

## Ali Boolani, PhD, CSCS

### I. PERSONAL

Name: Ali Boolani

Phone: 504-319-5828

Email: [ali.boolani@gmail.com](mailto:ali.boolani@gmail.com)

Current Rank: Head of Mental Performance Program Gatorade Sports Science Institute

Current Academic Rank: Research Associate Professor

Languages: Fluent English, Urdu, Sindhi, Hindi; Conversational Spanish; Basic competency French, Swahili, Arabic, Gujrati

Programming languages: Python, R, Java, C++, C#, SQL, Ruby, Rhinoscript, Cuda, JavaScript, Django, Bash, Tableau, PowerBI

Lab based skills: sEMG, IMU, EEG, fNIRS, PPG, ePPG, EDA/GSR, force plates, NeuroCom Balance Master, eye-tracking, marker-less motion capture, VO2Max, Isokinetic muscle testing

Cloud competencies: Microsoft Bonsai, Microsoft Azure, Google Cloud, Amazon Web Services (AWS)

Computational skills: Computer vision, deep learning, machine learning, signal processing, natural language processing

[Google Scholar](#) [ResearchGate](#) [LinkedIn](#)

### II. INTERESTS

Multi-disciplinary scientist aiming to create human digital twins using network physiology and human reinforcement learning to modify feelings of energy/fatigue by prescribing individualized interventions.

- A. Research Interests: To create a Human Digital Twin to prescribe individualized energy and fatigue associated interventions, I attempt to: 1) identify changes in subjective and objective measures of energy and fatigue and associated factors (i.e. pain, anxiety, depression, sleep) using a combination of eye-tracking, virtual reality (VR), voice, sensors, and computer vision; 2) identify interventions that modify feelings of energy/fatigue; 3) identify inter- and intra-individual differences in intervention response; 4) understand the unique and overlapping biological correlates of energy and fatigue and the interaction of these biological factors
- B. Teaching Interests: To mentor/teach students to be independent thinkers who can use multi-disciplinary approaches to problem solve. In the past I have taught research methods, physiology, kinesiology, storytelling through data, and project-based learning.
- C. Service Interests: To serve minority communities through scholarship, use entrepreneurial spirit to start and sustain service programs, and mentor students, staff, and faculty. Currently serve as the President-elect of Greater New York American College of Sports Medicine.

### III. EDUCATION

<b>University of Georgia</b>	Post-doctoral fellowship Cognitive Psychology	2012-2013
<b>Oklahoma State University</b>	Ph.D. in Health and Human Performance- Applied Physiology	2006-2009
	Dissertation: <a href="#"><i>Assessing bench press strength after training without the benefit of vision</i></a>	
<b>Johns Hopkins University</b>	M.S. Artificial Intelligence- Theoretical Approach	2020- anticipated 2025
<b>University of New Orleans</b>	M.Ed. in Health and Human Performance- Applied Physiology	2004-2006
	<i>Unable to complete thesis due to Hurricane Katrina</i>	
<b>Tulane University</b>	M.A. in International Relations- International Political Economics	2002-2003
	Thesis: <i>Realism, rationalism, idealism, and the influence of Religion in Russian economic relations with India and Pakistan</i>	
<b>Tulane University</b>	B.A. in International Relations- International Political Economics	1999- 2002
	Thesis: <i>Can capitalist democracies exist in Islamic Nations?</i>	
<b>Clarkson University</b>	The Clarkson School	1998-1999

### IV. Professional Experience

February, 2024

### A. Non-academic Experience

#### **Gatorade Sports Science Institute**

*Head of the Mental Performance Program- (2022- present)*

#### **Psych Tech Solutions**

*Founder and Chief Technology Officer (2014-2020)- Your Health ABC dba Psych Tech Solutions*

#### **BSAB LLC**

*Founder and Chief Executive Officer- 2014-2020*

#### **Focus Performance LLC**

*Chief Executive Officer (2006-2009)*

#### **Southern Nazarene University**

*Head Strength and conditioning coach- 2007-2009*

#### **Vinni Viddi Vicci Fitness, LLC**

*Chief Executive Officer (2002- 2005)*

#### **St. George's Episcopal School**

*Assistant Coach- 2001-2002, Head Coach 2002-2003*

#### **New Orleans Emergency Services**

*Emergency Medical Technician- Basic 2001-2002*

#### **United States Marine Corps**

*Lance Corporal- 2000-2001*

#### **YMCA Computer and Kids**

*Director and Founder (1999-2001)*

#### **Lee Circle YMCA**

*Fitness Director (2001-2001)*

### B. Academic Experience

#### **Clarkson University**

*Assistant Professor (2014-2019), Tenured Associate Professor (2019-2022), Research Associate Professor (2022- Present)*

#### **George Mason University**

*Graduate Research Professor (2020-present)*

#### **University of Georgia**

*Post-doctoral fellow (2012 – 2013)*

#### **Oklahoma City University**

*Assistant Professor- non-tenure track (2011-2012)*

#### **Tennessee State University**

*Assistant Professor- Tenure track (2010 – 2011)*

## V. Grants and Contracts

### A. Research Support- Active Grants and Contracts

1. BiOengineering Research Education to AcceLerate Innovation in STEM  
**National Institute of Health- R25- R25EB033080**  
Role: Funded as Co-I- now acting as consultant

February, 2024

PI- L. Kuxhaus  
 Amount funded- \$660, 475  
 Funded from 2023-2027  
 Impact Score- 18

2. Can concurrent vestibular headshake activity and weight shift training using virtual reality paradigm significantly improve vestibulo-ocular reflex gain, sensory reweighting, and postural balance.  
**Restore Center Pilot Research Grant-** part of NIH grant awarded to Stanford University  
Role: Funded as Co-PI, now acting as consultant  
 PI: K. Appiah-Kubi  
 \$30,000
3. Tai Chi as a Novel Strategy to Increase Physical Activity and Function among Adults Seeking Metabolic Bariatric Surgery  
**Hartford Health System**  
Role: Consultant  
 PI- Y. Wu, co-PI- D. Bond, P. Papasavas, S. Bourassa  
 Amount funded- \$12,739.30  
 January 2023

B. Pending funding

C. Externally Funded Grants Completed

1. Can sitting upright reduce feelings of fatigue and depression in students who report feeling depressed.  
**Neurotrack Technologies Inc.**  
Role: co-PI/faculty mentor  
 PI- N. Barrios  
 Product grant and Engineering Support (for AI expertise)  
 March 2021- June 2022
2. Identifying factors associated with long-haul COVID related fatigue.  
**Trinity Health Systems**  
Role: Consultant  
 PI: C. Yager  
 Data and personnel support  
 July 2021- June 2022
3. Identifying individuals with Mild Cognitive Impairments using eye-tracking technologies  
**Neurotrack Technologies, Inc**  
 Amount requested- \$100,000  
Role: Consultant  
 PI: M. Smith  
 December 2021- had to leave project due to moving to industry
4. Integrated Mathematics and Physics for Entry to Undergraduate STEM (Science, Technology, Engineering, Mathematics)  
**New York State STEP Program**  
Role: Director of Research STEM Outreach Program  
 PI- K. Kavanagh, Co-PI- M. Ramsdell,  
 \$2,109,564  
 Renewed June 2020- left at Clarkson University
5. Identifying the association between microaggressions and subjective and objective indices of energy and fatigue  
**Neurotrack Technologies Inc.**  
Role: PI  
 Co-PIs- J. Martin, L. Yu  
 Product grant and Engineering Support (using eye-tracking to identify objective energy and fatigue)  
 September 2020- May 2022

6. Unique and overlapping gut microbiome correlates of trait mental and physical energy and fatigue.  
**American Public University Foundation grant mechanism**  
Role: Co-PI  
 PI- L. Byerley., Co-PI- K. Gallivan, K. Ondorak,  
 \$15,000/year for 2 years  
 Accepted January 5, 2022  
 January 2022-December 2023- had to leave project due to accepting industry position
7. Creating Artificial Intelligence to Identify Feelings of Mental Energy and Mental Fatigue  
**Medical Technology Enterprise Consortium- Department of Defense**  
Role: PI  
 Co-PIs: L. Yu, P. O'Connor  
 Amount requested- \$1,658,802  
 June 2021  
*Scored a Good (fundable) and has been placed in Basket (potential for funding over next 2 years)-* Transferred to George Mason University due to leaving academia for industry.
8. Identifying unique and overlapping biomarkers of indices of energy and fatigue  
**Air Force Office of Scientific Research (AFSOR) FA9550-21-S-0001**  
Role: PI  
 Co-PI- P. O'Connor  
 August, 2021  
*Scored as Good (fundable) and has been placed in Basket (no current funding available for this project, potential for funding over next 2 years). Will request funding needs if funding available for project-* Transferred to University of Georgia due to leaving academia for industry.
9. Influence of auditory cues on gait and moods during 30-minutes of self-selected walking  
**USAID Higher Education Initiative- Graduate Scholarships for Professionals (GSP)**  
Role: PI (faculty mentor)  
 Post-doctoral fellow- Ahmed Torad  
 Salary support for post-doctoral fellow + direct costs \$27,000  
 October 2021- May 2022  
 ClinicalTrials.gov Identifier NCT05048576, Protocol Record 20-20.2
10. Predicting changes in subjective and objective indices of energy and fatigue using Virtual Reality (VR)  
**USAID Higher Education Initiative- Graduate Scholarships for Professionals (GSP)**  
Role: PI (faculty mentor)  
 Post-doctoral fellow: Ahmed Kadry  
 Salary support for post-doctoral fellow + direct costs \$27,000  
 October 2021- May, 2022
11. Can sitting upright reduce feelings of fatigue and depression in students who report feeling depressed.  
**USAID Higher Education Initiative- Graduate Scholarships for Professionals (GSP)**  
Role: PI (faculty mentor)  
 Post-doctoral fellow: Mostafa Ali Elwan  
 Salary support for post-doctoral fellow + direct costs \$27,000  
 October 2021- March, 2022
12. Adaptogen and natural caffeine induced gene fingerprint in immune cells in healthy control and fatigued volunteers.  
**The Isagenix Corporation**  
Role: PI  
 Co-PI- F. D'Aquisto, N. Bellissimo  
 \$150,000  
 December 2019- accepted but not funded due to COVID-19
13. Cocoa-induced gene fingerprint in immune cells in healthy control and fatigued volunteers  
**The Hershey's Corporation**  
Role: PI  
 Co-PI- F. D'Aquisto, N. Bellissimo

\$150,000

December 2019- accepted but not funded due to COVID-19

14. The effects of cocoa on mood in negotiation settings

**The Hershey Company**

Role: PI

Co-PI: G. Marquez

\$7,125

January 2016-December 2017

15. The role of cocoa in attenuating the effects of physical and mental fatigue on gait, sway and fine motor skills in older adults

**The Hershey Company**

Role: PI

\$3,000

January 2016-December 2017

16. Effects of Isagenix e+shot energy beverage on mental energy

**Isagenix Corporation**

Role: PI

Co-PI: C. Darie

\$90,363

November 2014-May 2017

ClinicalTrials.gov Identifier NCT03850275, Study ID number 16-05

17. New product research on mental energy

**The Hershey Company**

Role: PI

November 2014-December 2017

18. New product research on mental energy

**The Hershey Company**

Role: PI

Co-PI: G. Marquez

November 2014-December 2017

19. Effects of brewed cacao on mental fatigue

**The Hershey Company**

Role: Consultant

PI: P. O'Connor

\$10,000

June 2013-May 2014

20. Effects of brewed cacao on mental fatigue and cognitive function

**The Hershey Company**

Role: Consultant

PI: P. O'Connor

\$101,900

January 2012-July 2013

ClinicalTrials.gov Identifier NCT01651793

21. New Product Research

**Dynavision**

Role: PI

January 2012- December 2012

22. New Product Research

**Iron Company**

Role: PI

January 2012- December 2012

23. New Product Research  
**Joint Mechanix**  
Role: PI  
 January 2011- May 2011
24. Effects of Power Assisted Isokinetic training on muscular strength, endurance and functional capacity in older adults.  
**ShapeMasters LLC.**  
Role: Pre-doctoral fellow  
 PI: B. Jacobson  
 \$210,000  
 July 2008-May 2009
25. Back Pain, Sleep Quality and Perceived Stress Following Introduction of New Bedding Systems.  
**Bob Mills, Inc.**  
Role: Pre-doctoral fellow  
 PI: B. Jacobson  
 \$175,000  
 May 2007- August 2008
26. Testing Lifewave Patches  
 Study 1: An investigation that consisted of several different investigations. The Effect of Energy Patches on Substrate Utilization in College Cross-Country Runners  
 Study 2: Effect of Pain Patch on neural conduction in the gastrocnemius and changes in visual analog scale (VAS) perception of lower back pain  
Role: Pre-doctoral fellow  
 PI: B. Jacobson  
 \$78,000  
 May 2007- December 2009

D. Internally Funded Grants

1. Can sitting upright reduce feelings of fatigue and depression in students who report feeling depressed  
**Clarkson University Ignite Grant**  
Role: co-PI/faculty mentor  
 PI- N. Barrios  
 \$5,000  
 January 2021- June 2022
2. Associations between changes in mitochondrial function, resting metabolic rate and VO2Max and changes in mood with two modes of exercise: A pilot study  
**Clarkson University Faculty Grant**  
Role: Co-PI  
 PI: C. Towler, Co-PI- P. LaCombe  
 \$5000  
 October 2019 (project paused due to COVID-19 restrictions)- Left at Institution
3. Predicting student-athlete burnout using physiological, psychological and salivary biomarkers  
**Clarkson University Internal Grant**  
Role: PI  
 Co-PI- Matthew Manierre  
 5 years of graduate student funding (approximately \$350,000)  
 August 2019 (Project paused due to COVID-19 restrictions)
4. Student Research Trainee Grant  
**Oklahoma City University Dean's Undergraduate Research Grant**  
Role: Faculty mentor  
 Trainee J. McArthur  
 \$150

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January 2012-May 2012

5. Student Research Sponsor Grant  
**Oklahoma City University KES Undergraduate Research Grant**  
Role: Faculty mentor  
 Trainee J. McArthur- Internal  
 \$30  
 January 2012-May 2012
  6. Student Research Trainee Grant  
**Oklahoma City University Dean's Undergraduate Research Grant**  
Role: Faculty mentor  
 Trainee W. Roszel  
 \$150  
 January 2012-May 2012
  7. Student Research Sponsor Grant  
**Oklahoma City University KES Undergraduate Research Grant**  
Role: Faculty mentor  
 Trainee W. Roszel  
 \$60  
 January 2012-May 2012
  8. Role of positive versus negative motivation in basketball jump shooting  
**Oklahoma City University Faculty Scholarship Committee**  
Role: PI  
 Amount requested-\$2102, amount funded \$1020.52  
 January 2012-May 2012
  9. Changes in perceived exertion with positive and negative reinforcement  
**Oklahoma City University Faculty Scholarship Committee**  
Role: PI  
 Amount requested- \$1239, amount funded- \$813- 2011- Internal  
 January 2012-May 2012
  10. Relationship between skeletal structure asymmetries and vertical jump  
**Oklahoma State University Graduate Association Travel Grant**  
Role: PI  
 \$245  
 May 2007
  11. Changes in body composition in collegiate wrestlers over the course of a season  
**Oklahoma State University Graduate Association Travel Grant**  
 \$235  
 May 2007
- E. Grants Not Funded
1. BiOEngineering Research Education to AcceLerate Innovation in STEM  
**National Institute of Health- R25**  
Role: Co-I  
 PI- L. Kuxhaus  
 Amount requested- \$882,957  
 June 2021  
 Impact Score- 38- resubmitted
  4. Detecting trait and state energy and fatigue through the creation of novel sensors  
**National Academy of Medicine- Catalyst Award**  
Role: PI

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Co-PI: M. Imtiaz, Consultant: P. O'Connor  
 Amount Requested- \$50,000  
 February 2022

