

JASON BAXTER BOYLE

College of Health Sciences
The University of Texas at El Paso

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Website: [VRMC lab](#)

EDUCATION

Doctor of Philosophy, Kinesiology (*Motor Neuroscience*) May 2014
Texas A&M University, College Station, TX

Master of Science, Kinesiology (*Motor Neuroscience*) Dec 2010
Texas A&M University, College Station, TX

Bachelor of Science, Kinesiology (*Motor Behavior*) Dec 2008
Minor, Psychology
Texas A&M University, College Station, TX

PROFESSIONAL EXPERIENCE

Associate Professor
- Program Coordinator: Masters of Kinesiology Sep 2019 –
- Department of Kinesiology Sep 2014 –
- Doctor of Physical Therapy Program Jan 2015 –
Assistant Professor Sep 2014 – Aug 2020
Lecturer Sep 2013 – Aug 2014
The University of Texas at El Paso, El Paso, TX

Adjunct Lecturer
- Department of Kinesiology and Dance Jan 2019 –
New Mexico State University, Las Cruces, NM

Adjunct Lecturer
- Department of Kinesiology Aug 2017 –
Sam Houston State University, Huntsville, TX

Strategic Fellowship Research Assistant Aug 2012 – Aug 2013
Graduate Teaching/Research Assistant Jan 2009 – Aug 2012
Texas A&M University, College Station, TX

TEACHING EXPERIENCE

The University of Texas at El Paso

+ Denotes original course creation

- KIN 3332 Motor Behavior
- KIN 3333 Motor Development +
- KIN 4310 Selected Topics: Motor Neuroscience +
- KIN 4311 Sport Psychology *
- KIN 4313 Biomechanics
- KIN 4323 Current Issues in Exercise Science
- KIN 5373 Motor Learning & Control (Masters of Kinesiology Program)
- DRSC 5390 Neuroscience for Health Sciences (Doctor of Physical Therapy Program)
- PT 6207 Motor Control & Motor Learning (Doctor of Physical Therapy Program)

New Mexico State University

- SP M 341 Motor Development (Online)

Sam Houston State University

- KINE 3364 Motor Learning (Online)

Texas A&M University

- KINE 690 Theory of Research in Discipline (Doctoral Teaching)

RESEARCH EXPERIENCE

Refereed Journal Publications

* Denotes Senior Author + Denotes Thesis/Dissertation/Capstone

22. Eggleston, J., Chavez, E., Dufek, J., Olivas, A., **Boyle, J.B.**, Harry, J., & Cereceres, P. (accepted) Lesser magnitudes of lower extremity variability during terminal swing characterizes walking patterns in children with autism. *Clinical Biomechanics*.
21. +Gamez Corral, A.S., Manning, R., Wang, C., Cisneros, A., Meeuwsen, H.J., & ***Boyle, J.B.**, (2019) A Novel Approach to Enhancing Upper Extremity Coordination in Children with Autism Spectrum Disorder. *Journal of Motor Behavior*, 1-7.
20. Dorgo, S., Perales, J., **Boyle, J.B.**, Hauselle, J. & Montalvo, S. (2019) Sprint Training on a Treadmill vs. Overground Results in Modality-Specific Impact on Sprint Performance but Similar Positive Improvement in Body Composition in Young Adults. *Journal of Sport Sciences*.
19. +Howard, J., Dorgo, S., Salvatore, A. & ***Boyle, J.B.** (2019) The Use of Mobile Phone applications for Concussions When Athletic Trainers Are Not Present. *Journal of Physical Education, Recreation & Dance*. 90(2), 43-51.
18. Wang, C., **Boyle, J.B.**, Boyi, D., & Shea, C.H. (2017) Do accuracy requirements change bimanual and unimanual control strategies? *Experimental Brain Research*, 235, 1467-1469.
17. Naaktgeboren, K., Dorgo, S., & **Boyle, J.B.** (2017) Growth Plate Injuries in Children in Sport: a Review of Sever's Disease. *Strength and Conditioning Journal*, 39, 59-68.

