neurodegenerative disorders. Performed electronic medical record review, participation in patient interview and collateral source interview, test administration and scoring, work with supervisor on test interpretation, case conceptualization and differential diagnosis, and report completion, including the writing of tailored recommendations for the specific needs of the patient and their family. Types of cases encountered included Alzheimer's disease, Vascular Dementia, Mixed Dementia, Mild Cognitive Impairment, Vascular Cognitive Impairment, Frontotemporal dementia, brain injury, aphasia, among others.

Supervisor: Mary Beth Spitznagel, Ph.D.

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**RESEARCH EXPERIENCE**



August 2020 – Present

**Post-Doctoral Fellow**

*Department of Orthopaedic Surgery  
UPMC Sports Concussion Program, Pittsburgh, PA*

1. Study Title: Concussion & Older Adults.  
Role: Research Assistant.  
Study Aims: To evaluate a clinical test battery consisting of cognitive screening, vestibular/oculomotor screening, and symptom questionnaires to identify older adults with mTBI from controls.  
Supervisor: Natalie Sandel Sherry, Psy.D.
2. Study Title: Concussion & Older Adults: Role of Risk Factors, Assessment, and Treatment.  
Role: Co-Investigator.  
Study Aims: To develop evidence regarding the risk factors, assessment, management, and treatment for concussion in older adults.  
Supervisor: Anthony Kontos, Ph.D.

July 2019 – July 2020

**Intern Research Minor**

*Neuropsychology Service  
VA Ann Arbor Healthcare System, Ann Arbor, MI*

1. Study Title: Structured Review of Self-Report Inventories for Post-Concussion Symptoms.  
Role: Co-investigator.  
Study Aims: To provide an accessible and useful reference of appropriate tools for assessing post-concussion syndrome symptoms.  
Supervisor: Robert Spencer, Ph.D.
2. Study Title: Engagement in Rehabilitation Services and Clinical Outcomes in a Post-Acute Residential Rehabilitation Setting.  
Role: Co-investigator.  
Study Aims: To examine the relationship between engagement in physical therapy and other rehabilitation services and clinical outcomes, such as prolonged disability and extended stay.  
Supervisor: Julija Stelmokas, Psy.D.

July 2018 – June 2019

**Extern Research Assistant**

*Psychodiagnostic Clinic  
Summit County Court of Common Pleas, Akron, OH*

1. Study Title: Factors Associated with Insanity Findings in Murder and Attempted Murder.  
Role: Co-investigator.  
Study Aims: To empirically investigate factors that have been theoretically proposed as important to sanity determination in murder and attempted murder cases.  
Supervisor: Lynn Luna Jones, Psy.D.

July 2014 – July 2019

**Graduate Research Assistant**

*Clinical Neuropsychology Research Laboratory  
Kent State University, Kent, OH*

1. Study Title: Concussion History as a Modifier of the Effect of Stress on Cognitive Function.

- Role: Co-investigator (Dissertation Project).  
Study Aims: To provide a preliminary investigation of the effects of apparently-resolved concussion on cognitive functioning in the context of an environmental stressor.  
Supervisor: John Gunstad, Ph.D.
2. Study Title: Speech Analysis to Detect Memory Loss  
Role: Research assistant.  
Study Aims: To examine the feasibility of using speech analysis to aid in the identification of persons at risk for Alzheimer’s disease and other forms of dementia.  
Supervisor: John Gunstad, Ph.D.
  3. Study Title: Improving Cognitive Function in Middle Age and Older Adults  
Role: Study coordinator.  
Study Aims: To determine the effects of 90 days of probiotic administration on cognitive function, mood, microbiome composition, glycemic control, and measures of stress/inflammation.  
Supervisor: John Gunstad, Ph.D.
  4. Study Title: Novel ImPACT Validity Indices in NCAA Division I Athletes with ADHD and Academic Difficulties  
Role: Co-investigator.  
Study Aims: To examine whether previously suggested “dormant” validity indices in the ImPACT produce equal rates of invalid protocols in individuals with and without histories of ADHD or academic difficulties.  
Supervisor: John Gunstad, Ph.D.
  5. Study Title: Exercise and Cognition in Persons with Multiple Sclerosis  
Role: Research assistant.  
Study Aims: To examine the impact of a one week water aerobic exercise intervention on cognitive functioning in individuals with multiple sclerosis.  
Supervisor: John Gunstad, Ph.D.
  6. Study Title: Sleep and Daily Function in College Students  
Role: Research assistant.  
Study Aims: To determine how sleep may impact cognitive function, mood, school performance, and activity in college students.  
Supervisor: John Gunstad, Ph.D.
  7. Study Title: Improving the Validity of Computerized Testing for Sport-Related Concussion  
Role: Co-investigator (Thesis Project).  
Study Aims: To examine classification accuracy of the embedded protocol validity/effort indices of a widely-used computerized test for the assessment of sport-related concussion. To compare the performances of these indices to gold standard external measures of effort and use this comparison to suggest improvements to the existing validity indices.
  8. Study Title: Gut Microbiota and Cognitive Function  
Role: Study coordinator.  
Study Aims: To better understand the possible connection between stomach health and mental abilities like memory and concentration.  
Supervisor: John Gunstad, Ph.D.