5. The association between grit and health behaviors in young adults: A longitudinal cohort study  
**Libin Cardiovascular Institute of Alberta (LCIA)**  
Role: Post-doctoral co-supervisor  
 PI- M Karavetian, Supervisor- D Campbell  
 \$100,000 (Canadian)  
 May, 2021
6. Can concurrent vestibular headshake activity and weight shift training using virtual reality paradigm significantly improve vestibulo-ocular reflex gain, sensory reweighting, and postural balance  
**Foundation for Physical Therapy Research**  
Role: Co-PI  
 PI: K. Appiah-Kubi  
 \$10,000  
 May 2021
7. An examination of fluid milk with and without cocoa on objective and subjective indices of mental energy and mental fatigue in adults  
**National Dairy Council of Canada**  
Role: Co-PI  
 PI: N. Belissimo  
 \$178,197 (Canadian)  
 July 2021
8. Development of a Multimodal 3D Sensor (MM3S) for Monitoring the Physical and Psychological Health of Musicians in Performance Settings.  
**National Science Foundation Major Research Instrument program**  
Role: Co-PI  
 PI- T. Lipke-Perry, Co-PIs- N. Banerjee, S. Banerjee  
 \$251, 351  
 January 2019  
 Panel recommendation- Secondary consideration
9. Effects of dairy consumption on short-term inflammation, immunomodulation, and fatigue in middle-aged adults  
**National Dairy Council of Canada**  
Role: Co-PI  
 PI: N. Belissimo, Co-PI- F. D'Aquisto, M. Karavetian  
 \$312,788 (Canadian)  
 July 2020
10. Acquisition of a High-Speed Digital Image Correlation System  
**National Science Foundation Major Research Instrument (MRI) program**  
Role: Co-PI  
 PI: R. Thomas, Co-PIs: B. Behnia, P. Fernandez-Caban, G. Hunter, J. Scrimgeour, M. Martinez  
 \$529,521  
 January 2020  
 Panel recommendation- Secondary consideration
11. NGMH and CDED: Early detection of Dementia using machine learning  
**Clarkson University Ignite Grant**  
Role: Co-PI  
 PI: S. Dey, Senior Personnel: S. Banerjee, N. Banerjee, R. Martin  
 Five years of funding for graduate student requested  
 January 2020
12. Effect of high versus low glycemic response breakfast meals on glycemic response, amylin, insulin, amyloid-beta 40 and 42 concentrations on cognitive performance in adults with mild cognitive impairments

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**Alzheimer Society Research Program**Role: Co-PI

PI- Nick Bellissimo, Co-applicant- C. Yager

\$100,000 (Canadian)

November 2019

13. Associations between changes in mitochondrial function, resting metabolic rate and VO2Max and changes in mood with two modes of exercise: A pilot study

**Retirement Research Foundation**Role: Co-PI

PI- C.Towler, Co-PI P. LaCombe

\$248,841

November 2019

14. NSF Research Experience of Undergraduates (REU) program  
REU Site: Computational Understanding of Human Behavior using Multi-Modal Real and Online Data

**National Science Foundation**Role: Faculty mentor

PI- S. Banerjee, Co-PI- N. Banerjee

Five years of funding for graduate student requested

August 2019

15. Prediction of trait depression from gait, posture and facial features using machine learning techniques

**Clarkson University Ignite Grant**Role: Co-PI

PI: P. Athlwale, Co-PI- S. Sur, S. Mondal

Five years of funding for graduate student requested

December 2018

16. An exploratory study using artificial intelligence to differentiate trait and state mental and physical energy and fatigue as separate and overlapping constructs

**Clarkson University Faculty Grant**Role: PI

\$5,000

November 2018

17. Developing a smart watch application to act as an early warning detection system for fall risks

**Clarkson University Faculty Grant**Role: PI

Co-PI: N. Banerjee, S. Banerjee, G. Fulk, S. Mondal

Two years of funding for PhD student

December 2017

18. Determining the role of cognitive fatigue in fall risks in older adults

**Retirement Research Foundation**Role: PI

\$127,503

December, 2017

19. The Effect of Music on Verbal, Spatial, and Visual Memory in Older Adults

**The Grammy Foundation**Role: PI

\$20,000

September 2017

20. Role of mitochondrial capacity and VO2 in changes in feelings of stress, fatigue and vigor in older adults: A pilot study

**American Physical Therapy Association- Pulmonary section**Role: PI

Co-PI- C. Towler

\$5,000

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October 2016

21. Use of portable ultrasound to make automated real time accurate appraisals and pre-screening decisions in transthoracic screenings

**National Institute of Health (NIH) Small Business Innovation Research (SBIR)-National Institute of Biomedical Imaging and Bioengineering (NBIB)**

Role: Co-PI (5%)

PI- J. Monaco, Co-PI- V Morelli, P. Brannelly, J. Zett, K. Karim

Amount requested- \$252,835

Not discussed

22. PI- T.Baghurst-70%, co-PI- N.Betts-10%, K.Fink-10%, D.Hildebrand-5%, A.Bootani-5%  
Role of Physical Activity, Nutrition, and Sleep on Overweight and Obesity in Children and Young Adults  
Amount requested- \$205,000  
August 2015, **Oklahoma Center for the Advancement of Science & Technology**

23. Web-based multi-disciplinary model for healthcare providers/patient interaction: Chronic pain care.

**Pfizer Corporation**

Role: PI

Co-PI- J. Sattar, G. Fulk, L. Russek

\$750,000

March 2015

F. Grants Under Review

1. MRI: Track 1 Acquisition of a Bertec FIT5  
**National Science Foundation- Major Research Instrument (NSF-MRI)**  
Role: Co-PI  
PI: Kwadwo Appiah-Kubi  
Amount Requested- \$396,510  
Submitted November, 2023

G. White Papers Submitted

1. Development of novel sensors to detect changes in state mental and physical energy and fatigue  
**Defense Advanced Research Project Agency (DARPA)**  
Role: PI  
Co-PI- M. Imtiaz, S. Andreescu, A. Gruber  
Amount Requested- \$1,848, 052  
May, 2022- Left grant at Clarkson University due to moving to academia

H. Grants in preparation

## VI. Current Research projects

1. **Bootani, A** Influence of auditory cues on gait and moods during 30-minutes of self-selected walking (data collection in progress) (ClinicalTrials.gov Identifier NCT05048576, Protocol Record 20-20.2)
2. **Bootani, A., Yu, C., Appiah-Kubi, K. Kadry, A.** Predicting changes in subjective and objective indices of energy and fatigue using Virtual Reality (VR) (data collection in progress)
3. **Bootani, A.** Creating an ecologically valid Virtual Reality (VR) soccer specific decision-making using tool (data collection in progress)

## VII. Publications

- A. Juried or Refereed Journal Articles: n = 70

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‡ post-doctoral fellow under my supervision, \*graduate student, \*\*undergraduate student, Underline indicates corresponding author, † indicates joint senior authorship, ^ indicates mentee led research, # indicates research related to service  
 Publications as first author: 21  
 Publications as senior author: 31

1. Toczko, M., **Boolani, A.**, Martin, J. (accepted) Applicability of Ratings of Perceived Exertion as a Measure of Subjective Fatigue in First Responders: An Exploratory Study. *Research Directs*.
2. Lipscomb, T., van der Weyden, M., **Boolani, A.**, St. Andrews, B., Martin, J. (accepted) Agreement of Air Bike and Treadmill Protocols To Assess Maximal Oxygen Uptake: An Exploratory Study. *International Journal of Exercise Science*.
3. † Veeranki YR, Garcia-Retortillo S, Papadakis Z, Stamatis A, Appiah-Kubi KO, Locke E, McCarthy R, Torad AA, Kadry AM, Elwan MA, **Boolani, A.**, Posado-Quintero, H. (2024) Detecting Psychological Interventions Using Bilateral Electromyographic Wearable Sensors. *Sensors*. 24(5):1425. <https://doi.org/10.3390/s24051425>
4. Stamatis, A., Morgan, G., **Boolani, A.**, Papadakis, Z. (2024) The positive association between grit and mental toughness, enhanced by a minimum of 75 minutes of moderate-to-vigorous physical activity among US students. *Psych* 6(1), 221-225.
5. **Boolani, A.**, Martin, J., Jansen, E., Cortes, N., Caswell, S., Lackman, J., Drewson, S., & Smith, M. L. (2023). Associations of essential worker status, sex, lifestyle behaviors, and moods: Findings from a sample of working adults in the United States during the early stages of the COVID-19 pandemic. *Health Behavior Research*, 6(4), 9.
6. Soyly, T., Roess, A., **Boolani, A.**, Huddleston, K., Lawrence, G., Oetjen, C. (2023) Depression, Anxiety, Energy and Fatigue Among Nurses Who Cared for Patients During the COVID-19 Pandemic: A Cross Sectional Study. *Journal of Holistic Nursing* 08980101231200352
7. **Boolani, A.**, Gruber, A., ‡Torad, A., Stamatis, A. Identifying Current Feelings of Mild and Moderate to High Depression in Young, Healthy Individuals Using Gait and Balance: An Exploratory Study. *Sensors*, 23(14), 6624, <https://doi.org/10.3390/s23146624>
8. Martin, R., Fulk, G., Dibble, L., **Boolani, A.**, Vieira, E., Canbek, J. (2023) Modeling cues may reduce sway following sit to stand transfer for people with Parkinson disease. *Sensors*, 23, 4701 <https://doi.org/10.3390/s23104701>
9. Sax van der Weyden, M.\*, Martin, J., Rodriguez, J.\*\*, **Boolani, A.** (2023) An intense bout of acute aerobic exercise improves cognitive task performance in a sample of student-athletes from a HBCU: A randomized-controlled crossover design. *Sports*, 11(4):88 <https://doi.org/10.3390/sports11040088>
10. **Boolani, A.**, Martin, J., D'Acquisto, F., Balestra, C. (2023) Editorial: Feelings of Energy and Fatigue: Two Different Moods. *Frontiers in Psychology* 14:1180285. doi: 10.3389/fpsyg.2023.1180285
11. Gigliotti, H., Hodgson, C., Riley, M., Marshall, B, Ward-Ritacco, C., Martin, J., **Boolani, A** (2023) Trait energy and fatigue influence inter-individual mood and neurocognitive responses during work done while sitting, standing, and intermittent walking: A randomized-controlled crossover design. *Applied Sciences*, 13(7) 4241 <https://doi.org/10.3390/app13074241>
12. Martin, J., Huang, H, Johnson, R\*., Yu, L., Yager, C., Jansen, E., Martin, R., **Boolani, A.** (2023) Association between self-reported sleep quality and single task gait in young adults: A study using machine learning *Sleep Science* 16(04) e399-e407 DOI: 10.1055/s-0043-1776748
13. Martin J, Toczko M, Locke E, McCarthy R, Milani I, Barrios N, Koutoubi S, Ambegaonkar J, Dhokai N, **Boolani A.** (2023) Influence of Grit on Physical Activity, Sitting Time and Dietary Behaviors: A Multi-Study Analysis. *Sustainability*; 15(1):211. <https://doi.org/10.3390/su15010211>
14. Papadakis Z, Stamatis A, Manierre M, **Boolani A.** (2022) Preventive Medicine via Lifestyle Medicine Implementation Practices Should Consider Individuals' Complex Psychosocial Profile. *Healthcare.*; 10(12):2560. <https://doi.org/10.3390/healthcare10122560>

15. McKone, N.\*, Martin, J., Mondal, S., Sur, S, Milani, I.\*\*, Caswell, S., Cortes, N., **Boolani, A.** (2022) [Factors associated with motivation to perform mental and physical tasks during the initial lockdown period of the COVID-19 pandemic.](#) *International Journal of Exercise Science.* 15(5): 1600-1615.
16. **Boolani, A.** , Huang, H., Yu, C., Stark, M.\*\*, Grin, Z.\*, Roy, M.\*, Yager, C., Teymouri, S.\*, Bradley, D.\*\*, Martin, R., Fulk, G., Martin, J. (2022) [Association between self-reported prior nights' sleep and single-task gait in healthy, young adults: An exploratory study using machine learning.](#) *Sensors*, 22(19), 7406 <https://doi.org/10.3390/s22197406>
17. Stamatis, A. Adams, J.\*\*, Martin, J., Milani, I.\*\*, Caswell, S., Cortes, N., Smith, M., **Boolani, A** (2022) [Physical Activity, Sitting Time, and Feelings of Energy and Fatigue During the Early Stages of the COVID-19 Pandemic: Does Grit Make a Difference?](#) *Health Behavior Research* 5:3 <https://doi.org/10.4148/2572-1836.1134>
18. ^Hutak, J.\*, **Boolani, A.**, Byerley, L. (2022) [Energy Drink Usage by Students Attending an Online University.](#) *Journal of American College Health*, 1-9. <https://doi.org/10.1080/07448481.2022.2109036>
19. **Boolani, A.** , Fuller, D.\*, Moghaddam, M\*, Mondal, S., Martin, R., Jones, T., Hamido, E., Sur, S. (2022) [Vision-deprived progressive resistance training improves 1 repetition max bench press: An exploratory study.](#) *Vision*, 6(3), 47. <https://doi.org/10.3390/vision6030047>
20. **Boolani, A.**, Fuller, D.\*, Mondal, S., Gumpricht, E. (2022) [Trait energy and fatigue modify acute ingestion of adaptogenic-rich caffeinated beverages on neurocognitive performance.](#) *Applied Sciences*, 12(9), 4466. <https://doi.org/10.3390/app12094466>
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- B. [Articles Under Review](#) (‡post-doctoral fellow, \*graduate students, \*\*undergraduate students)
1. ^Ambegaonkar, J., Dhokai, N., Baraniecki-Zwil, G\*, Martin, J., Caswell, S., Cortes, N., **Boolani, A.** (under review) [Physical Activity, Diet, Sleep, and Hopes and Concerns in performing artists during the initial period of the COVID-19 pandemic](#) *Journal of Dance Medicine*
  2. Merritt, J., Ozga, M., Chavez, P., **Boolani, A.**, Baker, L. (under review) [No effect of permanent tattoos on local sweat concentration or excretion rate of select cytokines, cortisol, glucose, blood urea nitrogen, or lactate during exercise.](#) *European Journal of Applied Physiology*
  3. ^Martin, R., Fulk, G., Dibble, L. **Boolani, A.**, Canbek, J. (under review) [Modeling improves postural control following sit to stand in Parkinsons Disease](#) *Movement Disorders*
  4. ^Martin, R., **Boolani, A.**, Canbeck, J., Fulk, G., Dibble, L. (under review) [Cues to stand taller than typical effect postural control in Parkinson’s disease.](#) *Neuropsychologia.*
  5. ^Martin, R., **Boolani, A.**, Canbeck, J., Fulk, G., Dibble, L. (under review) [Impact of cues on motor control in sit to stand transfers for people with Parkinsons Disease.](#) *Journal of Neurological Physical Therapy*
  6. **Boolani,A.**, Kakar, R., Faris, A.\* , Fowler, G.\* , Sallahian, A\*., Yager, C., Taladay, P.\* , Martin, R., Bradley, D.\*\* , Martin, J., (revising to re-submit) [Evidence of mental and physical energy and fatigue traits in gait biomechanics.](#) *Journal of Non-verbal behaviors*
  7. ^Sampieri, S.\* , Neshover, L.\* , Carpenter, A.\* , Keefer, J.\* ,Yager, C., Pickett, D., Smith, M., **Boolani, A.** #, Stamatis, A. (under review) [A short report examining the relationship between trait energy and fatigue and feelings of depression in young healthy adults.](#) *Health Behavior Research*
  8. Pickett, A., Smith, M., **Boolani, A.** (under review) [Inability of exercise to modify the influence of trait energy and fatigue on state energy and fatigue](#) *Mental Health and Physical Activity*
  9. ^Totsy de Zepetnek, J, Chirico, D., Jenkins, E., Singh, J., Neary, P. **Boolani, A.** (under review) [Effects of extreme fatigue from a six-day expedition adventure race on psychological and physiological health: A case series](#) *PLOS One*

10. ^Poidomani, N., Dawes, J., Siedlik, J., **Boolani, A.**, Magrini, M. (under review) The influence of body composition, sex, and age on relative power clean performance in Division I basketball athletes *International Journal of Exercise Science*
11. Hamada, A., Moghaddam, M., **Boolani, A.** (under review) Time Response of Photobiomodulation Therapy using Near-Infrared Light Emitting Diodes on Muscle Fatigue in Health Non-Athletes. *BMC Sports Science, Medicine, and Rehabilitation*.
12. Dowd, D., Venturelli, A., Martin, J., **Boolani, A.** (under review) Impact of changes of feelings of energy and fatigue on sports and exercise performance: A systematic review *Medicine and Science in Sport and Exercise*
13. ^Marko, M., **Boolani, A** LaRue, J\*, Lillie, S.\*, Smith, M., &. LaFay, V. (under review) Back Squat Maneuvers by Older Adults: Identifying Technique Errors to Optimize Performance and Safety. *Journal of Strength and Conditioning*.