16. **+Boyle, J.B.**, Kennedy, D., Wang, C., & Shea, C.H. (2016). Optimizing high ID performance: The role of the tracking template. *Journal of Motor Learning and Development*, 4.1, 80-99.
15. **+Boyle, J.B.**, Kennedy, D.M., & Shea, C.H. (2015). A novel approach to enhancing limb control in older adults. *Experimental Brain Research*, 233, 2061-2071.
14. Kennedy D.M., **Boyle, J.B.**, Rhee, J. & Shea, C.H. (2015) Rhythmical Bimanual Force Production: Homologous and Non-Homologous Muscles. *Experimental Brain Research*, 233, 181-195.
13. Kennedy, D.M., **Boyle, J.B.**, Wang, C., & Shea, C.H. (2014). Bimanual force control: Cooperation and interference? *Psychological Research*, 80, 34-54.
12. **Boyle, J.B.**, Kennedy, D., Wang, C., & Shea, C.H. (2014). The sine wave protocol: Decreasing movement time without increasing errors. *Journal of Motor Behavior*, 46, 233-241.
11. **+Boyle, J.B.**, Panzer, S., Wang, C., Kennedy, D., & Shea, C.H. (2013). Optimizing the control of high ID single degree of freedom movements: Re-thinking the power of the visual display. *Experimental Brain Research*, 231, 479-493.
10. Wang, C., Kennedy, D., **Boyle, J.B.**, & Shea, C.H. (2013). A guide to performing difficult bimanual coordination tasks: Just follow the yellow brick road. *Experimental Brain Research*, 230: 31-40.
9. **Boyle, J.B.** & Shea, C.H. (2013). Micro-movements of varying difficulties: Wrist and arm movements. *Experimental Brain Research*, 229, 61-73.
8. Kennedy, D., **Boyle, J.B.**, & Shea, C.H. (2013). The role of auditory and visual models in the production of bimanual tapping patterns. *Experimental Brain Research*, 224, 507-518.
7. **Boyle, J.B.**, Kennedy, D., & Shea, C.H. (2012). Optimizing the control of high ID single degree of freedom movements: Re-thinking the obvious. *Experimental Brain Research*, 223, 377-387.
6. Panzer, S., **Boyle, J.B.**, & Shea, C.H. (2012). Additional load decrease movement time in the wrist but not in arm movements at ID 6. *Experimental Brain Research*, 224, 243-253.
5. **Boyle, J.B.**, Panzer, S., Wright, D., & Shea, C.H. (2012). Extended practice of reciprocal wrist and arm movements of varying difficulties. *Acta Psychologica*, 140, 142-153.
4. **Boyle, J.B.**, Panzer, S., & Shea, C.H. (2012). Increasingly complex bimanual multi-frequency coordination patterns are equally easy to perform with on-line relative velocity feedback. *Experimental Brain Research*, 216, 515-525.
3. Shea, C.H., **Boyle, J.B.**, & Kovacs, A.J. (2012). Bimanual Fitts' tasks: Kelso, Southard, and Goodman, 1979 revisited, *Experimental Brain Research*, 216, 113-121.
2. **+Boyle, J.B.**, & Shea, C.H. (2011). Wrist and arm movements of varying difficulties. *Acta Psychologica*, 137, 382-396.
1. Kovacs, A.J., **Boyle, J.B.**, Grutmatcher, N., & Shea, C.H. (2010). Coding of on-line and pre-planned movement sequences. *Acta Psychologica*, 133, 119-126.

Under Review

* Denotes Senior Author + Denotes Thesis/Dissertation/Capstone

2. Eggleston, J., Olivas, A., Vanderhoof, H., Chavez, E., Alvarado, C., & **Boyle, J.B.**, (in revision) Children with autism exhibit individualized responses to live animation biofeedback compared to children with typical development. *Perceptual and Motor Skills*.
1. Cereceres, P., Saucedo, F., Eggleston, J., & ***Boyle, J.B.** (in review). Optimizing High ID Upper Extremity Motor Behavior: The Role of Observation vs Action. *Perceptual Motor Skills*.

In Development

4. Cereceres, P., Stewart, D., Yang, F., & ***Boyle, J.B.** (writing) The effect of task difficulty on center of mass loading in a two footed forward leap. Target Journal: *Journal of Motor Behavior*.
3. +Cereceres, P., +Pearson, J., Solis, A., Diaz, C., Manning, R., Eggleston, J., Aiken, C. & ***Boyle, J.B.** (writing). Discrete and Cyclical units of action in children diagnosed with Autism Spectrum Disorder. Target Journal: *Journal of Motor Behavior*.
2. +Cereceres, P., Manning, R., Eggleston, J. & ***Boyle, J.B.** (writing). Estimated vs Actual Reach in Children Diagnosed with Autism Spectrum Disorder. Target journal: *Experimental Brain Research*.
1. +Diaz, C., Cereceres, P. Pearson, J., Manning, R., Meeuwsen, H., Eggleston, J. & ***Boyle, J.B.** (currently delayed in data collection). Sensory integration and its role in behavioral plasticity in children diagnosed with Autism Spectrum Disorder. Target Journal: *Journal of Motor Learning and Development*.