9. Study Title: Cognition and Glycemic Response in Children  
Role: Research assistant.  
Study Aims: To better understand how cognitive function is affected by glycemic response when a child drinks beverages with different glycemic load , including milk and juice.  
Supervisor: Mary Beth Spitznagel, Ph.D.
  
10. Study Title: Performance of ImPACT Invalid Assessment Indices in NCAA Division I Athletes with ADHD  
Role: Co-investigator.  
Study Aims: To compare the prevalence of invalid baseline assessments and suppressed composite scores in student-athletes with and without ADHD diagnoses, as well as other academic difficulties.  
Supervisor: John Gunstad, Ph.D.

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## TEACHING EXPERIENCE

January 2019 – May 2019

**Course Instructor**

*Forensic Psychology – Undergraduate Level  
Kent State University, Kent, OH*

Experiences: Instructor for upper level undergraduate course in Forensic Psychology. Topics covered included the history of forensic psychology, forensic psychology as a subspecialty within clinical psychology, work settings for forensic psychologists, and various assessment types conducted by forensic psychologists.

June 2018 – July 2018

**Online Course Instructor**

*Industrial/Organizational Psychology – Undergraduate Level  
Kent State University, Kent, OH*

Experiences: Instructor for web-based, undergraduate level, five week long course in Industrial/Organizational Psychology. Recorded online lectures, graded assignments, corresponded electronically with students, and met with students in person to discuss questions and concerns regarding coursework.

January 2016 – May 2017

**Graduate Teaching Assistant**

*Advanced Assessment – Graduate Level  
Kent State University, Kent, OH*

Experiences: Teaching assistant for graduate level course in advanced assessment. Prepared lectures and assisted in grading coursework. Topics responsible for instructing students included: introduction to clinical procedures, clinical report writing, WAIS-IV administration, scoring, and interpretation.

Supervisors: John Gunstad, Ph.D.  
Yossef Ben-Porath, Ph.D.  
Anthony Tarescavage, Ph.D.

September 2015 – May 2016

**Graduate Teaching Assistant**

*Health Psychology  
Kent State University, Kent, OH*

Experiences: Teaching assistant for undergraduate level course in health psychology. Assisted in grading coursework. Served as instructor during section on death and dying.

## **SUPERVISION EXPERIENCE**

July 2018 – July 2019

### **Group Supervision Co-Facilitator**

Experiences: Responsible for co-supervision (with one other advanced graduate student) of a small group of graduate students completing a practicum in community mental health. Duties included providing guidance regarding treatment for underserved patient populations, instruction for electronic medical record system, encouragement to engage in self-care, and support for students as they navigate their first external practicum experience.

September 2016 – July 2019

### **Undergraduate Research Co-Mentor**

Experiences: Co-mentor of an undergraduate's research project. Duties included assistance with conducting statistical analyses, and the interpretation and writing of results. Assisted in preparation and instruction of undergraduate research projects that resulted in abstract submission to both local and international conferences.

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## **PROFESSIONAL ACTIVITIES**

August 2017 – August 2019

### **Student Representative for the Women in Neuropsychology (WIN) Subcommittee** *Public Interest and Advisory Committee* *Society for Clinical Neuropsychology*

Duties: Participated in planning of events sponsored by the Women in Neuropsychology Subcommittee held at the annual meetings of the American Psychological Association and the International Neuropsychological Society that focused broadly on promoting diversity and equality within the field of neuropsychology with special focus on mentoring women at the trainee and early career stages. Coordinated monthly Mentoring Moment program hosted on the WIN listerv, which solicits and disseminates advice from established neuropsychologists in a formal and accessible medium for trainees and early career neuropsychologists. Participated in monthly conference calls for the planning and coordination of these activities.

May 2017, 2018

### **Student Volunteer for the Sports Neuropsychology Society Annual Meeting**

Duties: Assisted program chair and planning committee with the execution of administrative and support tasks for the annual meetings of the Sports Neuropsychology Society, including tracking continuing education credits, registering conference attendees, facilitating panel discussions with audio equipment coordination, and creating name badges.

January 2017 – September 2018

### **Chapter Representative for Association of Neuropsychology Students & Trainees (ANST) Interest Group**

Duties: Served as the liaison between the Kent State University Interest Group and the Association of Neuropsychology Students and Trainees. Conveyed information from ANST to Interest Group members regarding opportunities for professional development and recent news and discoveries in the field.

January 2017 – May 2017

### **Student Representative for Departmental Job Search Committee**

Duties: Attended meetings of the Job Search Committee and Department of Psychological Sciences faculty members to summarize graduate student opinions of candidates for a hiring initiative of three tenure track faculty positions in the Department of Psychological Sciences. Moderated graduate student interviews of candidates.