### C. Manuscripts in preparation

1. **Boolani, A.** Papadakis, Z., Garcia-Retortillo, S., Stamatis, A., Locke, E., McCarthy, R., Appiah-Kubi, K., Kadry, A., Torad, A., Elwan, M., Posado-Quintero A machine learning approach to identifying psychological interventions using intermuscular coordination: A randomized-controlled crossover design *Scientific Affairs*
2. Fatouros, P., **Boolani, A.** (in preparation) Effect of caffeine on feelings of energy and fatigue: A systematic review and meta-analysis. *Caffeine* (PROSPERO registration number CRD42021266324)
3. Grin, Z.\*, Downing, N.\*, Spittler, P\*., Goodrich, J., **Boolani, A.** (in preparation) A systematic review of proposed epigenetics modifications of trait mental and physical energy and fatigue. *Medical Hypothesis*
4. Robertson, B.\*, Fowler, G.\*, Faris, A.\*, Sallahian, A\*., Yager, C., Taladay, P\*., Martin, R., Martin, J. **Boolani, A.** (revising to resubmit) Evidence of mental and physical energy and fatigue traits in quiet balance. *Journal of Non-verbal behaviors*
5. Barrios, N.\*\*., Martin, J., Obiefule, K.\*., Martin, R., Yager, C., **Boolani, A.** (in preparation) Influence of physical activity and sedentary behavior on gait in young adults
6. **Boolani, A.**, Barrios, N.\*\*., Obiefule, K.\*., Martin, R., Yager, C., Martin J., (in preparation) Influence of physical activity and sedentary behavior on balance in young adults
7. **Boolani, A.**, Manierre, M. Multivariate predictors of trait and state mental and physical energy and fatigue (anticipate submitting to British Medical Journal)
8. Cahill, J.\*\*., Sur, S., **Boolani, A.** Women are less energetic and have higher self-perceived mental workload at an engineering school (anticipate submitting to The Journal of Higher Education)
9. Teymouri, S., Alvarez J., Martin, R., Heater, S., **Boolani, A.** The intensity of depressive moods influences gait: A pilot study using machine learning
10. Yager, C., **Boolani, A.** A systematic review of the most commonly theorized reasons for changes in gait and postural control in patients with Alzheimer's.

### D. Book Chapters

1. Rivera, S., Hoffman, C., Manierre, M., **Boolani, A.** (2022) Beyond the Statement: Faculty-driven Antiracism Work at a Predominantly White STEM University *Cases on Academic Program Redesign for Greater Racial and Social Justice* (pp. 243-261). IGI Global (invited book chapter)



2. Dupree, E.\*, Goodwin, A.\*\*, Darie, C., **Boolani, A.** [A Pilot Exploratory Proteomics Investigation of Mental Fatigue and Mental Energy](#). *Advancements of Mass Spectrometry in Biomedical Research*, Eds. *Alisa G. Woods & Costel C. Darie*, *Advances in Experimental Medicine and Biology Series* (ISSN: [0065-2598](#)), Springer International Publishing Switzerland (2019; 2nd Edition).
  3. **Boolani, A.**, Channaveerappa, D.\*, Dupree, E.\*, Jayathirtha, M.\*, Aslebagh, R.\*, Grobe, S.\*\*, Wilkerson, T.\* & Costel Darie. [Current trends in analysis of cortisol and its derivatives](#). *Advancements of Mass Spectrometry in Biomedical Research*, Eds. *Alisa G. Woods & Costel C. Darie*, *Advances in Experimental Medicine and Biology Series* (ISSN: [0065-2598](#)), Springer International Publishing Switzerland (2019; 2nd Edition).
  4. **Boolani, A.** Nervous System. In: *Introduction to Biology*. American Public University Press. (book rescinded)
  5. **Boolani, A.** Nervous Tissue. In: *Human Anatomy and Physiology*. American Public University Press. (book rescinded)
- E. Non-Refereed Work
1. Jacobson, B., Smith, D., Fronterhouse, J., Kline, C., **Boolani, A.** (2010) [Assessment of Easytone® Exercise Program on Muscular Strength and Functional Capacity in Elderly Participants](#)
  2. Jacobson, B., Smith, D., Fronterhouse, J., Kline, C., **Boolani, A.** (2009) [OSU Senior Exercise Assessment of Shapemaster Easytone](#).
  3. **Boolani, A.**(2010) [Use of peer reviewed sources in academic writing](#). American Military University newsletter
  4. **Boolani, A.** (2010) [Hostility and Narrow and Broad Focus and Its Effects on Basketball Performance](#). Yahoo.com
  5. **Boolani, A.** (2010) [Determining the Identify of an Unknown Metal](#) Yahoo.com
  6. **Boolani, A.** (2010) [How to Hire the RIGHT Personal Trainer](#). Yahoo.com
  7. **Boolani, A.** (2010) [ECG Testing with College Basketball Players](#). Yahoo.com
  8. **Boolani, A.** (2010) [How to increase your bench press strength](#). Yahoo.com
  9. **Boolani, A.** (2010) [Basketball Skills and Drills](#). Yahoo.com
  10. **Boolani, A.** (2009) [Short on time basketball workout](#). Yahoo.com
  11. **Boolani, A.** (2009) [How to Eat Properly](#). Yahoo.com
  12. **Boolani, A.** (2009) [Scientific Abdominal Training](#). Yahoo.com
  13. **Boolani, A.** (2009) [Effects of Anabolic Androgenic Steroids on Performance](#). Yahoo.com
  14. **Boolani, A.** (2009) [Obesity and Sexual Maturation](#). Yahoo.com
  15. **Boolani, A.** (2009) [Pilonidal Cysts](#). Yahoo.com
  16. **Boolani, A.** (2009) [Identifying and Correcting Improper Squat Techniques](#). Yahoo.com
  17. **Boolani, A.** (2009) [A Satirical View on Fighting Obesity in the United States](#). Yahoo.com
- F. Intellectual Property\*

#### Patents

1. **Under review: Boolani, A., Russell, B. Multi-sensor system detection of non-contact injury risks and physiological system limitations in athletes** – in process of filing
2. **Provisional: Boolani, A. Simulation training for improving cognitive performance.** US Provisional patent application- sold in 2020.

### Copyrights

1. **Boolani, A., Rapid Visual Information Processing Task- Java script.**
2. **Boolani, A., Continuous Task Performance- Java script.**
3. **Boolani, A., Serial Subtract 3 Task- Java script.**
4. **Boolani, A., Serial Subtract 7 Task- Java script.**
5. **Boolani, A., Concentration Task Grid- Java script.**
6. **Boolani, A., Williams, R., Josephs, D. Mood and behavior diagnostic tool- Java script.**
7. **Boolani, A., Stroops Task- Java script.**
8. **Boolani, A. Biological Activation Reaction Test (BART)- Java script**
9. **Boolani, A. Alzheimer's Clock Draw Test- Java script**
10. **Boolani, A. Distractors- Java script**
11. **Boolani, A. Eriksen Flanker- Java script**
12. **Boolani, A. Fast Counting- Java script**
13. **Boolani, A. Serial Addition- Java script**
14. **Boolani, A. Spatial Memory- Java script**
15. **Boolani, A. Tapping- Java script**
16. **Boolani, A. Trailmaking Test A & B- Java script**
17. **Boolani, A. Visual memory- Java script**
18. **Boolani, A. Verbal memory- Java script**

\*All intellectual property sold in 2020 with the sale of Your Health ABC dba PsychTech Solutions

## VIII. Presentations and Posters

### A. Invited Presentations

1. **Boolani, A. Artificial Intelligence in Sports and Exercise Science: The reality, the hype, the promises, and the pitfalls.** European Congress of Sports Science, July 2024

February, 2024

2. **Boolani, A.** The role of AI in health and exercise. New York Institute of Technology Industry Leaders Lecture Series, April 2024.
3. **Boolani, A.** Promises and Pitfalls of AI in Sports Science. New York Institute of Technology Dean's Lecture Series, March 2024.
4. **Boolani, A.** The impact of mental energy and mental fatigue on football performance National Football League, March 2024
5. **Boolani, A.** Influence of mental energy and mental fatigue on human performance African American Performance Coaches Association, February 2024
6. **Boolani, A.** Influence of mental energy and mental fatigue on baseball performance and injury risks. Major League Baseball Spring Training Symposium, February, 2024.
7. **Boolani, A.** Using Machine Learning to Identify Mood States: The Promises and Pitfalls Greater New York American College of Sports Medicine, November 2023
8. **Boolani, A.** Influence of mental energy and mental fatigue on baseball performance and injury risks Professional Baseball Athletic Trainer Annual Meeting, November 2023
9. **Boolani, A.** Development of the Digital Athlete Twin for Improving Sports Performance United States Olympic and Paralympic Committee, October 2023
10. **Boolani, A.** Mental Energy and Mental Fatigue: Understanding differences in the two moods National Athletic Trainers Association, June 2023
11. **Boolani, A.** Energy and Fatigue: Two separate moods? Johns Hopkins University, Research Fireside Chat, June 2023
12. **Boolani, A.** Cervical erector inter-muscular coordination during walking under various psychological conditions. American College of Sports Medicine, May 2023
13. **Boolani, A.** Sports Science-ish University of Illinois at Chicago, April 2023
14. **Boolani, A.** GED to PhD Plattsburgh High School, March 2023
15. **Boolani, A.** GED to PhD CFES Brilliant Pathways, February 2023
16. **Boolani, A.** GED to PhD IMPETUS, February 2023
17. **Boolani, A.** Use of IMU signals in assessing subjective and objective measures of cognition EE502 Machine Learning on Biomedical Signals, Clarkson University, September 9, 2022.
18. **Boolani, A.** Identifying feelings of energy and fatigue as two distinct unipolar moods New York University Neuroscience Department, Science Society, May 18, 2022.
19. **Boolani, A., Barrios, N.** Using machine learning to identify feelings of energy and fatigue in human movement Greater New York American College of Sports Medicine Conference, April 2022.
20. **Boolani, A.** Computational methods in kinesiology and exercise science research George Mason University, October 2021.
21. **Boolani, A.** Energy and fatigue: A tale of two different moods Ignite Speaker Series, October 2020.

22. **Boolani, A., Fuller, D.** The importance of measuring trait energy and fatigue in nutrition research 6<sup>th</sup> Annual Dubai International Nutrition Conference, October 2020.
23. **Boolani, A.** The effect of cognitive fatigue on falls. Fall Prevention Symposium Weill Cornell Medical Center, September 2020.
24. **Boolani, A.** Accidental discoveries through re-examining data. Predictive Analytics World Healthcare, June, 2020.
25. **Boolani, A.** Feelings of Energy and Fatigue influence gait and posture uniquely University of Waterloo Biomedical Seminar Series, 2019
26. **Boolani, A.** Energy and Fatigue may be two different yet overlapping moods. Walsh Scholars Seminar Series, 2019.
27. **Boolani, A.** Impact of Cognitive Fatigue on Fall Risks in Older Adults Walsh Scholars Seminar Series, 2018
28. **Boolani, A.** Increasing student research through involvement in in-class projects. Presented to Oklahoma State Regents for Higher Education 3<sup>rd</sup> Annual Promoting Undergraduate Research Conference, Oklahoma City, OK, April 13, 2012.
29. Guest expert at Meharry Medical College Sports Fellowship meetings- Fall 2010, Spring 2011
30. Guest lecturer Bellevue University- May 2009, May 2010, May 2011
31. Guest lecturer for Physical Therapy Department Tennessee State University (TSU)- December 2010

#### B. Podcasts

1. Sleep4Performance- Upcoming
2. N of 5- Exercise, energy and fatigue: What works for you?
3. The Lindsay Elmore Podcast- States and Traits of Energy and Fatigue.
4. ALL ME Podcast- Taylor Hooten Foundation- Impact of Mental and Physical Fatigue on Health
5. NPR- First Person: The Best of 2021
6. Only a game: WBUR- Jazz on the putting green: Real life golf hack

#### C. Peer-Reviewed Conference Presentations

1. **Boolani, A., Hinkley, J.M., Merritt, J., Ozga, M., Alfred, S., Baker, L.B.** Changes in Mental and Physical Energy and Fatigue Have Unique Biomarkers: An Exploratory Study. American College of Sports Medicine, May, 2024, Boston, MA.
2. Stamatis, A., Matsuo, H., Yager, C.C., **Boolani, A., Morgan, G.** Stratification of COVID-19 Diagnostic Profiles Via Finite Mixture Modeling: Immunology and Rehabilitation Implications. American College of Sports Medicine, May, 2024, Boston, MA.
3. Matsuo, H., Stamatis, A., Yager, C.C., **Boolani, A., Morgan, G.** AI-Driven Analysis of Diagnostic Profiles in COVID-19 Patients: Implications for Healthcare Interventions. Texas American College of Sports Medicine, February 22-23, 2024 Waco, Texas.
4. Stamatis, A., Morgan, G.B., Yager, C., **Boolani, A.** AI-Drive Analysis Reveals Diverse Secondary Diagnosis Profiles in COVID-19 Patients. Presentation at the UofL Health Research Day. Louisville, KY.
5. Oloruntoba, O.\*, Aggad, R., Soladoye, E., MErianos, A.L., Bergeron, C.D., **Boolani, A., Fiser, K.A., Smith, M.L.** Musculoskeletal pain and depression among health care workers providing direct patient care. Presented at American Public Health Association, November, 12-15, 2023, Atlanta, GA
6. Morgan, G.B., Yager, C., **Boolani, A., Stamatis, A.** AI-Driven Analysis of Diagnostic Profiles in COVID-19 Patients: Implications for Healthcare Interventions. CAIRS Symposium on Artificial Intelligence in Healthcare, Louisville, KY, October, 2023.

7. Hormack, A., **Boolani, A.**, Roberts, N., Martin, J. The relationship between grit and physical activity: A systematic review *National Strength and Conditioning Association National Conference*, July, 2023, Las Vegas, NV
8. Egret, C., Papadakis, Z., Stamatis, A., **Boolani, A.** Bilateral variability in Q-Angle and Lower-Limb Performance among Division I Black Basketball Players: Sex Differences. *European College of Sports Science*, July 5-7, 2023
9. Wichramasinghe, M., Ogunleye, O., Dodamgodage, S., Mondal, S., **Boolani, A.** Mood Responses to Various Exercise Types Using the Ontological Definitions of Exercise. *Joint Statistics Meeting*, August 2023, Toronto, Canada (Invited Presentation)
10. **Boolani, A.**, Torad, A., Stamatis, A. Using gait/balance to identify healthy individuals' feelings depressed: An exploratory study using machine learning. *American College of Sports Medicine National Conference*, May 2023. (Rapid Fire Presentation)
11. Golzari, K., **Boolani, A.** Papadakis, Z., Garcia-Retortillo, S., Stamatis, A., Locke, E., McCarthy, R., Appiah-Kubi, K., Kadry, A., Torad, A., Elwan, M., Posado-Quintero Cervical Erector Spinae Intermuscular coordination while using noise cancellation headphones during walking. *American College of Sports Medicine National Conference*, May 2023.
12. Vilmeau, S., **Boolani, A.**, Stamatis, A., Papadakis, Z. Identifying Anger through Gait and Balance Analysis using Machine Learning Models. *Greater New York American College of Sports Medicine*, April 2023.
13. Cormie, E., **Boolani, A.**, Papadakis, Z., Stamatis, A. Impact of Mood States on Executive Function Testing: Considerations for Sports Medicine Professionals. *Greater New York American College of Sports Medicine*, April 2023.
14. Hayes, N., Papadakis, Z., **Boolani, A.**, Stamatis, A. Effects of Last Meal Timing on Sleep Efficiency in College Students during COVID-19. *Greater New York American College of Sports Medicine*, April 2023.
15. Herrera, G., Papadakis, Z., **Boolani, A.**, Stamatis, A. Screen Time and Mental Work in College Students during COVID-19: Implications for Occupational Therapy. *Greater New York American College of Sports Medicine*, April 2023.
16. Golzari, K., **Boolani, A.** Papadakis, Z., Garcia-Retortillo, S., Stamatis, A., Locke, E., McCarthy, R., Appiah-Kubi, K., Kadry, A., Torad, A., Elwan, M., Posado-Quintero Cervical Erector Spinae Intermuscular coordination while using noise cancellation headphones during walking. *Southeastern American College of Sports Medicine Conference*, November, 2022.
17. Wigger, T., Matsuo, H., McCarthy, R., Locke, E., Morgan, G., Martin, J., **Boolani, A.**, Stamatis, A. Sleep, Diet, and Physical Activity during COVID-19: Practitioners Should Be Aware of Considerable Individual Differences. *Greater New York American College of Sports Medicine Conference*, November, 2022.
18. Taylor, M., Matsuo, H., Morgan, G., Papadakis, Z., **Boolani, A.**, Stamatis, A. Grit explained 29.4% of the Variability in Mental Toughness of Student-Athletes: Perseverance Was Primarily Responsible *Greater New York American College of Sports Medicine Conference*, November 2022.
19. Barber, J, Papadakis, Z., Manierre, M., **Boolani, A.**, Stamatis, A. Barriers to Adopting Lifestyle Behaviors under the Prism of Lifestyle Medicine. *Greater New York American College of Sports Medicine Conference*, November 2022.
20. Appiah-Kubi, K., Barrios, N.\*\*, Yager, C., **Boolani, A.** High sedentary behavior negatively impacts postural balance but not gait. *The International Society of Posture and Gait Research World Congress*, 2022. July, 2022.
21. Oloruntoba, O.\*, Aggad, R., Soladoye, E., MErianos, A.L., Bergeron, C.D., **Boolani, A.**, Fiser, K.A., Smith, M.L. (2022). Musculoskeletal pain and depression among health care workers providing direct patient care. Presented at Texas Public Health Association Annual Education Conference, May 18-20, 2022. [Virtual]
22. Toczko, M.\*, **Boolani, A.** Kearney, J., Fyock-Martin, M. Martin, J. Applicability of Ratings of Perceived Exertion as a measure of subjective fatigue in first responders: An exploratory study *National Strength and Conditioning Association National Conference*, July, 2022. Platform presentation
23. Hromyak, A.\*, Toczko, M.\*, Martin, J., Lipscomb, T., Fyock-Martin, M., **Boolani, A.** Associations between feelings of mental and physical energy and fatigue with fitness test performance in SWAT officers: An exploratory study. *National Strength and Conditioning Association National Conference*, July, 2022.