National & International Presentations (Published Abstracts)

* Denotes Senior Author + Denotes Thesis/Dissertation/Capstone

24. +Cereceres, P., Manning, R. & ***Boyle, J.B.** (2020) Imagined and Executed Upper Extremity Reach in Children Diagnosed with Autism Spectrum Disorder. *Journal of Sport & Exercise Psychology*, 42.
23. +Diaz, C., Cereceres, P., Bialunska, A., Manning, R. & ***Boyle, J.B.** (2020) Upper Extremity Control in Children Diagnosed with ASD: The Role of Vision and Proprioception in Sine Wave Tracking. *Journal of Sport & Exercise Psychology*, 42.
22. +Torres, J., +Sosa, K., +Baralt, A., +Durling, M., Cereceres, P., **Boyle, J.B.** & Manning, R. (2019) Proprioceptive Vs. Visual Feedback Impact on Throwing Coordination in Children with Autism Spectrum Disorder. TPTA annual meeting.
21. +Green, M., +Bruns, H., +Tye, J., +Wagner, N., Cereceres, P., Manning, R. & ***Boyle, J.B.** (2019) Observational Study of Reach Planning and Action in Children with ASD Compared to Neurotypical Children. TPTA Annual meeting.
20. **Boyle, J.B.**, Kennedy, D., Saucedo, F., & Cereceres, P. & (2018). The role of actor vs observer in reciprocal upper extremity sine wave tracking. *Journal of Sport & Exercise Psychology*, 40.

19. ⁺Stewart, D., Saucedo, F., Cereceres, P. & **Boyle, J.B.**, (2018). Random, timed and self-paced: How preparation time affects the loading of the body prior to flight in a two-footed forward leap. *Journal of Sport & Exercise Psychology*, 40.
18. ⁺Gamez, A., Wang, C., Manning, R. & **Boyle, J.B.** (2017). A novel approach to enhancing upper extremity coordination in children with autism spectrum disorder. *Journal of Sport & Exercise Psychology*, 39
17. **Boyle, J.B.**, Wang, C., ⁺Gamez, A., & Ables, A. (2016). Single and dual leg Fitts task: Is two better than one? *Journal of Sport & Exercise Psychology*, 38
16. **Boyle, J.B.**, ⁺Sullivant, F., & Yang, F. (2016). The effect of task difficulty on center of mass loading in a two footed forward leap. *Journal of Sport & Exercise Psychology*, 38
15. **Boyle, J.B.**, Kennedy, D.M., Wang, C., & Shea, C.H. (2015). Optimizing high ID performance: The role of the tracking template. *Journal of Sport & Exercise Psychology*, 37
14. Kennedy D.M., Wang C, **Boyle J.B.**, & Shea C.H. (2014). The effects of homologous and non-homologous muscle activation on neural crosstalk. *Journal of Sport & Exercise Psychology*, 36
13. **Boyle, J.B.**, Kennedy, D.M., Wang, C., & Shea, C.H. (2014). Age-related kinematic changes following sine wave tracking. *Journal of Sport & Exercise Psychology*, 36
12. Wang, C., Kennedy, D.M., **Boyle, J.B.**, & Shea, C.H. (2014). Bimanual and unimanual movement sequences: The role of element difficulty. *Journal of Sport & Exercise Psychology*, 36
11. Kennedy, D.M., Wang, C., **Boyle, J.B.**, & Shea, C.H. Rhythmical bimanual force production: Homologous and non-homologous muscles. Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013
10. **Boyle, J.B.**, Kennedy, D., Wang, C., & Shea, C.H. (2013). The role of amplitude in high ID movement optimization. *Journal of Sport & Exercise Psychology*, 35 (Supplement): S22
9. Kennedy, D., **Boyle, J.B.**, Wang, C., & Shea, C.H. (2013). Bimanual Force Control: Cooperation and Interference? *Journal of Sport & Exercise Psychology*, 35 (Supplement): S33
8. **Boyle, J.B.**, Kennedy, D., Wang, C., & Shea, C.H. (2013). Optimizing the control of high ID wrist and arm movements *Journal of Sport & Exercise Psychology*, 35 (Supplement): S21
7. **Boyle, J.B.**, & Shea, C.H. Normal and micro-movements of varying difficulties: Wrist and arm movements. Program No. 591.14. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012
6. Shea, C.H., & **Boyle, J.B.** Optimizing the control of High ID reciprocal aiming. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012
5. Kennedy, D., **Boyle, J.B.**, & Shea, C.H. (2012). Utilizing auditory and visual cues in a multi frequency tapping experiment. *Journal of Sport & Exercise Psychology*, 34 (Supplement): S64
4. **Boyle, J.B.**, Kennedy, D., & Shea, C.H. (2012). Harmonic reciprocal motion at an ID of 6: Rethinking the obvious. *Journal of Sport & Exercise Psychology*, 34 (Supplement): S64
3. **Boyle, J.B.**, & Shea, C.H. (2011). Control of wrist and arm movements of varying difficulties. *Journal of Sport & Exercise Psychology*, 33 (Supplement): S56

2. **Boyle, J.B.**, & Shea, C.H. (2011). Arm and wrist control: Extended practice Fitts task. *Journal of Sport & Exercise Psychology*, 33 (Supplement): S56
1. Shea, C.H., & **Boyle, J.B.** (2011). Bimanual coordination: Evaluating feedback displays. *Journal of Sport & Exercise Psychology*, 33 (Supplement): S11

Under Review

1. Eggleston, J., Olivas, A., Chavez, E., Vanderhoof, H., **Boyle, J.B.**, Alvarado, C. (in review) Live Animation Biofeedback Responses between Children with Autism and Children with Typical Development. American Society of Biomechanics.