Collected and analyzed data from graduate students regarding their opinions of candidates.

December 2016 - Present

**Research Editing and Consulting Program Consultant**

*International Neuropsychological Society  
International Liaison Committee*

Duties: Performed English language editing for manuscripts in preparation. Exchanged drafts with international authors.

September 2015 – June 2019

**Executive Board of the Multicultural and Diversity Committee**

Positions Held: Chair, Vice-Chair, Chair of Public Relations

Duties: Spearheaded projects focused on promoting diversity and combatting bias in our department as well as the field of Psychology, including a “Diversity Resource Bank” and “Diversity Map.” Coordinated fundraising and social events for the Multicultural and Diversity Committee. Sought sponsorship from businesses and organizations. Disseminated information to the department about association activities, fundraising projects, and multicultural community events.

September 2015 – June 2019

**Undergraduate Mentor for the Multicultural and Diversity Committee**

Duties: Provided guidance and support for individuals from underrepresented groups, including racial and ethnic minorities, LGBTQ+ individuals, students with disabilities, and first-generation college students, who were interested in pursuing graduate-level education in psychology. Met with mentees individually approximately once per month to discuss career exploration, taking the GRE, and preparing graduate school applications, among other topics.

January 2015 – September 2016

**Founder/Director of Neuropsychology Journal Club for Undergraduate Students**

Duties: Led, organized, and participated in a student journal club to build skills in reading, analyzing, and discussing primary literature in the field of neuropsychology. Identified and assigned relevant, primary literature that would both capture the interest and suit the ability levels of undergraduate students. Assisted motivated undergraduate students in their presentations of research articles to their peers.

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**STATISTICAL EXPERIENCE**

*Completed Graduate Courses in Statistics*

Quantitative Methods in Psychology I  
Quantitative Methods in Psychology II  
Hierarchical Linear Modeling  
Structural Equation Modeling

*Statistical Workshops*

Workshop given by Gregory R. Hancock, Ph.D. entitled, “Advanced Topics in Structural Equation Modeling.”  
Workshop given by Xinyue Ye, Ph.D. entitled, “Introductory R Workshop.”  
Workshop given by Todd Little, Ph.D. entitled, “Structural Equation Modeling Workshop.”

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**SPECIALIZED CLINICAL TRAINING**

March 2020

**Motivational Interviewing (MI) Training**

Attended a two-day, interactive training in the fundamentals of Motivational Interviewing (MI) given by Erin Bonar, Ph.D. Topics covered included embracing the fundamental elements and terminology of MI, as well as understanding how MI can be integrated into clinical practice to improve treatment engagement and efficiency of

communication. The workshop incorporated practical component, providing many opportunities to practice engaging, focusing, evoking, and planning skills.

October 2018

**Introduction to Acceptance and Commitment Therapy (ACT) Workshop**

Attended a two-day introductory workshop in Acceptance and Commitment Therapy given by Michael Twohig, Ph.D. Day one of the workshop focused on theory and understanding of the psychological processes targeted in ACT. Day two of the workshop involved applying ACT principals in a therapeutic context and practicing ACT exercises.

July 2016

**Dialectical Behavior Therapy (DBT) Training Workshop**

Attended a two-day introductory course in Dialectical Behavior Therapy given by Denise Ben-Porath, Ph.D. Course objectives focused on working with individuals diagnosed with borderline personality disorder in both individual and group contexts. Specific topics covered included conceptualizing the hierarchy of DBT treatment targets, teaching skills modules, structuring a DBT group, and keeping clients engaged in treatment.

February 2016

**Unified Protocol Training Workshop from the Unified Protocol Institute**

Attended a full day introductory course in using the Unified Protocol for transdiagnostic treatment of emotional disorders at the Unified Protocol Institute in Boston, MA.

June 2015

**Level A Certification from Interpersonal Psychotherapy Institute**

Attended a two-day introductory course in Interpersonal Psychotherapy given by Scott Stuart, M.D. Course combined lecture and practical experience in Interpersonal Psychotherapy techniques.

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**PROFESSIONAL SOCIETY MEMBERSHIPS/ACTIVITIES**

2017 – Present

Student Member of the Sports Neuropsychology Society

2017 – Present

Student Member of the Society for Clinical Neuropsychology, APA Division 40

2016 – 2020

Member of Division 40 Association of Neuropsychology Students and Trainees

2015 – 2017

Student Member of the American Psychological Association

Ad Hoc Reviewer – Mentored Reviews

*International Journal of Obesity*

*Journal of the International Neuropsychological Society*

*Concussion*

*Perceptual and Motor Skills*

*Journal of Clinical and Experimental Neuropsychology*

*American Journal of Sports Medicine*

*BMC Public Health*

*Frontiers in Neurology*

*Journal of Pediatrics*

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**REFERENCES**

Michael “Micky” Collins, Ph.D.

Clinical and Executive Director, UPMC Sports Medicine Concussion Program  
Professor, University of Pittsburgh, Dept. of Orthopaedic Surgery  
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