24. **Boolani, A.** Yager, C., Locke, E.\*\*, Li, S.\*, Dey, S. Identifying prevalence of a ME/CFS diagnosis post-COVID and pre-existing conditions that may increase the likelihood of a positive ME/CFS diagnosis. *International Association of Chronic Fatigue Syndrome Myalgic Encephalomyelitis, 2022.* Platform Presentation
25. Barrios, N.\*\*, Dodamgodge, S.\*, Ogunleye, O.\*, Wickramasinghe, M.\*, Mondal, S., Stamatis, A., **Boolani, A.** Mood responses to various exercise types using ontological definitions of exercise. *Greater New York American College of Sports Medicine, 2022*
26. Dowd, D.\* , Bunal, K., **Boolani, A.** Lower Leg Injury- Basketball. *Greater New York American College of Sports Medicine, 2022*
27. Pellerin, K.\*\* , Parillo, T.\*\* , Morgan, G., Martin, J., Caswell, S., Cortes, N., **Boolani, A.**, Stamatis, A. Grit had a positive impact on moderate-to-high intensity activity during the COVID-19 health crisis. *Greater New York American College of Sports Medicine, 2022.*
28. Piper, J.\*\* , Siddiq, B\*., Matsuo, H\*., Morgan, G., **Boolani, A.**, Stamatis, A. Predicting In-season performance from Pre-season Power and Gait Metrics in Collegiate Basketball: Preliminary Evidence *Greater New York American College of Sports Medicine, 2022.*
29. **Boolani, A.**, Huang, H.\* , Johnson, R.\* , Yu, L., Jansen, E., Martin, R., Yager, C., Jacobson, B., Martin, J. Association between self-reported sleep quality and single-task gait in young adults: A study using machine learning *American College of Sports Medicine National Conference, 2022 (Rapid Fire Platform)*
30. Dowd, D.\* , Stark, M.\*\* , Huang, H.\* , Yu, L., Martin, R., McCarthy, R.\*\* , Locke, E.\*\* , Yager, C., Smith, M., Jacobson, B., **Boolani, A.** Do healthy young adults with current feelings of anxiety have impaired balance? An exploratory study. *American College of Sports Medicine National Conference, 2022 (poster presentation)*
31. Stark, M.\*\* , Huang, H.\* , Yu, L., Martin, R., McCarthy, R.\*\* , Locke, E.\*\* , Yager, C., Smith, M., Jacobson, B., **Boolani, A.** Identifying individuals who current report feelings of anxiety through gait and balance using machine learning. *American College of Sports Medicine National Conference, 2022 (Rapid Fire Platform)*
32. Barber, A.\*\* , McKone, N.\* , Martin, J., Mondal, S., Sur, S., Milani, I.\*\* , Cortes, N., Caswell, S., **Boolani, A.**, Stamatis, A. Factors influencing motivation to perform mental and physical task during the initial lockdown period of the COVID-19 Pandemic. *International Journal of Exercise Science Conference Proceedings, 2022.* (Undergraduate research finalist)
33. Carter, M.\*\* , Adams, J.\*\* , Martin, J., Smith, M., Milani, I.\*\* , Caswell, S., Cortes, N., **Boolani, A.**, Stamatis, A., Papadakis, Z. The limited role of grit in the associations between lifestyle behavior and feelings of energy and fatigue during the early stages of the COVID-19 pandemic. *International Journal of Exercise Science Conference Proceedings, 2022.* (Undergraduate research finalist)
34. Siddiq, B.\* , **Boolani, A.**, Huang, H., Yu, L., Stark, M.\*\* , Grin, Z.\* , Yager, C., Teymouri, S.\* , Bradley, D.\*\* , Martin, R., Martin, J. Stamatis, A. Association between Self-Reported Prior Nights' Sleep and Single-Task Gait in Healthy Young Adults: An Exploratory Study Using Machine Learning *International Journal of Exercise Science Conference Proceedings, 2022.*
35. Harris, M.\*\* , Nesshoever, L.\* , Carpenter, A.\* , Sampieri, S.\* , Keefer, J.\* , Yager, C., Pickett, A., Smith, M., **Boolani, A.**, Stamatis, A., Papadakis, Z. Examining the Relationship Between Trait Energy and Fatigue and Feeling of Depression in Health Young *International Journal of Exercise Science Conference Proceedings, 2022*
36. Fountain, C.\*\* , **Boolani, A.**, Amsbaugh, S.\* , Matsuo, H.\* , Morgan, G., Stamatis, A. Association Between Efficiency of Movement Patterns and Basketball Performance: An Exploratory Study. *International Journal of Exercise Science Conference Proceedings, 2022.* (Undergraduate research finalist)
37. McCarthy, R.\*\* , Locke, E.\*\* , Elwan, M., Kadry, A., Torad, A., Appiah-Kubi, K., Towler, C., **Boolani, A.** Association between heart rate and skeletal muscle oxygen saturation in upper and lower extremity during self-paced walking *Experimental Biology, 2022*
38. Oloruntoba, O.\* , Aggad, R., Soladoye, E., Merianos, A.L., Bergeron, C.D., **Boolani, A.**, Fisker, K.A., Smith, M.L. Musculoskeletal pain and depression among healthcare workers providing direct patient care. Presented at *Texas Public Health Association Annual Education Conference, May 18-20, 2022 [virtual]*

39. Pickett, AC, Smith, ML, Martin, J., Caswell, S., Cortes, N., **Boolani, A** A one-year longitudinal trend analysis of self-reported physical activity and dietary behaviors during the COVID-19 pandemic *American Academy of Health Behaviors National Conference*, March 13-15, 2022, Key Largo, FL
40. Kingsley, N., Amsbaugh, S.\*, Papadakis, Z., Morgan, G., & **Boolani, A.** (2021). Sex Moderates the Fitness Tests-Performance Index Relationship in Collegiate Basketball: A Case Study. In *International Journal of Exercise Science: Conference Proceedings* (Vol. 2, No. 13, p. 17).
41. Martin, R., Fulk, G., Dibble, L., **Boolani, A.**, Canbek, J. (2021) Effects of modeling on motor control and sway during sit to stand in Parkinson Disease. *Academy of Neurologic Physical Therapy Annual Conference*, On-Demand Conference (winner of Degenerative Diseases Special Interest Group Clinical Research Award).
42. Ambegaonkar, J., Dhokai, N., Baraniecki-Zwil, G.\*\*, Martin, J., Caswell, S., Cortes, N., **Boolani, A.** (2021) Physical Activity, Diet, Sleep, and Hopes and Concerns in performing artists during the initial period of the COVID-19 pandemic. *International Association for Dance Medicine & Science*, Denver, CO
43. Toczko, M.\*, **Boolani, A.**, Ayo-Gbenjo, E. Martin, J., Ambegaonkar, J. (2021) Performing artists maintain healthy nutritional habits and physical activity independent of grit scores during the COVID-19 pandemic. *International Association for Dance Medicine & Science*, Denver, CO
44. Lindsey, B.\*, **Boolani, A.**, Merrigan, J.\*, Cortes, N., Caswell, S., Martin, J. (2021) Employment Status Is Related To Time Sitting But Not Physical Activity During The Covid-19 Pandemic. *American College of Sports Medicine National Conference*, Washington, DC.
45. Toczko, M.\*, **Boolani, A.**, Guempel, B.\*, Cortes, N., Caswell, S., Milani, I.\*\*, Martin, J. (2021) Influence of Physical Activity And Grit On Depression During The COVID-19 Pandemic. *American College of Sports Medicine National Conference*, Washington, DC.
46. Guempel, B.\*, **Boolani, A.**, Toczko, M.\*, Cortes, N., Caswell, S., Milani, I.\*\*, Martin, J. (2021) Influence of Physical Activity And Grit On Anxiety During The COVID-19 Pandemic. *American College of Sports Medicine National Conference*, Washington, DC.
47. Roy, M.\*\*, **Boolani, A.**, Yager, C., Teymouri, S.\*, Vogel-Rosbrook, C.\*, Taladay, P.\*, Martin, J. (2021) Influence of Obtaining Recommended Sleep Duration on Single-Task Gait in Healthy Adults. *American College of Sports Medicine National Conference*, Washington, DC.
48. Hartzel, B.\*\*, Martin, J., Estep, A., Toczko, M.\*, **Boolani, A.** (2021) Relationships Between Grit and Healthy Lifestyle Behaviors In Undergraduate College Students During the Covid-19 Pandemic. *American College of Sports Medicine National Conference*, Washington, DC.
49. Estep, A., Martin, J., Toczko, M.\*, **Boolani, A.** (2021) Influence Of Grit And Lifestyle On Mental Health in College Students During the Covid-19 Pandemic. *American College of Sports Medicine National Conference*, Washington, DC.
50. Kowalski, K.\*, **Boolani, A.**, Christie, A. Sex differences in the impact of state and trait fatigue on gait variability *American Physical Therapy Association (APTA) Combined Sections Meeting 2021*, Orlando, Florida
51. LaFay, V., Martin, J., Johnson, R.\*, Yager, C., Vogel-Rosbrook, C.\*, **Boolani, A.** Effects of sleep quality on gait in young healthy adults *American Physical Therapy Association (APTA) Combined Sections Meeting 2021*, Orlando, Florida
52. Johnson, QR, Kukic, F, Trevino, MA, **Boolani, A**, Dawes, JJ. Sex-related differences in body composition, power, sprint ability, and agility among NCAA Division I basketball players. *NSCA National Conference 2020*.
53. Rich, G., Kungu, K., **Boolani, A.** Career Situation Awareness and On-Campus Engagement Experiences of Student-Athletes: Examining Racial Minorities in an HBU and PWI Context. *College Sport Research Institute*. University of South Carolina April 1-3, 2020. Oral presentation (presentation cancelled due to COVID-19)
54. Stark, M.\*\*, Yager, C., Taladay, P.\*, Teymouri, S.\*, Alvarez, J., Vogel-Rosbrook, C.\*., Martin, R., **Boolani, A.** Manifestation of Anxiety in Gait. *Experimental Biology*, April 4-7, 2020, San Diego, CA (presentation cancelled due to COVID-19)

55. **Boolani, A.**, Yager, C., Smith, M.\*, Monday, S.\*, Sathiyakumar, T.\*, Senarathna, D.\*, Teymouri, S.\*, Vogel-Rosbrook, C.\*, Alvarez, J.\*, Taladay, P.\*, Martin, R. (2019). State Mental Energy Influences Posture During Vision-Occluded States. Presented at the World Congress on Falls and Postural Stability, December 4-7, 2019, Kuala Lumpur, Malaysia.
56. Smith, M. L., Vieira, E., **Boolani, A.**, Herrera-Venson, A., Skowronski, S., & Cameron, K. A. (2019). Falls in the United States: Magnitude, risk, disparities, and solutions. Presented at the World Congress on Falls and Postural Stability, December 4-7, 2019, Kuala Lumpur, Malaysia.
57. Rich, G., Kungu, K., **Boolani, A.** Student-Athletes at an historically Black university (HBU): Examining the relationship between student-engagement on campus and career situation awareness. Presented at Tenth International Conference on Sport and Society (June 2019), Toronto, Canada. (oral presentation)
58. Smith, M., Coffey, T.\*, Bergeron, C., Shacham, E., Goltz, H., **Boolani, A.** Sexually transmitted infection knowledge among older adults: Psychometrics and test-retest reliability. Presented at Gerontological Society of America (GSA) meeting 2019, Austin, TX
59. **Boolani, A.**, O'Connor, P., Reed, J.\*, Ma, S., Mondal, S. Predictors of feelings of energy differ from predictors of fatigue among graduate health sciences students. Presented at American Physiological Society- Experimental Biology (FASEB EB) meeting 2019, Orlando, FL.
60. **Boolani, A.**, Ryan, J.\*\*., Vo, T.\*, Wong, B.\*, Banerjee, N., Banerjee, S., Fulk, G. Declines in mental energy led to decreases in functional balance: A pilot study using machine learning to detect changes in functional balance. Presented at the Annual Meeting of the American College of Medicine, 2019, Orlando, FL
61. Towler, C., Fulk, G., Wong, B.\*, Vo, T.\*, **Boolani, A.** Performance of mental tasks negatively affects postural control and may lead to increased fall risks. Presented at American Physical Therapy Association (APTA) Combined Sections Meeting 2019, Washington, DC.
62. Turcott, R, **Boolani, A.** & Smith, M.L. Mapping the Rink: Migration Patterns of Male and Female NCAA Division I Ice Hockey Student-Athletes from North America and Europe. Presented at the European Sport Management Annual Conference, Malmo, Sweden, September 5-8, 2018.
63. **Boolani, A.**, Moghaddam, M.\*, Baghurst, T., Jones, T., Hamido, E., Jacobson, B. . Assessing Absolute and Relative One-Repetition Maximum Bench Press Following a Six-week Blindfolded Training. Presented at American College of Sports Medicine Annual Meeting, May 2018, Minneapolis, MN.
64. **Boolani, A.**, Grobe, S.\*\*., Josephs, D.\*\*., Smith, M., Gumprich, E. Acute effects of caffeine-containing, adaptogenic-rich natural beverages on sustained attention, mood, heart rate, blood pressure and fine motor skills. Presented at American Society of Nutrition, June 2018, Boston, MA.
65. Rogers, E.\*\*., Goodwin, A.\*\*., Avolio, A.\*\*., Fulk, G., Martin, R., **Boolani, A.** Relationship between higher and lower level serial subtraction task performance and gait during a 6-minute walk test. Presented at the American Physiological Society- Experimental Biology, April 2018.
66. Goodwin, A.\*\*, Avolio, A.\*\*., Martin, R., **Boolani, A.** The impact of cognitive fatigue on aerobic output in a 6-minute walk test among older adults. Presented at the American Physiological Society- Experimental Biology, April 2018.
67. Avolio, A.\*\*, Goodwin, A.\*\*, Fulk, G., Martin, R., **Boolani, A.** Impact of mood after cognitive fatigue on gait in older adults. Presented at the American Physiological Society- Experimental Biology, April 2018.
68. Towler, C., Fulk, G., LaRue, J.\*\*., Bronson, H.\*\*., LeCours, B.\*\*., **Boolani, A.** Accuracy of 6 activity monitors during the 6-minute walk test to measure distance and steps walked. Presented at Combined Sections Meeting of the American Physical Therapy Association, February 2018.
69. Towler, C., Fulk, G., LaRue, J.\*\*., Bronson, H.\*\*., LeCours, B.\*\*., **Boolani, A.** Accuracy of 4 activity monitors during the 6-minute walk test to measure caloric expenditure and heart rate. Presented at Combined Sections Meeting of the American Physical Therapy Association, February 2018.