Local & Regional Presentations

- Solis, A., Pearson, J., Cereceres, P., & ***Boyle, J.B.** (2019) Do haptic events assist fine motor control in children diagnosed with Autism Spectrum Disorder? Campus Office of Undergraduate Research Initiatives (COURI) Research Symposium.
- VRMC Lab panel table. (2019) 2nd annual UTEP Lights up Blue for Autism Awareness event.
- **Boyle, J.B.** (2018) Motor control in children diagnosed with Autism Spectrum Disorder: Current knowledge and future directions. 1st annual UTEP Lights up Blue for Autism Awareness event.
- Gamez, A.S. & ***Boyle, J.B.** (2017). A novel approach to enhancing upper extremity coordination in children with autism spectrum disorder. UTEP College of Health Sciences, Healthy Exchange Forum.
- UTEP Masters of Occupational Therapy Program (Guest Lecture, Sensory Development). Presentation Title: Motor Development: Current issues OT's face. (2017)
- Gamez, A.S. & ***Boyle, J.B.** (2016). The effect of task difficulty on center of mass loading in a two footed forward leap. UTEP College of Health Sciences, Healthy Exchange Forum.
- UTEP Doctor of Physical Therapy Program (Guest Lecture, Neuro modalities II). Presentation Title: Cellular to Behavioral Plasticity. (2015)
- Kennedy, D.M., Wang, C., **Boyle, J.B.**, & Shea, C.H. (2014). Rhythmical bimanual force production: Homologous and non-homologous muscles. Texas A&M Student Research Week.
- **Boyle, J.B.** (2014). Kinematic changes following sine wave tracking: A novel approach to enhancing elderly limb control. UTEP College of Health Sciences, Healthy Exchange Forum.
- Meeuwssen, H. J., Yang, F., & **Boyle, J.B.** (2014). The challenges of adopting Team Based Learning in the first semester as a faculty member. Paper presented at the International Sun Conference on Teaching and Learning. The University of Texas at El Paso, El Paso, TX. March 7.
- Kennedy, D.M., Wang, C., **Boyle, J.B.**, & Shea, C.H. (2014). Rhythmical bimanual force production: Homologous and non-homologous muscles. Texas A&M Society for Neuroscience.

- **Boyle, J.B.** (2014) Victoria University College of Health & Biomedicine, Melbourne Australia (Teleconference) Presentation Title: Kinematic changes following sine wave tracking: A novel approach to enhancing elderly limb control.
- Kennedy, D.M., **Boyle, J.B.**, Wang, C., & Shea, C.H. (2013). Bimanual force control: Cooperation & interference. Texas A&M Student Research Week.
- Kennedy, D.M., **Boyle, J.B.**, & Shea, C.H. (2012). Rhythmical bimanual force production: 1:2 and 2:3 coordination patterns. Texas Brain & Spine Institute 6th Annual Neuroscience Symposium.
- Kennedy, D.M., **Boyle, J.B.**, & Shea, C.H. (2012). Polyrhythmic Bimanual force production. Texas A&M Institute for Neuroscience Annual Poster Session
- Shea, C.H., **Boyle, J.B.**, & Kovacs, A. (2012). Bimanual Fitts' tasks: Kelso, Southard, and Goodman, 1979 revisited. Verbal presentation: Texas A&M Student Research Week.
- Kennedy, D., **Boyle, J.B.**, & Shea, C.H. (2012). Utilizing auditory and visual cues in a multi frequency tapping experiment. Poster presentation: Texas A&M Student Research Week.

Community Outreach

- College of Health Sciences Website: Collaborative Scholarship - CHS Professors Cross Disciplines to Address Autism. (2019) [Link](#)
- **Boyle, J.B.** Controlling the Wrist and Arm. The Eagle: Fitness and Sports Science Blog (June 2015). [Link](#)
- **Boyle, J.B.** Improving Goal-Directed Limb Movement: Don't Overthink This! Sydney and JL Huffines Institute for Sports Medicine and Human Performance Weekly Public Sports Medicine Topic. (June 2013). [Link](#)
- **Boyle, J.B.** Control of wrist and arm movements of varying difficulties. Sydney and JL Huffines Institute for Sports Medicine and Human Performance Weekly Public Sports Medicine Topic. (March 2012). [Link](#)

GRANT EXPERIENCE

External: Current Funding

- Texas Physical Therapy Foundation (2018)
PI: Jason B Boyle & Rhonda Manning
Amount: \$3,750
Project Title: An Observational Study of Reach Planning and Action in Children with Autism Spectrum Disorder (ASD) Compared to Typical Developing Children
- Stern Foundation Perpetual Medical and Scientific Research Fund (2019)
PI: Jeff Eggleston
Co-I: Jason Boyle
Amount: \$15,000
Project Title: Using live animation biofeedback to elicit changes in motoric response patterns in children with Autism Spectrum Disorder