70. **Boolani, A.**, Fulk, G., LaFay, V., Reid, J.\*, Towler, C., Martin, R. Mood differences between three cohorts of doctor of physical therapy students. Presented at Combined Sections Meeting of the American Physical Therapy Association, February 2018.
71. **Boolani, A.**, Fulk, G., LaFay, V., Reid, J.\*, Towler, C., Martin, R. Differences in physical activity across three cohorts of doctor of physical therapy students. Presented at Combined Sections Meeting of the American Physical Therapy Association, February 2018.
72. Grobe, S.\*\*, Baghurst, T., Martin, R., **Boolani, A.** Relationship between polyphenol consumption and physical activity and sleep. Presented at Experimental Biology April 2017, Chicago, IL.
73. tiRiele, J.\*\*, Baghurst, T., Towler, C., **Boolani, A.** The relationship between chronic polyphenol and, caffeine consumption and mood. Presented at Experimental Biology, March 2016, San Diego, CA.
74. **Boolani, A.**, Bronson, H.\*\*, Towler, C., Baghurst, T., Jacobson, B. Relationship between coaches' subjective perception of players' basketball abilities and their on-court performance. Presented at Annual Meeting of American College of Sports Medicine, May 2016, Boston, MA.
75. **Boolani, A.**, Jacobson, B., Butler, E.\*\* Impact of music, positive and negative motivation on jump shooting in collegiate basketball players. Annual Meeting of American College of Sports Medicine, May 29-31, 2014, Orlando, FL.
76. **Boolani, A.**, Lindenheimer, J., Loy, B., O'Connor, P. Acute effects of brewed cocoa consumption on sustained attention, motivation to perform work and feelings of anxiety, energy and fatigue. Experimental Biology, 2014, San Diego, CA.
77. **Boolani, A.** Jacobson, B., Tammareddi, K., Kostka, K., Roszel, W.\*\* Changes in Asymmetries between Single-leg and Double-Leg Support Times Over the Course of a Bruce Protocol VO2Max Test. Presented at the Annual Meeting of American College of Sports Medicine, May 28- June 1, 2013, Indianapolis, IN.
78. **Boolani, A.**, Tammareddi, K., Jacobson, B., Roszel, W.\*\* Effects of carbohydrate and electrolyte supplementation on processing speed, selective attention and VO2Max. Presented at Annual Meeting of American College of Medicine, May 28-June 2, 2012, San Francisco, CA.
79. Grace, J\*, **Boolani, A.** Changes in Body Mass and Absolute and Relative Bench Press, Squat and Leg Press Strength in NCAA Division I Football Players. Presented at Annual Meeting of American College of Medicine, May 28-June 2, 2012, San Francisco, CA.
80. Walker, M.\*, **Boolani, A.**, Warren, A., Kline, C., Guerrero, J. Gender differences in Leg length, Q-Angle, Navicular Drop and Tibial Torsion of College Age Subjects. Presented at Annual Meeting of American College of Medicine, May 28-June 2, 2012, San Francisco, CA.
81. **Boolani, A.**, Hodges, D.\*\*, Guerrero, J. Correlation between squat, power clean, weight, height, 100- and 200-meter run. Presented at Annual Meeting of American Alliance for Health, Physical Education, Recreation and Dance, March 13-17, 2012, Boston , Massachusetts.
82. Guerrero, J., **Boolani, A.**, Troglin, K\*\*. Familial Determinants of Sedentary Behaviors that Contribute to Childhood Obesity. Presented at Annual Meeting of American Alliance for Health, Physical Education, Recreation and Dance, March 13-17, 2012, Boston , Massachusetts.
83. Cravens, M.\*, Gallivan, K., **Boolani, A.** Relationship between body composition, body weight, BMI and number of semesters spent in school. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
84. Young, D\*\*., Calhoun, M. & **Boolani, A.** Affects of music type on maximal pushup output in college-age students. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
85. Allen, E.\*\*, Prospero, V.\*\* & **Boolani, A.** Differences between jump height for counter-movement and squat jump in college age students. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
86. Driscoll, J.\* , Hill, E.\*\* , & **Boolani, A.** Affects of different stretching protocols on 40-yard dash times. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.

87. Smith, J.\*\*, Burke, S.\*\* & **Boolani, A.** Which region of the country produces the best left-handed softball batters? TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
88. Hamido, E., Smith, R\*, & **Boolani, A.** Differences in 2 club vs. 1 club warm-up on driving accuracy in collegiate golfers. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
89. Turcott, R. & **Boolani, A.** Affects of music on basketball jumpshooting in collegiate basketball players. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
90. Jones, T. & **Boolani, A.** Relationship between cognitive processing speed and basketball statistics in collegiate basketball players. TAPHERD conference, Murfreesboro, TN, October 27-29, 2013.
91. **Boolani A,** Jacobson BH, Gill R.\*\* Effect of selected audio input on putting accuracy in Division I golfers. American College of Sports Medicine Central States Chapter Annual Meeting, Columbia, Missouri, Oct. 18-19, 2012.
92. **Boolani, A.** Increasing student research through involvement in in-class projects. Presented to Oklahoma State Regents for Higher Education 3<sup>rd</sup> Annual Promoting Undergraduate Research Conference, Oklahoma City, OK, April 13, 2012.
93. Roszel, W.\*\*, **Boolani, A.** Do Kayakers Perform More Proficiently on a Rowing Ergometer Than Rowers Perform On a Kayak Ergomete? Presented at Texas American College of Sports Medicine conference. Austin, Texas, March 1-2, 2012.
94. McArthur, J.\*\*, Adair, J., **Boolani, A.** Correlation between weight, squat, deadlift and rowing ergometer times in collegiate rowers. Presented at Texas American College of Sports Medicine conference. Austin, Texas, March 1-2, 2012.
95. Tammareddi, K., **Boolani, A.,** Jacobson, B. Effects of Maximal Exertion on Selective Attention and Processing Speed in College Age Males. Presented at South Eastern American College of Sports Medicine conference, Jacksonville, Florida, February 9-11, 2012.
96. **Boolani, A.,** Jacobson, B. Effect of Power Assisted Concentric Exercise on Muscular Endurance in Frail Community Dwelling Elderly. Presented at TAPHERD conference, Murfreesboro, TN. November 6-8, 2011. Oral presentation.
97. Frazier, M.\*, **Boolani, A.,** Kungu, K. Determining effectiveness of a less invasive skinfold body fat measurement technique. Presented at TAPHERD conference, Murfreesboro, TN. November 6-8, 2011.
98. Jefferies, K.\*, **Boolani, A.,** Kungu, K. Performance Testing: The Effect of Pelvic Tilt and Q-Angle on the Broad Jump, Vertical Jump and the 40 Yard Dash in NCAA Division I Athletes. Presented at TAPHERD conference, Murfreesboro, TN, November 6-8, 2011.
99. Rumph, T.\*, Kungu, K., **Boolani, A.** Correlation between likability, credibility, expertise, trustworthiness, attractiveness, familiarity, Q-rating and income in professional athletes. Presented at TAPHERD conference, Murfreesboro, TN, November 6-8, 2011.
100. **Boolani, A.,** Warren, A. Effects of Sexual Maturation Status on Leg Length, Q-Angle and BMI in Young Adults. Presented at Oklahoma Board of Regents Research Day, Lawton, Oklahoma. November 4, 2011
101. Hanzlicek, A\*., **Boolani, A.,** Jacobson, BH. Evaluating the consistency of coaches' perception of individual female basketball players' talent. Presented at Annual Conference of Central States American College of Sports Medicine, Overland Park, Kansas, October 20-21, 2011.
102. **Boolani, A.,** Warren, A. Gender differences in Leg length, Q-Angle, Navicular Drop and Tibial Torsion of College Age Subjects. Presented at Annual Conference of Central States American College of Sports Medicine, Overland Park, Kansas, October 20-21, 2011.
103. Burke, B\*, **Boolani, A.,** Wrye, B., Jones, T. Role of household income in GPA and semesters of college attended by African American students at HBCUs. Presented at Annual Conference of Central States American College of Sports Medicine, Overland Park, Kansas, October 20-21, 2011.
104. Rozsel, W.\*, Crane, J., **Boolani, A.** Correlation between chest girth, wingspan and 1-RM on the bench press in college age males. Presented at Annual Conference of Central States American College of Sports Medicine, October 20-21, 2011.

105. Hamidi, F.\*, **Boolani, A.**, Jacobson, B., Edwards, S., Warren, A., Smith, D., Shriver, L. Assessing changes in bench press strength in college age males after training without the benefit of vision. Presented at Annual Conference of Central States American College of Sports Medicine, Overland Park, Kansas, October 20-21, 2011.
106. Jacobson BH, Smith, DB, Fronterhouse J\*, Kline C\*, **Boolani A.** Concentric Power Assistive Exercise on Muscular Strength in Elderly Participants. Presented at Annual Conference of Central States American College of Sports Medicine, Columbia, MO, November 5-6 2009.
107. Jacobson, Bert H., **Boolani, A.**, Archarya. Individually prescribed sleep surfaces based on sleeping positions improve back pain and sleep quality. Presented at Annual Conference of Central States American College of Sports Medicine. Columbia, MO, November 5-6, 2009.
108. Jacobson, B. H., Smith, D., Fronterhouse, J., Kline, C., & Boolani, A. (2011). Effect of Power-Assisted Isokinetic Activity in Reducing Sarcopenia in Elderly Men. *The Journal of Strength & Conditioning Research*, 25, S51.
109. Jacobson, Bert H., **Boolani, A.**, Archarya. Individually prescribed sleep surfaces based on sleeping positions improve back pain and sleep quality. Presented to representatives of Bob Mills Inc. following completion of funded research. Oklahoma City, OK. Aug. 8, 2009.
110. Smith D., **Boolani, A.**, Guerrero J., Blood Lactate changes in Collegiate Wrestlers Over the Course of a Season. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008)
111. Everett, K., Smith, D, Jacobson, B., Fedick, J., Kline, C., Andrews, M., **Boolani, A.**, Warren, A., O'Brien, M. The Effect of Energy Patches on Substrate Utilization in College Female Cross-Country Runners. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008)
112. Andrews, M., Smith, D., Warren, A., Jacobson, B., O'Brien, M., Kline, C., **Boolani, A.**, Fedick, J. Comparison of RPE, RER, HR, and Time to Exhaustion between Collegiate Male and Female Cross Country Runners during Graded Exercise Testing. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008)
113. Smith D., Kline, C., **Boolani, A.**, Changes in Respiratory Exchange Ratio during Exercise using a Weight Loss Patch. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008)
114. Huminekova, L., Smith, D. Boldrin, E., **Boolani, A.** (2007) Body-composition and hydration status changes in high-school wrestlers over the course of a season. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008)
115. Smith, D., Warren, A., Guerrero, J., **Boolani, A.**, Kline, C., Fedick, J. (2007) Short-term affects of creatine and HMB on peak-torque. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008)
116. Kline, C., Smith, D., O'Brien, M., Warren, A., Jacobson, B., **Boolani, A.**, Fedick, J., and Guerrero, J. (2008) Effects of short-term HMB supplementation on Quadriceps peak torque following an over-reaching training protocol. Presented at Annual Conference of Central States American College of Sports Medicine. Kansas City, Missouri, 2008.
117. Smith, D., Warren, A., O'Brien, M., Rossi, S., Buford, T., Herrill, M., Fedick, J., Kline, C., **Boolani, A.**, (2008) A comparison of two pre-season measures of body weight, peak torque and percent decline in college wrestlers. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri (2008).
118. **Boolani, A.**, Smith, D., Warren, A., Guerrero, J., Skeletal Abnormalities, Maturation Status and Socio-economic Status and their Effects on Vertical Jump and Muscle Recruitment. Presented at Annual Conference of Central States American College of Sports Medicine, Springfield, MO (2007).
119. Kline, C., Smith, D., O'Brien, M., Warren, A., **Boolani, A.**, Fedick, J., Guerrero, J. Effects of Short-term HMB supplementation on quadriceps peak torque following an over-reaching training protocol. Presented at Annual Conference of Central States American College of Sports Medicine, Springfield, MO (2007).
120. Smith, D., Warren, A., O'Brien, M., Guerrero, J., Fedick, J., Kline, C., **Boolani, A.** A comparison of pre-season and mid-season peak torque and percent decline in college wrestlers. Presented at Annual Conference of Central States American College of Sports Medicine, Springfield, MO (2007).

121. Fiddler, R., Smith, D., Jacobson, B., Fedick, J., Kline, C., Guerrero, J., **Boolani, A.** The effect of energy patches on substrate utilization in cross country runners. Presented at Annual Conference of Central States American College of Sports Medicine, Springfield, MO (2007).
122. **Boolani, A.**, Smith, D., Warren, A., Rossi, T., Bufford, M., O'Brien, M. Body Composition changes in collegiate wrestlers over the course of a season. Presented at 18<sup>th</sup> Annual Research Symposium Oklahoma State University. (2007).
123. **Boolani, A.**, Smith, D., Warren, A., Rossi, S., Buford, T., O'Brien, M. (2006) Body Composition Changes in Wrestlers Over the Course of a Season. Presented at Annual Conference of Central States American College of Sports Medicine, Kansas City, Missouri, 2006.

D. Peer-Reviewed Presentations (under review)

E. Local/Regional Presentations

1. Oloruntoba, O., Aggad, R., Soladoye, E., Merianos, A. L., Bergeron, C. D., **Boolani, A.**, Gregory, K. A., & Smith, M. L. (2023). Musculoskeletal pain and depression among healthcare workers providing direct patient care. Presented at the Texas A&M University Student Research Week, March 21, 2023, College Station, TX.
2. Wagh, A., **Boolani, A.** Does increase in peripheral mitochondrial activity increase feelings of energy or decrease feelings of fatigue? Oral presentation at Clarkson University Research & Project Showcase (RAPS), August, 2021
3. Rodriguez, J., **Boolani, A.** Effects of acute exercise on cognitive performance Oral presentation at Clarkson University Research & Project Showcase (RAPS), August, 2021
4. Locke, E., **Boolani, A.** Determination of Rurality and Associated Factors Affecting Patient Outcomes and Care with COVID-19 Diagnosis. Oral presentation at Clarkson University Research & Project Showcase (RAPS), August, 2021
5. McCarthy, R., **Boolani, A.** Can Auditory Cues Suppress or Enhance Biological Mood Enhancing Response to Exercise? Oral presentation at Clarkson University Research & Project Showcase (RAPS), August, 2021
6. McCarthy, R., Barrios, N., **Boolani, A.** Association between grit and physical activity and diet quality in highly active college students. Oral presentation at Clarkson University Research & Project Showcase (RAPS), April, 2021 (undergraduate oral presentation award recipient)
7. Barrios, N., **Boolani, A.** Association between trait energy and fatigue and aquatic functional assessments: An exploratory study. Oral presentation at Clarkson University Research & Project Showcase (RAPS), April, 2021
8. Locke, E., **Boolani, A.** Determinants of Lifestyle and Behavioral Habits in members of the Military During the COVID-19 Pandemic Based on Personality. Oral presentation at Clarkson University Research & Project Showcase (RAPS), April, 2021
9. Teska, D, Hoover, C., **Boolani, A.** Predicting POMS Tension and Depression with Posture using Machine Learning \_Poster presentation at Clarkson University Summer Research & Project Showcase (RAPS), July, 2020 (graduate poster award recipient)
10. Barrios, N., Allen, A., Sames, C., **Boolani, A.** Determining factors that lead to acute decline in moods for patients participating in a community based exercise program. Oral presentation at Clarkson University Summer Research & Project Showcase (RAPS), July, 2020. (“Undergraduate Lightning Talk” for Human Behavior and Education award recipient)
11. McCarthy, R., Martin, J, Cortes, N., Caswell, C., **Boolani, A.** The role of trait mental and physical energy and fatigue in predicting physical activity during the COVID-19 pandemic. Poster session at \_Clarkson University Summer Research & Project Showcase (RAPS), July, 2020

12. Cahill, J., Rogers, J., **Boolani, A.** Does being a woman in a male dominated school affect you psychologically? Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
13. Senarathna, S, Sathiyakumar, T., Yager, C., Taladay, P, Li, R., Sur, S., Mondal, S., **Boolani, A.** Multivariate study to determine the postural correlates of trait mental and physical energy and fatigue. Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
14. Stark, M., Martin, R., **Boolani, A.** The manifestation of anxiety in gait. Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
15. Mahoney, G., Towler, C., **Boolani, A.** Effects of feelings of fatigue and energy on gait. Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
16. Alvarez, J., Teymouri, S., LaFay, V., **Boolani, A.** The manifestation of depression in gait. Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
17. Robertson, B., Lewis, S., Vashishtha, A., Yager, C., Taladay, P., Mondal, S., **Boolani, A.** Gait associations with trait moods: Energy and Fatigue. Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
18. Yager, C., Bradley, D., Caruso, J., **Boolani, A.** The manifestation of anger in walking gait. Poster session at Clarkson University Spring Research & Project Showcase (RAPS), April, 2019.
19. Avolio, A.\*\*, **Boolani, A.**, Martin, R., Goodwin, A.\*\*, Fulk, G. (2018, September). Tasks Requiring Single Stimulus and Working Memory Predict Different Aspects of Gait and Posture. Poster session presented at 8<sup>th</sup> Annual New York Six Undergraduate Research Conference, Canton, NY.
20. Weston, P.\*\*, **Boolani, A.**, Manieere, M. (2018, September). A multivariate study predicting trait mental and physical fatigue and energy. Poster session presented at 8th Annual New York Six Undergraduate Research Conference, Canton, NY.
21. Fuller, D.\* , **Boolani, A.**, Gumpricht, E., Grobe, S.\*\* , Mondal, S., Darie. C. Acute Effect Differences Between Synthetic and Naturally-Sourced Caffeine. Oral presentation at the Clarkson University Summer Research & Project Showcase (RAPS), July 2018.- Winner of oral presentation
22. Fuller, D.\* , **Boolani, A.**, Moghaddam, M.\* , Martin, R., Mondal, S. Statistical Methods for Low-N Non-Normal Intergroup Strength Data. Poster presentation at the Clarkson University Summer Research and Project Showcase (RAPS), July 2018.
23. Avolio, A.\*\* , Goodwin, A.\*\* , Nsiah, R.\*\* , Parrish, T.\*\* , Fuller, D.\* , **Boolani, A.** (2018, July). *The Relationship Between Sleep Quality, Quantity, and Gait.* Poster session presented at the University at Buffalo's 24<sup>th</sup> Annual Undergraduate Research Conference, Niagara Falls, NY.
24. Avolio, A.\*\* , Goodwin, A.\*\* , Nsiah, R.\*\* , Parrish, T.\*\* , Fuller, D.\* , **Boolani, A.** (2018, July). *The Relationship Between Sleep Quality, Quantity, and Gait.* Poster session presented at Clarkson University's Summer Research and Project Showcase, Potsdam, NY.
25. Avolio, A.\*\* , Goodwin, A., Fulk, G., Martin, R., **Boolani, A.** (2018, April). *Impact of Mood After Cognitive Fatigue on Gait in Older Adults.* Poster session presented at Experimental Biology 2018, San Diego, CA.
26. Avolio, A.\*\* , Goodwin, A.\*\* , Fulk, G., Martin, R., **Boolani, A.** (2018, April). *Impact of Mood After Cognitive Fatigue on Gait in Older Adults.* Poster session presented at Clarkson University's Spring Research and Project Showcase, Potsdam, NY.
27. Avolio, A.\*\* , Goodwin, A.\*\* , **Boolani, A.** (2017, July). *The Effect of Cognitive Fatigue, Cocoa, and Exercise on Balance as Measured by the CTSIB: A pilot study.* Poster session presented at Clarkson University's 20<sup>th</sup> Annual Summer Undergraduate Research Experiences Conference, Potsdam, NY.
28. Goodwin, A.\*\* , Avolio, A.\*\* , Nsiah, R.\*\* , Parrish, T.\*\* , Fuller, D.\* , **Boolani, A.** (2018, July). *The Relationship Between Sleep Quality and Quantity and Postural Control.* Poster session presented at Clarkson University's Summer Research and Project Showcase, Potsdam, NY.

29. Goodwin, A.\*\*, Avolio, A.\*\*, Nsiah, R.\*\*, Parrish, T.\*\*, Fuller, D.\*\*, **Boolani, A.** (2018, July). *The Relationship Between Sleep Quality and Quantity and Postural Control*. Poster session presented at the University at Buffalo's 24<sup>th</sup> Annual Undergraduate Research Conference, Niagara Falls, NY.
30. Nsiah, R. \*\*, Avolio, A. \*\*, Goodwin, A. \*\*, Parrish, T. \*\*, **Boolani, A.** (2018, July). *The Relationship Between Depression and Gait*. Poster session presented at Clarkson University's Summer Research and Project Showcase, Potsdam, NY.
31. Nsiah, R. \*\*, Avolio, A. \*\*, Goodwin, A. \*\*, Parrish, T. \*\*, **Boolani, A.** (2018, July). *The Relationship Between Depression and Gait*. Poster session presented at the University at Buffalo's 24<sup>th</sup> Annual Undergraduate Research Conference, Niagara Falls, NY.
32. Parrish, T. \*\*, Avolio, A. \*\*, Goodwin, A. \*\*, Nsiah, R. \*\*, **Boolani, A.** (2018, July). *The Relationship Between Non-Clinical Anxiety and Gait*. Poster session presented at Clarkson University's Summer Research and Project Showcase, Potsdam, NY.
33. Parrish, T. \*\*, Avolio, A. \*\*, Goodwin, A. \*\*, Nsiah, R. \*\*, **Boolani, A.** (2018, July). *The Relationship Between Non-Clinical Anxiety and Gait*. Poster session presented at the University at Buffalo's 24<sup>th</sup> Annual Undergraduate Research Conference, Niagara Falls, NY.
34. Rogers, E. \*\*, Goodwin, A. \*\*, Avolio, A. \*\*, Fulk, G., Martin, R., **Boolani, A.** Relationship between higher and lower level serial subtraction task performance and gait during a 6-minute walk test. Presented at the Clarkson University Spring Research & Project Showcase (RAPS), April 2018
35. Goodwin, A. \*\*, Avolio, A. \*\*, Martin, R., **Boolani, A.** The impact of cognitive fatigue on aerobic output in a 6-minute walk test among older adults. Presented at the Clarkson University Spring Research & Project Showcase (RAPS), April 2018
36. Avolio, A. \*\*, Goodwin, A. \*\*, Fulk, G., Martin, R., **Boolani, A.** Impact of mood after cognitive fatigue on gait in older adults. Presented at the Clarkson University Spring Research & Project Showcase (RAPS), April 2018
37. Vaccaro, R., \*\*, **Boolani, A.**, Goodwin, A. \*\*, Avolio, A. \*\* (2018, April). *Relationship Between Motivation to Perform Physical Tasks and Gait*. Poster session presented at Clarkson University's Spring Research and Project Showcase, Potsdam, NY.
38. Avolio, A. \*\*, Goodwin, A. \*\*, **Boolani, A.** The effect of cognitive fatigue, cocoa and exercise on balance as measured by the CTSIB: A pilot study. Presented at SURE conference, 2017.
39. Bronson, H. \*\*, **Boolani, A.** Impact of acute cognitive fatigue on gait in older adults. Presented at SURE conference 2016.
40. Weber, B. \*\*, **Boolani, A.** Impact of ingesting cocoa on acute cognitive fatigue in older adults. Presented at SURE conference 2016.
41. Grobe, S. \*\*, **Boolani, A.** Impact of acute cognitive fatigue on gait and postural sway in older adults. Presented at SURE conference 2016.
42. Arita, G. \*\*, Grobe, S. \*\*, **Boolani, A.** Impact of cognitive fatigue on gait and sway in older adults: Review. Presented at SURE conference 2015.
43. Kemp, H\*\*, Guerrero, J., **Boolani, A.**, Troglin, K. \*\* Familial Determinants of Sedentary Behaviors that Contribute to Childhood Obesity. Texas A&M University Research Week Symposium, College Station, TX, March 19-23, 2012.
44. Young, J. \*\*, **Boolani, A.** Effects of music on jump shooting on AAU high school basketball players. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
45. Mobley, M. \*\*, **Boolani, A.** Effects of music on sub-maximal VO<sub>2</sub>Max in college age males and females. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
46. Butler, E. \*\*, **Boolani, A.** Effects of music, positive and negative reinforcement on 1 mile run times in college age males and females. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.

47. Gray, K. \*\*, **Boolani, A.** Correlation between vertical jump and jump shooting from 15 feet and 22 feet in male and female NAIA collegiate basketball players. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
48. James, A. \*\*, **Boolani, A.** Effects of corrective lenses on jump shooting from 15 feet and 22 feet in male and female NAIA collegiate basketball players. Submitted to Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
49. Jackson, T. \*\*, **Boolani, A.** Effects of music on number of homeruns hit by NAIA collegiate baseball players. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
50. Adair, J. \*\*, **Boolani, A.** Determining the relationship between body weight, squat, deadlift, height and 1000m sprint times in collegiate rowers. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
51. Burke, B. \*\*, Vann, R. \*\*, Jackson, T. \*\*, Rouseville, K., **Boolani, A.** Relationship between dynamic hip stability, BMI and age. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011. (1<sup>st</sup> place in category)
52. Roszel, W. \*\*, **Boolani, A.** Relationship between height, weight, wingspan, rowing and kayaking times in senior kayakers and rowers. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011 (1<sup>st</sup> place in category)
53. Davis, K. \*\*, Pena, S. \*\*, Tibshraeny, T. \*\*, Gomez, K. \*\*, **Boolani, A.** Relationship between grip strength, BMI, body composition and age. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011. (3<sup>rd</sup> place in category)
54. Roszel, W. \*\*, Fox, J. \*\*, Reed, A. \*\*, St. John, H. \*\*, McArthur, J. \*\*, **Boolani, A.** Relationship between aging, hamstring flexibility, BMI and body composition Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
55. Bonsall, M. \*\*, Hamidi, F. \*\*, Pitts, M. \*\*, Carroll, R. \*\*, **Boolani, A.** Gender differences in muscular endurance, grip strength, BMI, body composition, flexibility and reaction time by age. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011. (2<sup>nd</sup> place in category)
56. Howard, T. \*\*, James, A. \*\*, Lane, C. \*\*, Busby, C. \*\*, Castleberry, L. \*\*, **Boolani, A.** Correlation between age, maximal pushups and maximal situps. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
57. Roszel, W. \*\*, Kamali, D. \*\*, Hamidi, F. \*\*, Short, S. \*\*, James, A. \*\*, **Boolani, A.** Differences in paddle stroke for collegiate rowers and kayakers. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011. (2<sup>nd</sup> place in category)
58. Goldwire, T. \*\*, Cross, V. \*\*, Smith, N. \*\*, Caldwell, D. \*\*, Busby, C. \*\*, **Boolani, A.** Correlation between shark skills test, arm-swing and no arm swing 2-leg and 1-leg vertical jump. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
59. Davis, K. \*\*, Lavelle, L. \*\*, Sheppard, J. \*\*, Gomez, K. \*\*, Marshall, M. \*\*, Eichenauer, M. \*\*, **Boolani, A.** Differences in 10 yard and 40 yard run times using auditory and visual cues. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011.
60. Pena, S. \*\*, Howard, T. \*\*, Reed, A. \*\*, Harjo, D. \*\*, St. John, H. \*\*, Finley, N. \*\*, **Boolani, A.** Correlation between kicking distance and kicking accuracy in female NAIA collegiate soccer players. Presented at Oklahoma City University 12<sup>th</sup> Annual Undergraduate Research Day, December 2, 2011. (3<sup>rd</sup> place in category)
61. **Boolani, A.**, Warren, A., Jacobson, B., Smith, D. Effects of Leg Length and Q-Angle on Vertical Jump. Presented at 19<sup>th</sup> Annual Research Symposium Oklahoma State University. (2008)

#### F. Webinars

February, 2024

1. American Pakistan Foundation- [Invited webinar on improving moods during the COVID-19 pandemic](#)- 2020

## **IX. Additional Credentialed Training**

### **Institution**

#### **Computer Science**

Duke University  
 The Hong Kong University of Science and Technology  
 University of Michigan  
 University of Colorado Boulder  
 Columbia University  
 Rice University  
 Politecnico di Milano  
 University of Washington  
 University of Colorado System  
 LearnQuest  
 Meta  
 Univeristy of London and & Goldsmiths  
 Codio  
 Codio  
  
 University of Pennsylvania  
 University of Colorado Boulder  
 Princeton University  
 University of Illinois at Urbana-Champaign  
 University of Illinois at Urbana-Champaign  
 University of Michigan  
 Intel  
  
 University of London  
 University of Illinois at Urbana-Champaign  
 LearnQuest  
 Duke University  
 Google Cloud  
 Amazon Web Services  
 Google Cloud  
 University of Glasgow  
 University of Minnesota  
 Google Cloud  
 Universidad Nacional Autonoma de Mexico  
 Yale  
 University of Melbourne & The Chinese University of  
 Hong Kong  
 EIT Digital  
 AWS and NVIDIA  
 EIT Digital  
 Meta  
 University of Washington  
 Northwestern University  
 Columbia University  
 University of Pennsylvania

### **Credential**

Object Oriented Programming in Java Specialization  
 Software Engineering Specialization  
 Design Computer: 3D Modeling in Rhinoceros with python/Rhinoscript  
 Mind and Machine Specialization  
 First Principles of Computer Vision Specialization  
 Fundamentals of Computing Specialization  
 Artificial Intelligence: An Overview  
 Autonomous AI for Industry Specialization  
 C# Programming for Unity Game Development Specialization  
 Ethics in the Age of AI Specialization  
 Meta Database Engineer Professional Certificate  
 Object Oriented Programming Specialization  
 Select Topics in Python Specialization  
 Advanced Django: Mastering Django and Django Rest Framework  
 Specialization  
 Computational Thinking for Problem Solving  
 Deep Learning Applications for Computer Vision  
 Algorithms, Parts I and II (2 different specializations)  
 Deep Learning for Healthcare Specialization  
 Cloud Computer Specialization  
 Django for Everybody Specialization  
 Intermediate Intel Distribution of OpenVINO toolkit for Deep Learning  
 Applications  
 Object Oriented Programming Specialization  
 Accelerated Computer Science Fundamentals Specialization  
 AI for Scientific Research Specialization  
 Building Cloud Computing Solutions at Scale Specialization  
 Developing APIs with Google Cloud's Apigee API Platform Specialization  
 DevOps on AWS Specialization  
 Cloud Network Engineer Professional Certificate  
 Informed Clinical Decision Making using Deep Learning  
 Recommender Systems Specialization  
 Advanced Machine Learning on Google Cloud Specialization  
 Database systems Specialization  
 Introduction to Medical Software  
 Solving Algorithms for Discrete Optimization  
  
 I/O-efficient algorithms  
 Hands-on Machine Learning with AWS and NVIDIA  
 Geometric Algorithms  
 Meta AR Developer Professional Certification  
 Programming Languages, Part A, B and C (3 different specializations)  
 Modern Robotics: Mechanics, Planning, and Control Specialization  
 Decision Making and Reinforcement Learning  
 Robotics Specialization