Internal: Current Funding

- UTEP College of Health Sciences Applied and Translational Research Fund (2019)
Project Title: Neuromuscular Electrical Stimulation (E-Stim) – A Novel Strategy to Improve Insulin Sensitivity
PI: Sudip Bajpeyi
Co-I: Jason Boyle
Amount: \$7,500

External: Submitted

NA

Internal: Submitted

NA

In Development

- National Robotics Initiative 2.0: Ubiquitous Collaborative Robots (TBD)
PI: Angel Flores Abad
Co-I: Jason B Boyle
Amount: \$500,000
Project Title: Internal Models of Action in Human-Robotic Interactions

External: Completed

- Organization for Autism Research-Graduate Research Grant Program (2016)
Student: Alejandra Gamez
Faculty PI: Jason Boyle
Amount: \$1,000
Project Title: A Novel Approach to Enhancing Upper Extremity Coordination in Children with Autism Spectrum Disorder

Internal: Completed

- The University of Texas at El Paso- University Research Initiative Program (2018)
PI: Jason Boyle
Amount: \$5,000
Project Title: Neural Correlates of Preparatory and Online Upper Extremity Coordination in Children Diagnosed with Autism Spectrum Disorder
- The University of Texas at El Paso- University Research Initiative Program (2015)
PI: Jason Boyle
Amount: \$5,000
Project Title: Kinematic components of limb movement in visually augmented environments
- Huffines Institute of Human Performance and Sports Medicine- Research (2012)
Amount: \$1,500
Project Title: Optimizing Goal Directed Movement at Varying Levels of Feedback Manipulation

- TAMU College of Education and Human Development Research Grant (2012)
Amount: \$950
Project Title: Arm and Wrist Kinematics under Visual and Physical Gain Manipulations

Student Funding

- UTEP BUILDing Scholars Summer Research Program (2019)
Student: Ana Solis (New Mexico State University)
Amount: \$1,000
Project Title: Upper Extremity coordination in children with Autism Spectrum Disorder
- UTEP Graduate School Dodson Research Grant (2018)
Student PI: Fabricio Saucedo
Amount: \$3,000
Project Title: Effects of Controlled Whole-body Vibration Training on Reducing Falls Among Mexican-American Stroke Patients
- UTEP Graduate School Dodson Research Grant (2018)
Student PI: Clarissa Diaz
Amount: \$3,000
Project Title: Sensory integration and its role in neural plasticity in children diagnosed with Autism Spectrum Disorder
- American College of Sports Medicine –Texas (TACSM)(2018)
Student Research Development Award
Student: Fabricio Saucedo
Amount: \$1,500
Project Title: Effects of Controlled Whole-body Vibration Training on Reducing Falls Among Mexican-American Stroke Patients
- UTEP Graduate School Travel Award (2017)
Student: Alejandra Gamez
Amount: \$850
- UTEP College of Health Sciences Travel Award (2017)
Student: Alejandra Gamez
Amount: \$500
- UTEP Graduate School: Summer Research Assistantship Award (2017)
Student: Dorothy Stewart
Amount: \$3,000
- UTEP Graduate School Travel Award (2017)
Student: Fabricio Saucedo
Amount: \$850
- American Society of Biomechanics Diversity Travel Award (2017)
Student: Fabricio Saucedo
Amount: \$500

- Organization for Autism Research-Graduate Research Grant Program (2016)
Student: Alejandra Gamez
Amount: \$1,000
Project Title: A Novel Approach to Enhancing Upper Extremity Coordination in Children with Autism Spectrum Disorder

External: Not Funded

- NIH-NICHD, R03, PAR-16-162 (June 2020)
National Institutes of Health- National Institute Child Health and Human Development
Project Title: Neural Correlates of Motor Behavior in Children Diagnosed with Autism Spectrum Disorder
PI: Jason B Boyle
Co-I: Jeff Eggleston (Kinesiology), Anita Bialunska (Rehabilitation Sciences), Rhonda Manning (DPT), Angel Flores-Abad (Engineering)
Amount: \$151,000
- Edward Mallinckrodt, Jr. Foundation
*Selected in UTEP single submission pool. Full Submission- August 2019
PI: Jeff Eggleston
Co-I: Jason Boyle
Amount: \$72,000
Project Title: Quantification of Neural Activity with Functional Near-infrared Spectroscopy and Lower Extremity Mechanics during Perturbed Locomotor Activities in Children with Autism Spectrum Disorder
- The Medical University of South Carolina (July 2019)
Training in Grantsmanship for Rehabilitation Research workshop (TIGRR)
PI: Jason Boyle
Workshop Dates: 1/7/2020 – 1/11/2020
Proposal Title: Neural Correlates of Goal Directed Motor Behavior in Children Diagnosed with Autism Spectrum Disorder
- Edward Mallinckrodt, Jr. Foundation (2019)
*Internal UTEP rejection due to 5th year junior professor timeline
PI: Jason Boyle
Amount: \$58,000
Project Title: Neural Correlates of Motor Behavior in Children Diagnosed with Autism Spectrum Disorder
- Texas Physical Therapy Foundation (2018)
PI: Jason B Boyle & Rhonda Manning
Project Title: Proprioceptive vs. Visual Feedback Impact on Throwing Coordination in Children with Autism Spectrum Disorders