<i>University of Michigan</i>	Web Applications for Everybody Specialization
<i>University of Alberta</i>	Problem Solving, Python Programming and Video Games
<i>University of Michigan</i>	Extended Reality for Everybody Specialization
<i>NVIDIA</i>	Introduction to AI in the Data Center
<i>University of California, Santa Cruz</i>	Coding for Everyone: C and C++ Specialization
<i>Google Cloud</i>	Learning Tensorflow
<i>University of California, Davis</i>	Computational Social Science Specialization
<i>Google Cloud</i>	Machine Learning Engineer Professional Certificate
<i>Edge Impulse</i>	Introduction to Embedded Machine Learning
<i>Alberta Machine Intelligence Institute</i>	Machine Learning: Algorithms in the Real-World Specialization
<i>Edge Impulse</i>	Computer Vision with Embedded Machine Learning
<i>The University of Melbourne</i>	Discrete Optimization
<i>Meta</i>	Meta Back-End Developer Professional Certificate
<i>Google</i>	Google IT Automation with Python Professional Certificate
<i>Duke University</i>	Object Oriented Programming in Java Specialization
<i>University of Pennsylvania</i>	Introduction to Programming with Python and Java Specialization
<i>University of Michigan</i>	Python for Everybody Specialization
<i>Google Cloud</i>	Machine Learning Engineer Professional Certification
<i>University of California San Diego</i>	Data Structures and Algorithms Specialization
<i>University of Alberta &amp; Alberta Machine Intelligence Institute</i>	Reinforcement Learning Specialization
<i>Johns Hopkins University</i>	GPU Programming Specialization
<i>LearnQuest</i>	Python Scripting for DevOps Specialization
<i>University of California, Irvine</i>	An Introduction to Programming the Internet of Things (IOT) Specialization
<i>Imperial College London</i>	TensorFlow 2 for Deep Learning Specialization
<i>Ecole Polytechnique Federale de Lausanne</i>	Digital Signal Processing Specialization
<i>LearnQuest</i>	AI for Scientific Research Specialization
<i>Rice University</i>	Introduction to Scripting in Python Specialization
<i>University of Michigan</i>	Python 3 Programming Specialization
<i>Meta</i>	Meta Front-End Developer Professional Certificate
<i>Google</i>	Google Cybersecurity Professional Certificate
<i>University of Minnesota</i>	Software Testing and Automation Specialization
<i>Microsoft</i>	Microsoft Azure Data Engineering Associate (DP-203) Specialization
<i>Google</i>	Attention Mechanism
<i>Google</i>	Introduction to Generative AI
<i>Google</i>	Introduction to Large Language Models
<i>Google</i>	Transformer Models and BERT Models
<i>Google</i>	Create Image Captioning Models
<b>Data Science/Machine Learning</b>	
<i>Johns Hopkins University</i>	Data Literacy Specialization
<i>University of Michigan</i>	Applied Data Science with Python Specialization
<i>Harvard University X</i>	Professional Certificate in Data Science and Machine Learning
<i>Databricks</i>	Introduction to Computational Statistics for Data Scientists Specialization
<i>University of Pennsylvania</i>	A crash Course in Causality: Inferring Causal Effects from Observational Data
<i>University of Washington</i>	Machine Learning Specialization
<i>University of Colorado Boulder</i>	Data Science Foundations: Data Structures and Algorithms Specialization
<i>University of Colorado Boulder</i>	Machine Learning: Theory and Hands on Practice with Python Specialization
<i>University of Michigan</i>	Sports Performance Analytics Specialization
<i>The University of Chicago</i>	Machine Learning: Concepts and Applications
<i>Johns Hopkins University</i>	Data Science: Statistics and Machine Learning Specialization

Google	Google Data Analytics Professional Certificate
Google	Google Advanced Data Analytics Professional Certificate
Eindhoven University of Technology	Improving your statistical inferences
University of Michigan	PostgreSQL for Everybody Specialization
University of Colorado Boulder	Data Mining Foundations and Practice Specialization
Google Cloud	Hands-on Foundations for Data Science and Machine Learning with Google Cloud Labs Specialization
University of Colorado Boulder	Data Science Foundation: Statistical Inference Specialization
Duke University	Introduction to Machine Learning
University of Colorado Boulder	Vital Skills for Data Science Specialization
University of Colorado Systems	Clinical Data Science Specialization
Eindhoven University of Technology	Improving Your Statistical Questions
University of Washington	Social Media Data Analytics
University of Washington	Data Science at Scale Specialization
New York University	Information Visualization Specialization
Carnegie Mellon University	Statistical Thermodynamics: Molecules to Machines
Columbia University	Causal Inference 1 and 2
Johns Hopkins University	Health Informatics Specialization
University of Michigan	Total Data Quality Specialization
University of California San Diego	Interaction Design Specialization
University of California San Diego	Bioinformatics Specialization
University of California Davis	Data Visualization with Tableau Specialization
University of Michigan	Applied Data Science with Python Specialization
Imperial College London	Mathematics for Machine Learning Specialization
University of California, Davis	Learn SQL Basics for Data Science Specialization
Duke University	Python, Bash, and SQL Essentials for Data Engineering Specialization
University of California, Santa Cruz	Bayesian Statistics Specialization
University of California, San Diego	Python Data Products for Predictive Analytics Specialization
University of Illinois at Urbana-Champaign	Data Mining Specialization
University of California, San Diego	Big Data Specialization
Johns Hopkins University	Algebra: Elementary to Advanced- Equations & Inequalities
University of Michigan	Statistics with Python Specialization
University of California, Davis	Geographic Information Systems (GIS) Specialization
Howard University	Linear Algebra for Data Science Using Python Specialization
University of Colorado Boulder	Expressway Data Science: Essential Math Specialization
University of Colorado Boulder	Databases for Data Scientists Specialization
<b>Behavioral Economics/Behavioral Science</b>	
University of Michigan	Model Thinking
University of Pennsylvania	Foundations of Positive Psychology Specialization
University of Pennsylvania	Removing Barriers to Change
Copenhagen Business School	An Introduction to Consumer Neuroscience & Neuroimaging
The University of Edinburgh	Intellectual Humility: Theory
University of Pennsylvania	Network Dynamics of Social Behavior
Johns Hopkins University	Systems Thinking in Public Health
Duke University	Behavioral Finance
University of California at San Diego	Interaction Design Specialization
Wesleyan University	Social Psychology
University of Pennsylvania	Gamification
University College London	Digital Health Specialization
Imperial College London	Creative Thinking: Techniques and Tools for Success
Yale University	Moralities of Everyday Life

<i>Yale University</i>	Narrative Economics
<i>The University of Edinburgh</i>	Know Thyself- The Value and Limits of Self-Knowledge: The Unconscious
<i>Eramus University Rotterdam</i>	Thought Experiments: An introduction to philosophy
<i>University of Cape Town and Oxfam</i>	Research for Impact
<i>Eramus University Rotterdam</i>	Serious Gaming
<i>The University of Tokyo</i>	Welcome to Game Theory
<i>University of Pennsylvania</i>	Philosophy of Science
<i>Yale University</i>	Health Behavior Change: From Evidence to Action
<i>Yale University</i>	Journey of the Universe: A story of our times specialization
<i>Dartmouth College</i>	Question Reality: Science, philosophy, a search for meaning Specialization
<i>The University of Edinburgh</i>	Philosophy and the Science: Introduction to Philosophy of Cognitive Science
<i>University of Pennsylvania</i>	Microeconomics: When Markets Fail
<i>Erasmus University Rotterdam</i>	Introduction to Economic Theories
<i>Duke University</i>	Visual Perception and the Brain
<i>University of Michigan</i>	Mindware: Critical Thinking for the Information Age
<i>Yale University</i>	The Nature of Genius
<i>The University of Edinburgh</i>	Introduction to Philosophy
<i>University of Michigan</i>	User Experience Research and Design Specialization
<i>University of Pennsylvania and UNICEF</i>	Social Norms, Social Change I & II (2 courses)
<i>University of Chicago</i>	Economics for Everyone (Micro and Macro- 2 courses)
<b><i>Sports Sciences Specializations</i></b>	
<i>National Strength and Conditioning Association</i>	Certified Strength and Conditioning Coach (CSCS)
<i>National Academy of Sports Medicine</i>	Corrective Exercise Specialist
<i>National Academy of Sports Medicine</i>	Performance Exercise Specialist
<i>National Academy of Sports Medicine</i>	Certified Nutrition Coach
<i>University of Florida</i>	Science of Training Youth Athletes 1
<i>University of Florida</i>	Science of Training Youth Athletes 2
<i>Duke University</i>	Sports and Society
<b><i>Contemporary Expertise- Continued Science Training:</i></b>	
<i>Duke University</i>	Human Physiology
<i>University of Michigan</i>	Sleep: Neurobiology, Medicine, and Society
<i>Duke University</i>	The Brain and Space
<i>Ichan School of Medicine</i>	Systems Biology and Biotechnology Specialization
<i>Johns Hopkins University</i>	Genomic Data Science Specialization
<i>Johns Hopkins University</i>	Neuroscience and Neuroimaging Specialization
<i>University of Washington</i>	Computational Neuroscience
<i>Peking University</i>	Advanced Neurobiology I and II
<i>Rice University</i>	Fundamentals of Immunology Specialization
<i>University of Geneva</i>	Precision Medicine
<i>Duke University</i>	Medical Neuroscience
<i>Johns Hopkins University</i>	Introduction to Systematic Review and Meta-analysis
<i>Johns Hopkins University</i>	Design and Interpretation of Clinical Trials
<i>Johns Hopkins University</i>	Foundations of Health Equity Research
<i>University of Michigan</i>	Translational Science Specialization
<i>Imperial College London</i>	Immunology: The immune system and its failures
<i>Johns Hopkins University</i>	Clinical Trials Operations Specialization
<i>University of Minnesota</i>	Introduction to Human Behavioral Genetics
<i>University of Colorado at Boulder &amp; University of California at San Diego</i>	Gut Check: Exploring Your Microbiome
<i>University of Chicago</i>	Understanding the Brain: The Neurobiology of Everyday Life

*The University of Sydney*  
*Hebrew University of Jerusalem*

**Pedagogical Training**

*Deep Teaching Solutions*  
*University of Michigan*  
*Johns Hopkins University*  
*Johns Hopkins University*  
*Harvard University*  
*University of Michigan*  
*HSE University*  
*University of Illinois at Urbana-Champaign*  
*University of Illinois at Urbana-Champaign*  
*University of Illinois at Urbana-Champaign*  
  
*University of Illinois at Urbana-Champaign*  
  
*University of Illinois at Urbana-Champaign*  
*University of Michigan*  
*University of Illinois at Urbana-Champaign*

*EdX*

*Deep Teaching Solutions*

*Clarkson University*

*American Physical Therapy Association*

*John Hopkins University*

*Oklahoma City University*

**Business Training**

*Dartmouth College*  
*Johns Hopkins University*  
*University of Pennsylvania*  
*University of Pennsylvania*  
*University of Michigan*  
*University of Colorado Boulder*  
*University of Illinois at Urbana*  
*University of Illinois at Urbana*  
*New York University*  
*University of Maryland, College Park*  
*Duke University*  
*Yale University*  
*Northwestern University*  
*University of London*  
*Institute for the Future*  
*Google*  
*Ecole Polytechnique & HEC Paris*  
*Google*  
*University of Pennsylvania*  
*IE Business School*  
*Northwestern University*  
*Columbia University*  
*Duke University*

Positive Psychiatry and Mental Health  
 Synapses, Neurons and Brains

Uncommon Sense Teaching  
 Instructional Methods in Health Professions Education  
 Foundations of Health Equity Research  
 Design and Interpretation of Clinical Trials  
 How to learn online  
 Leading for Equity, Diversity, and Inclusion in Higher Education  
 Creating a Personalized Learning Environment in the Classroom  
 New Learning: Principles and Patterns of Pedagogy  
 Negotiating Learner Differences: Towards Productive Diversity in Learning  
 Multimodal Literacies: Communication and Learning in the Era of Digital Media  
 e-Learning Ecologies: Innovative Approaches to Teaching and Learning for the Digital Age  
 Assessment for Learning  
 Instructional Methods in Health Professions Education  
 Ubiquitous Learning and Instructional Technologies

How to teach online

Learning How to Learn: Powerful mental tools to help you master tough subjects

Reframing Instruction Success Everywhere (RISE)- Basics of Online course

Design and Delivery workshop

New Faculty Workshop

University Teaching 101

Teaching Portfolio- Excellence in Teaching and Learning

Strategic Leadership: Impact, Change, and Decision-Making Specialization

Leadership: An Introduction Specialization

Business Strategies for a Better World Specialization

Business Foundations Specialization

Foundational Finance for Strategic Decision-Making Specialization

Neuroscience of Leadership: Leading with your brain Specialization

Strategic Leadership and Management Specialization

Business Value and Project Management Specialization

Machine Learning and Reinforcement Learning in Finance Specialization

Product Ideation, Design, and Management Specialization

Decentralized Finance: The Future of Finance Specialization

Financial Markets

Scaling Operations: Linking Strategy and Execution

Managing the Company of the Future

Futures Thinking Specialization

Google Business Intelligence Professional Certificate

Creating and Developing a Tech Startup

Google Project Management: Professional Certification

Business Foundations Specialization

The Journey to Diversity, Inclusion, and Belonging Specialization

Organizational Leadership Specialization

Financial Engineering and Risk Management Specialization

Entrepreneurial Finance: Strategy and Innovation Specialization

<i>University of Pennsylvania</i>	Intellectual Property Law Specialization
<i>EIT Digital</i>	Value Creation through Innovation Specialization
<i>Copenhagen Business School</i>	Strategic Management and Innovation Specialization
<i>Case Western Reserve University</i>	Inspired Leadership Specialization
<i>IE Business School</i>	Marketing Strategy Specialization
<i>Johns Hopkins University</i>	Principles of Management
<i>University of Illinois at Urbana</i>	Financial Analysis- Skills for Success Specialization
<i>University of Illinois at Urbana</i>	Mergers and Acquisitions Specialization
<i>The University of New South Wales Sydney</i>	Designing the Future of Work
<i>University of Michigan</i>	The Science of Success
<i>University of Pennsylvania</i>	Culture-Driven Team Building Specialization
<i>IESE Business School</i>	Foundations of Management Specialization
<i>University of Florida</i>	Personality Types at Work
<i>Yale University</i>	Connected Leadership
<i>University of Illinois at Urbana</i>	Global Challenges in Business Specialization
<i>Emory University</i>	Management Consulting Specialization
<i>University of Michigan</i>	Inspiring and Motivating Individuals
<i>University of Michigan</i>	Financial Technology Innovation Specialization
<i>University of Illinois at Urbana-Champaign</i>	Formal Financial Accounting
<i>HEC Paris</i>	Inspirational Leadership: Leading with Sense Specialization
<i>HEC Paris</i>	Building Your Leadership Skills
<i>University of Pennsylvania</i>	Fintech: Foundations & Applications of Financial Technology Specialization
<i>University of Pennsylvania</i>	Entrepreneurship Specialization
<i>EDHEC Business School</i>	Investment Management with Python and Machine Learning Specialization
<b>Epidemiology Training</b>	
<i>Johns Hopkins University</i>	Epidemiology in Public Health Practice Specialization
<i>University of Maryland, College Park</i>	Survey Data Collection and Analytics Specialization
<i>New York University</i>	Introduction to Multiphase Optimization Strategy
<i>Johns Hopkins University</i>	Public Health Perspectives on Sustainable Diets
<i>University of Michigan</i>	The Influence of Social Determinants on Health Specialization
<i>Johns Hopkins University</i>	Biostatistics in Public Health Specialization
<b>Engineering Training</b>	
<i>Dartmouth College</i>	The Engineering Structures Around Us Specialization
<i>The Hong Kong University of Science and Technology</i>	Mathematics for Engineers Specialization

### **PepsiCo Trainings:**

## **X. Awards and Honors**

### **A. Awards**

1. Oklahoma Board of Regents Mentorship of Undergraduate Students Award 2012
2. Mentoring Undergraduate Student Research Award for Faculty (Oklahoma City University) 2012
3. 20 under 40 Northern New York 2017
4. Clarkson University Spirit of Entrepreneurship Award 2017
5. Clarkson University President's Challenge Faculty Award for Innovate Teaching Spring 2020

- |   |              |
|---|--------------|
| 6. Best Research Award- International Research Awards on Psychiatry and Mental Health- Pencis | May 2021     |
| 7. Best Reviewer PepsiCo Life Sciences  | January 2024 |

## B. Honors

- |  |  |
|--|--|
| 1. Inducted into Striving Towards Academic and Renowned Success (STARS) Multicultural Honor Society            | 2011   |
| 2. One of 35 invitees to become Tennessee Board of Regents (TBR) Research Fellow                               | 2011   |
| 3. One of 75 invitees to attend the 1 <sup>st</sup> Annual Tennessee Board of Regents (TBR) Research Symposium | 2011   |
| 4. Oklahoma State University Academic Graduate Scholarship (renewed annually)                                  | 2006-2009  |
| 5. Oklahoma State University Deans List  | Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008, Spring 2009 |
| 6. University of New Orleans Deans List  | Spring 2004, Fall 2004, Spring 2005                                    |
| 7. Tulane University Deans List  | Fall 2001, Spring 2002   |
| 8. Inducted into National Society of Collegiate Scholars (NSCS)  | 2000   |
| 9. Royal J. Prince Scholarship Recipient- \$36,000/year  | 1999-2002  |
| 10. Clarkson Merit Award- \$20,000/year  | 1998   |
| 11. Who's Who in America   | 1997-1999  |
| 12. Presidential Classroom Scholar   | 1998   |

## XI. Workshops and Seminar Training

### A. Workshops

**Binghamton University** Data Science & Artificial Intelligence Live Virtual Workshop January 26-28, 2021

## XII. Academic and Peer Review

### A. Grant Review

1. Quebec-Flanders Bilateral Research Cooperation Program- Grant reviewer
2. Clarkson University COVID-19 Virus Related Research- Grant reviewer
3. National Science Foundation (NSF)- Grant reviewer

### B. Editorial Boards

1. Frontiers in Psychology- Review Editor
2. Frontiers for Young Minds- Associate Editor
3. Frontiers in Psychology- Lead Guest Editor for special edition on Feelings of Energy and Fatigue: Two Different Moods
4. International Journal of Environmental Research and Public Health- Lead Guest Editor for special edition on Physical Activity and Sedentary Behavior: Trends and impact during the pandemic
5. Sports- Lead Guest Editor for special edition on Advances in Association between changes in feelings of energy and fatigue and sports performance
6. Frontiers in Psychology- Guest Editor: Physical Therapy for Mental Health and Quality of Life Promotion
7. Nutrients- Review Editor
8. Sensors- Review Editor

### C. Book Review

1. Gellert, C. Synergy of Human Movement. **Boolani, A.** NFPT
2. Mottram, D. & Chester, N. Drugs in Sports 6<sup>th</sup> Edition. **Boolani, A.** Routledge.
3. Ives, J. Motor Behavior. **Boolani, A.** Lippincott, Williams & Wilkins.