- The Medical University of South Carolina (2018)
Training in Grantsmanship for Rehabilitation Research workshop (TIGRR)
PI: Jason Boyle
Proposal Title: Examining the impact of proprioception and visual feedback during a novel upper extremity training protocol in Autistic children: An fNIRS/EMG study
- Department of Defense, CDMRP: Autism Research Program (2018)
PI: Jeff Eggleston
Co-I: Jason Boyle
Project Title: The Influence of Sensory Feedback Mechanisms on Task Performance and Motor Pattern Variability in Children with Autism
- DeLuca Foundation Research Scholarship (2018)
Student PI: Clarissa Diaz
Faculty advisor: Jason Boyle
Project Title: Sensory integration and its role in neural plasticity in children diagnosed with Autism Spectrum Disorder: An EMG study
- Autism Science Foundation (2017)
Research Accelerator Grant
PI: Jason B Boyle
Project Title: Sensory Integration and Motor Behavior: An Investigation of Upper Extremity Control in Children Diagnosed with ASD
- Simons Foundation (2017)
Autism Research Initiative- Pilot Grant Program
PI: Jason B Boyle
Project Title: Neural Correlates of Discrete and Cyclical Upper Extremity Action
- NSF-PAC, PD-09-7252 (2017)
National Science Foundation- Division of Behavioral and Cognitive Sciences
Perception, Action & Cognition
PI: Jason B Boyle
Project Title: The critical index of difficulty in augmented virtual environment
- Simons Foundation Autism Research Initiative-Explorer Awards (2017)
PI: Jason B Boyle
Project Title: ASD motor control: Issues and enhancements in perception-to-action
- NIH-NIBIB, R03, PA-16-162 (2016)
National Institutes of Health- National Institute of Biomedical Imaging and Bioengineering
PI: Jason B Boyle
Project Title: Critical ID Shifts: The Role of Visual and Physical Manipulations in Upper Extremity Motor Control
- Texas Physical Therapy Association (2015)
PI: Jason B Boyle
Project Title: An investigation of upper limb control adaptability in high functioning Autism spectrum disorder patients

REVIEW WORK

Grant Reviewer

- National Aeronautics and Space Administration (NASA): Human Exploration Research Opportunities (HERO). Sensorimotor Review Panel. Washington, DC. February 18-19, 2020.

Ad Hoc Journal Reviewer

- Experimental Brain Research
- Journal of Motor Behavior
- Journal of Motor Learning and Development
- Perceptual and Motor Skills
- Journal of Sports Sciences
- Frontiers in Psychology
- BMC Neurology

Textbook Reviewer

- Lifelong Motor Development, Gabbard, C. 8th Edition 2020
- Human Motor Development: A Lifespan Approach 2018
- Introduction to Statistics in Kinesiology. Mood, D.P., & Morrow, J.R. 2014

AWARDS

- Outstanding Thesis Mentor, College of Health Sciences, UTEP (2019)
- TAMU College of Education and Human Development Distinguished Honor Graduate (2014)
- TAMU College of Education and Human Development Strategic Fellowship (2013, 2014)

Student Awards

- UTEP College of Health Sciences (2020)
Graduate Student Marshall
Student: Clarissa Diaz
- UTEP Interdisciplinary Health Sciences PhD Program
Graduate Research Associate Award (2018, 2019, & 2020)
Student: Patrick Cereceres
Amount: \$24,000
- UTEP College of Health Sciences (2019)
Outstanding Thesis Award
Student: Alejandra Gamez
- American Kinesiology Association Doctoral Student Award (2018)
Student: Fabricio Saucedo
- UTEP Interdisciplinary Health Sciences PhD Program
Graduate Research Associate Award (2016, 2017 & 2018)
Student: Fabricio Saucedo
Amount: \$24,000

SERVICE EXPERIENCE

University

- UTEP Research Committee 2019 –
- UTEP Faculty Senate
 - Dept. Rehab Sciences (Alternate) 2017 –
 - Dept. Kinesiology 2015 – 2019
- UTEP Graduate Student Research Expo (Faculty Judge) 2015, 2017
- UTEP Graduate School Dodson Research Grant Reviewer 2016 –

College of Health Sciences

- Curriculum Committee 2020 –
- Research Committee (Chair) 2020 –
 - Chair: Infrastructure subcommittee 2018 – 2020
 - Member: Research Committee
 - Scholarship of Engagement and Application subcommittee
- Interdisciplinary PhD Program Executive Council 2015 – 2018
- Web Development & Technology Committee 2013 – 2017

Department of Kinesiology

- Graduate Coordinator: Masters of Kinesiology program 2019 –
- Department of Kinesiology Primary Web Developer 2017 –
- COHS Miner Dash 5K fun run 2014 – 2019
 - Route / Bike pace leader
 - Accounts payable manager 2014
- Professor of Kinesiology, Department Chair search 2020
- Assistant Professor of Exercise Physiology search (Co-Chair) 2018
- State employee charitable campaign (SECC) dept. coordinator 2017
- Assistant/Associate Professor of Biomechanics search (Committee member) 2016, 2017
- Dodson Funds Allocation (Committee member) 2015
- Assistant/Associate Professor of Pedagogy search (Committee member) 2014, 2015
- Miner Madness 3V3 Shootout (Co-Director, Basketball Tournament) 2014, 2015

MENTORSHIP EXPERIENCE

Chair- Interdisciplinary Health Sciences PhD Program

- Patrick Cereceres *current*
Dissertation Topic: Perception to action in children diagnosed with Autism Spectrum Disorder *Doctoral Candidacy Aug 2019

Chair- Doctor of Physical Therapy Program

- Class of 2021: Isabella Acosta, Valerie Favela, Ralph Vargas & Mariel Melchor *current*
Capstone Topic: Upper extremity assessments and therapeutic practices for children with ASD: Literature Review
- Class of 2022: Clarissa Diaz Spring 2020
Capstone topic: Sensory integration and its role in behavioral plasticity in children diagnosed with Autism Spectrum Disorder

- Class of 2020: Madison Green, Haley Bruns, Jon Tye & Nathan Wagner Spring 2020
Capstone Topic: Imagined and actual reach in ASD children
- Class of 2020: Josh Torres, Klarissa Sosa, Andrea Baralt & Michael Durling Spring 2020
Capstone Topic: Online and preplanned movements of action in ASD Children

Chair- Masters Committee

- Saul Soto current
Project topic: Psychological factors and their physiological responses in distance running: A review of the literature
- Victor Gonzalez current
Thesis topic: Encoding of motor programs in children with ASD
- Colton Tune Spring 2020
Project topic: The effects of micro gravity on motor control
- Clarissa Diaz Spring 2020
Thesis topic: Sensory integration and its role in behavioral plasticity in children diagnosed with Autism Spectrum Disorder
- Jallycia Pearson Spring 2020
Thesis topic: Discrete and Cyclical units of action in children diagnosed with Autism Spectrum Disorder
- Dorothy Stewart Spring 2018
Thesis Title: Random, Timed, and Self-paced: How preparation time affects the loading of the body prior to flight in a two-footed forward leap
- Alejandra Gamez Fall 2017
Thesis Title: A Novel Approach to Enhancing Upper Extremity Coordination in Children with Autism Spectrum Disorder
- Julie Howard Spring 2017
Project Title: The use of mobile phone applications for concussions when athletic trainers are not present
- Paulina Sanchez-Barrios Spring 2016
Project Title: Influence of gestational age and/or birth weight on Autism Spectrum Disorders

Chair- Undergraduate Honors Thesis

- Jorge Sanchez Tarango Spring 2017
Thesis Title: Monomelic Amyotrophy: A Current Review of the Literature
- Olivia Kolenc Fall 2015
Thesis Title: A critical review of motor control applications to human factors engineering

Chair- BUILDing Scholars Undergraduate Research

- Ana Solis (New Mexico State University) Summer 2019
Project Title: Upper Extremity coordination in children with Autism Spectrum Disorder

Member- PhD Committee

- Fabricio Saucedo Spring 2020
Dissertation Title: Effects of Controlled Whole-body Vibration Training on Reducing Falls Among Mexican-American Stroke Patients

Member- Masters Committee

- Emily Chavez Summer 2020
Thesis Title: Overground Gait in children with Autism Spectrum Disorder
- Sephonnie Elliss Spring 2020
Project Title: The Effect of Curriculum- and Classroom-Based Physical Activity Breaks on Academic Performance in Elementary School Children in Southern New Mexico
- Heather Vanderhoof Spring 2020
Thesis Title: The Effects of Pregnancy on Balance and Stair Locomotion in Healthy Females
- Jasmin Jenkins Spring 2020
Thesis Title: Muscle Oxygen Saturation and Neuromuscular Responses During Combat Related Tasks at Altitude
- Michelle Galvan Fall 2019
Thesis Title: Neuromuscular Electrical Stimulation: A novel treatment intervention for improving metabolism in an overweight/obese population.
- Katrina Fisher Spring 2019
Thesis Title: The comparison of overground sprint performance across various sprint populations
- Fayon Gonzales Fall 2018
Thesis Title: The comparison of stride length and stride frequency patterns of sprint performance overground vs treadmill
- Selina Uranga Spring 2018
Project Title: Relationship Between Sex Hormone Binding Globulin And Inflammatory and Anti-Inflammatory Cytokines Among Premenopausal Women
- Kelly Harshaw Spring 2018
Project Title: Benefits of Classroom Physical Activity Breaks In School Aged Children
- Anthony Moye Fall 2017
Project Title: Strength and conditioning strategies for athletes with a severe visual impairment
- Micah Baisden Spring 2017
Project Title: Classroom response systems and performance on Examinations and other assessments
- Patrick Cereceres Fall 2016
Thesis Title: Treadmill-based perturbation training for Preventing falls among young adults