February, 2024

#### D. Journal Ad Hoc Reviewer

Serve as ad-hoc peer reviewer for multiple academic journals including: Journal of Strength and Conditioning Research, Journal of Sports Sciences, Sage Open, International Journal of Health Promotion and Education, Ageing Research Reviews, Advances in Mechanical Engineering, International Journal of Sports Medicine, PLOS One, International Journal of Sports Medicine, Nature Neuropsychopharmacology, Evolutionary Behavioral Sciences, Nutrients, European Journal of Clinical Nutrition, International Journal of Environmental Research and Public Health, Sensors, Frontiers in Psychology, Frontiers in Public Health, Journal of American Geriatrics Society, Sleep Health, Journal of Manipulative and Physiological Therapeutics, Preventing Chronic Diseases, Safety Science, Gerontology, Journal of Integrative Medicine, Psychology Reports

#### E. Conference Academic Reviewer

1. American College of Sports Medicine (ACSM) Special Interest Group (SIG) abstract reviewer 2019-present

### XIII. Teaching

<b>CLARKSON COURSES</b>	<b>SEMESTER</b>	<b>STUDENTS</b>	<b>INSTRUCTOR RATINGS</b>	<b>AWARDS</b>
<b><i>Undergraduate Courses</i></b>				
<i>Kinesiology BY 415</i>	Spring 2020	12	4.9/5.0	Innovative Teaching Award Dean's Teaching Award
	Spring 2021	9	4.8/5.0	
<i>Anatomy and Physiology BY 472</i>	Spring 2022	46	4.5/5.0	
<i>Independent Study in Biology BY 451</i>	Fall-Spring 2014-2022	varied	4.9-5.0/5.0	
<i>Introduction to Physical Therapy Professions I- PT 105</i>	Spring 2018	17	4.4/5.0	
	Spring 2019	13	4.8/5.0	
<i>Introduction to Physical Therapy Professions II- PT 305</i>	Fall 2018	13	4.8/5.0	
	Fall 2018	14	4.7/5.0	
<i>Sophomore Honors Project- HP 200</i>	Fall 2021	42	4.9/5.0	
<i>Sophomore Honors Project- HP 201</i>	Spring 2022	42	4.9/5.0	
<i>Storytelling through Data- HP100</i>	Spring 2022	14	4.9/5.0	
<b><i>Graduate Courses- Biology</i></b>				
<i>Anatomy and Physiology BY 672</i>	Spring 2022	2	4.9/5.0	
<i>Graduate Thesis- BY 905</i>	Fall-Spring 2019-2022	1	4.9-5.0 (semester dependent)	
<b><i>Graduate Courses- Physical Therapy</i></b>				
<i>Cardiopulmonary Exercise Science PT 515</i>	Spring 2014	30	3.6/5.0	
	Spring 2015	28	3.9/5.0	
Co-taught	Spring 2016	27	4.1/5.0	
	Spring 2017	24	4.2/5.0	
	Spring 2018	22	4.2/5.0	
	Spring 2019	21	4.3/5.0	
	Spring 2020	19	4.4/5.0 (shifted online)	
<i>Analytic Methods for Physical Therapy- PT 528</i>	Summer 2015	30	4.3/5.0	
	Summer 2016	28	4.2/5.0	
	Summer 2017	27	4.4/5.0	

	Summer 2018	24	4.2/5.0	
	Summer 2019	22	4.4/5.0	
	Summer 2020	21	4.6/5.0 (online)	
	Summer 2021	18	4.5/5.0 (online)	
<i>Research Methods- PT 608</i>	Fall 2018	24	4.4/5.0	
	Fall 2019	22	4.9/5.0	Dean's Teaching Award
	Fall 2020	21	4.9/5.0 (online)	Dean's Teaching Award
<i>Research Practicum- PT 618</i>	Spring 2019	24	4.3/5.0	
	Spring 2020	22	4.8/5.0 (online)	
	Spring 2021	21	4.8/5.0 (online)	
<i>Writing and Presenting Research- PT 648</i>	Fall 2018	27	4.2/5.0	
	Fall 2019	24	4.2/5.0	
	Fall 2020	22	4.8/5.0 (online)	
<b>Graduate Courses- Physician Assistant</b>				
<i>Medical Physiology- PA 504</i>	Spring 2014	30	3.4/5.0	
cardiovascular system, pulmonary system,	Spring 2015	30	3.7/5.0	
gastrointestinal system, urinary system	Spring 2016	30	4.1/5.0	
	Spring 2017	30	4.4/5.0	
	Spring 2018	30	4.3/5.0	
<i>Medical Physiology- PA 505</i>	Summer 2014	30	3.5/5.0	
immunology, integumentary system	Summer 2015	30	3.9/5.0	
	Summer 2016	30	4.0/5.0	
	Summer 2017	30	4.3/5.0	
	Summer 2018	30	4.2/5.0	
	Summer 2019	30	4.4/5.0	
<i>Medical Physiology- PA 506</i>	Fall 2014	30	3.4/5.0	
Endocrine system, musculoskeletal physiology, neurophysiology	Fall 2015	30	3.8/5.0	
	Fall 2016	30	4.1/5.0	
	Fall 2017	30	4.2/5.0	
	Fall 2018	30	4.1/5.0	
<b>Guest Lecturer</b>				
<i>Foundational Sciences for Physical Therapy- PT 505</i>	Fall 2013	30	4.5/5.0	
Bone, tendon, ligament physiology, immunology	Fall 2014	30	4.4/5.0	
Cardiopulmonary physiology	Fall 2015	28	3.9/5.0	
	Fall 2016	27	4.1/5.0	
	Fall 2017	24	4.2/5.0	
	Fall 2018	22	4.0/5.0	
	Fall 2019	21	4.4/5.0	
	Fall 2020	19	4.3/5.0 (online)	
	Fall 2021	19	4.2/5.0 (online)	
<i>Cardiopulmonary Exercise Science PT 515 Lab</i>	Spring 2014	30	4.9/5.0	
	Spring 2015	30	4.8/5.0	
	Spring 2016	28	5.0/5.0	
	Spring 2017	27	4.9/5.0	



Spring 2018	24	5.0/5.0
Spring 2019	22	4.9/5.0
Spring 2020	21	No rating (online discussion board)

<b>GEORGE MASON UNIVERSITY</b>	<b>SEMESTER</b>	<b>STUDENTS</b>	<b>INSTRUCTOR RATINGS</b>
<i>Graduate Courses</i> <i>Advanced Exercise Physiology- KINE 601</i>	Fall 2022	14	4.8/5.0

<b>OKLAHOMA CITY UNIVERSITY</b>	<b>SEMESTER</b>	<b>STUDENTS</b>	<b>INSTRUCTOR RATINGS</b>	<b>AWARDS</b>
<i>Undergraduate Courses</i> <i>Health and Aging KES 3302</i>	Spring 2012	26	4.5/5.0	University Undergraduate Capstone Advisor award
<i>Senior KES Capstone KES 4662</i>	Spring 2012	18	4.9/5.0	
<i>Nutrition KES 2403</i>	Spring 2012	22	4.7/5.0	
<i>Wellness KES 1302</i>	Spring 2012	20	4.7/5.0	
<i>Motor Learning KES 3103</i>	Fall 2011	22	4.6/5.0	
<i>Kinesiology and Biomechanics KES 3213</i>	Fall 2011			
<i>Measurements and Statistical Evaluation in Kinesiology KES 4273</i>	Fall 2011	20	4.6/5.0	
<i>Exercise Programming for Special Populations KES 4612</i>	Fall 2011	17	4.5/5.0	
<i>Management of Personal Lifestyle HEAC 1013</i>	Semester in Singapore	30	4.8/5.0	

<b>TENNESSEE STATE UNIVERSITY</b>	<b>SEMESTER</b>	<b>STUDENTS</b>	<b>INSTRUCTOR RATINGS</b>
<i>Undergraduate Courses</i> <i>Weight Training- HPER 1030</i>			
<i>Kinesiology 3130</i>			
<i>Resistance Training Principles- HP 3330</i>			
<i>Advanced Weight Training- HPSS 3300</i>			
<i>Exercise Assessment and Prescription- HP2320</i>			
<i>Exercise Assessment and Prescription Lab- HPSS 2330</i>			
<i>Senior Project Writing- HPSS 4505</i>			
<i>Graduate Courses</i> <i>Sports Nutrition- HPSS 5470</i>			
<i>Sports and School Law- HPSS 5050</i>			
<i>Techniques of Cognitive &amp; Kinesthetic Appraisals- HPSS 5130</i>			
<i>Special Topics- HPSS 5700</i>			
<i>Independent Study- HPSS 5910</i>			

**COURSE DEVELOPMENT****UNIVERSITY***Clarkson University**University of West Alabama**Tennessee State University***COURSE**

Kinesiology- BY 451

Sophomore Honors Project- HP 200/201

Performance Enhancement Specialist- EX 472, EX 572

Corrective Exercise Specialist- EX 474, EX 574

Essentials of Strength and Conditioning

Corrective Exercise Training- HPSS 4440/5440

Optimal Sports Performance- HPSS 4460/5460

Essentials of Personal Training

EKG Testing and Interpretation

**XIV. Short Interviews** (only notable media appearances, full list can be provided)**A. Television:**

Hum TV (Pakistan)

Zee News (India)

KFOR- Spectrum news (United States)

WBUR (television affiliate of National Public Radio)

**B. Radio:**

National Public Radio (United States)

101.5 FM (Australia)

**C. Print and web media** (100+ print media interviews and 1500+ web/print media articles)

Women's Fitness, Italy Journal, New York Times, Readers Digest, India.com, Chicago Tribune, Huffington Post, Science Daily, PGA.com, Reuters

**XV. Advising:**

DPT = Doctor of Physical Therapy, DOT = Doctor of Occupational Therapy, MD = Doctor of Medicine, DO = Doctor of Osteopathic Medicine, MOT = Master of Occupational Therapy, PhD = Doctor of Philosophy, MS = Master of Science

**Student Name****Current placement*****Post-doctoral fellows***

Ahmed Kadry

Tenured Associate Professor Kafr El-Sheik University

Ahmed Torad

Tenure Track Assistant Professor Kafr El-Sheik University

Mostafa Ali Elwan

Tenure Track Assistant Professor University of Cairo

***PhD students***

Justin Merrigan

Industry

Katherine Kowalski

Industry

Da Yang

Industry

Megan Van der Weyden

George Mason University current PhD student

Masoud Moghaddam

Tenure Track Assistant Professor University of Maryland Eastern Shores

Daniel Fuller

Clarkson University current PhD student mathematics

Emma Dupree

Industry

Michael Tzocko

George Mason University current PhD student

Alex Boruch

University of Wisconsin at Madison current PhD student

Racha Said

University of Masstricht current PhD student

Michael Tzocko

George Mason University current PhD student

***M.S. in Biology***

Niklas McKone

Athletic Trainer Ithaca College

Maggie Stark

Touro Medical College- DO

Dalton Dowd

University of Vermont College of Medicine student (MD)



## **XVI. Service**

### **A. Community Service**

President Greater New York ACSM	2023-2026
Mentor- Biodesign Challenge Rochester Institute of Technology	2023
Mentor- American Pakistan Foundation	2020- present
Volunteer and Founder Clarkson Feeds	2016- 2019
Mission trip to Nicaragua	May 2017
Volunteer and Founder of PB&J	2013- 2020
Volunteer Athens Homeless Shelter	2012-2014
Volunteer and Founder- International Youth program	2010- 2012
Volunteer basketball coach- Deer Creek Optimist	2011-2012
Volunteer tutor- Tennessee State University Tennis teams	2010-2011
Volunteer basketball and soccer coach- YMCA	2005- 2011
Volunteer- Tulane University Hospital	2001-2003
Program Director and Founder- YMCA Computer and Kids program	1999-2001
Boy Scouts of America	1997-2005
Volunteer- Aga Khan Community Center	1994-1999

### **B. Professional Service**

American College of Sports Medicine New York Chapter- President Elect	2024-2027
American College of Sports Medicine New York Chapter- Executive Committee	2023-present
American College of Sports Medicine New York Chapter- Programming Committee	2021-present
State University of New York at Canton- advisory board	2021-present
American College of Sports Medicine- session Chair	2020
Panelist- National Science Foundation (NSF)	2019- present
American College of Sports Medicine Special Interest Group- reviewer	2019- present

### **C. University Service, Committees and Administrative Responsibilities**

#### *Clarkson University*

Living Learning Communities- Health Sciences Faculty Advisor	2021- 2022
Honorary Degree Committee	2021- 2022
Anti-Racism Taskforce	2020- 2022
Institute for Anti-Racism	2020- 2022
Advocates and Allies for Gender Diversity	2020- 2022
Research and Intellectual Property Committee	2019- 2021
Doctor of Physical Therapy Research Coordinator	2018- 2022
Department of Physical Therapy Semester 1 coordinator search committee chair	2019- 2020
College of Arts and Sciences Associate Dean for Health Sciences search committee	2018-2020
Men's Group- Mentor	2018- 2019
Panel chair for Clarkson University Research And Project Showcase	2018
Member of Physician Assistant Program Didactic Director search committee	2018
Chair of committee to change research curriculum, Department of Physical Therapy	2017-2018
Member of Clarkson School Strategic Planning Committee	2017-2018
Member of Clarkson University United Way Steering Committee	2017-2019
Member of admissions committee, Department of Physical Therapy	2017-2018, 2019- 2020
Member of CAPTE accreditation committee, Department of Physical Therapy	2016-2018

Member of David A. Walsh Arts and Sciences Seminar committee	2016-2022
Member, Faculty search committee, Department of Physical Therapy	2015-2016
Member, Faculty search committee, Department of Physical Therapy	2014-2015

Oklahoma City University

Accreditation committee for Kinesiology Department	2011-2012
Nutrition and wellness committee	2011-2012

Tennessee State University

Chair, Exercise Science Committee	2010- 2011
Faculty senator	2011
College of Health Sciences External Funding committee	2011
Faculty Advisor HPSS club	2011
Member, HPSS recruitment committee	2010- 2011
Member, Athletic Training Committee	2010- 2011
Member, College of Education Student Recruitment and Retention Committee	2010- 2011
Member, College of Education Unit News Letter	2010-2011

Oklahoma State University

Student Representative Faculty Search Committee Exercise Science, College of Education	2008
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**XVII. Advanced training and memberships**

**A. Advanced Professional Training**

<b>Organization</b>	<b>Credential</b>	<b>Date credentialed</b>
New York Association of Mediators	Certified Mediator	May 2018
National Council for Mental Wellbeing	Mental Health First Aid	January 2022

**B. Professional Memberships**

<b>Organization</b>	<b>Position held</b>	<b>Year</b>
National Strength and Conditioning Association (NSCA)	Member	2004- present
American College of Sports Medicine (ACSM)	Member	2004- present
New York Chapter ACSM	President-elect	2021- present
American Society of Nutrition (ASN)	Member	2012- 2016
American Physiological Society (APS)	Member	2012- 2020
Central States American College of Sports Medicine (CSACSM)	Member	2006-2012
Tennessee Alliance for Health, Physical Education, Recreation & Dance (TAHPERD)	Member	2010-2011
National Society of Collegiate Scholars (NSCS)	Secretary	2001-2002

**XVIII. Other professional activities**

Experimental Program to Stimulate Competitive Research (EPSCOR) National Science Foundation (NSF) Grants Workshop	May 17, 2012
Beginning Grant Writing Workshop- Oklahoma Board of Regents February, 2024	January 17, 2012