- Jeremy Perales Spring 2016
Thesis Title: Comparison of the Effectiveness of Treadmill VS. Overground Sprint Training
- Stacey Bridges Fall 2015
Project Title: Leadership in sports: From theory to application. A guide for coaches
- Kristal Vigil Fall 2015
Project Title: Effects of physical activity on the decrease of fetal macrosomia
- Jennifer Waltz Fall 2015
Project Title: Causal attributions among competitive sport athletes: Thoughts, affective responses, and methods for improving performance
- Jenna Swengros Spring 2015
Project Title: Implications of diverse research findings in the design of internet-based physical activity programs
- Kaitlin Naaktgeboren Fall 2014
Project Title: Growth plate Injuries in adolescent children in sports: A review of Sever's disease

Graduate Independent Studies / Research

- Victor Gonzalez Spring 2020
- Colton Tune Fall 2019
- Dorothy Stewart Spring 2017
- Mohssen Sajjadi (*Electrical & Computer Engineering*) Fall 2016
- Alejandra Gamez Fall 2015
- Julie Howard
- Sergio Guerrero (*Electrical & Computer Engineering*)
- Gary Badley (*Electrical & Computer Engineering*) Spring 2015
- Micah Baisden
- Simon Bejarano
- Frank Sullivant
- Lorin Jeppsen

Undergraduate Independent Studies / Research

- Pearl Quintero Fall 2018
- Daniel Cortes
- Mauricio Calvo
- Lauren Chacon (Building Scholars program) Spring 2017
- Selene Lopez (COURI program)
- Joshua Villalobos
- Jaime Perez (*Electrical & Computer Engineering*)
- Gabriel Galarza (*Electrical & Computer Engineering*)
- Edgar Acosta (*Electrical & Computer Engineering*)

- Julio Lujan (*Electrical & Computer Engineering*)
- Jasmin Jenkins Fall 2016
- Lauren Ortega
- Javier Ornelas (*Electrical & Computer Engineering*) Spring 2016
- Noemi Falcon (*Electrical & Computer Engineering*) Fall 2015
- Kevin Rincon
- Alicia Ables
- Tomiwa Akinbayo Spring 2015
- Oscar Gamez

GEARS Golf Lab Internship

- Lauren Chacon Fall 2016

PROFESSIONAL ORGANIZATIONS

- North American Society for Psychology of Sport and Physical Activity 2011 –
- Motor Control Poster Session Moderator (6/16/2016)
- Society for Neuroscience (SFN) 2012 – 2014
- Sigma Xi -The Scientific Research Society 2012 – 2013
- Human Factors and Ergonomics Society (HFES) 2012 – 2013

PROFESSIONAL WORKSHOPS ATTENDED

- UTEP Team Based Learning Academy 2019
- NMSU Teaching Academy: Ten Easy Ways to Engage Your Students
- CFLD: Maintaining Academic Integrity in the Classroom
- ORSP Grant writing workshop: Preparing the packet 2018
- ORSP Grant writing workshop: The first page
- ORSP Grant writing workshop: Goals, Objectives, Specific Aims
- CFLD: Aligning learning outcomes in Blackboard
- ORSP Grant writing workshop: Unpacking the RFP
- CID: Understanding Blackboard Ally
- CID: Training workshop in iClicker
- College of Health Sciences: Strategic planning faculty retreats
- CID: Introduction to Nano Learning (Universal Design) in the online Environment Workshop 2017
- CID: Blackboard Mobile Learning Design in the online environment
- CFLD: Transforming Classrooms Through Liberating Structures (CFLD Fall Retreat)
- CFLD: The Affinity Research Model
- CFLD: Mentoring Matters Workshop
- Center for Instructional Design (CID): Flip your classroom with office mix
- Center for Faculty Leadership and Development (CFLD): Elements of Successful Assessment Plans

- Academic Technologies Center for Instructional Design: Blackboard: Building Group discussions 2016
- CETaL: Cultivating and maintaining civility in the classroom
- CETaL: Beyond a talking head: Making brief videos that engage students
- Academic Technologies Center for Instructional Design: Blackboard collaborate ultra
- CETaL: Recognizing assets of our students: A QEP inspired conversation
- CETaL: Applying principles of visual communication
- CETaL: Think-Pair-Share: Tools to improve interaction and learning In lectures
- ORSP: Excellence in compliance for research and policy 2015
- National Research Mentoring Network: The importance of culturally responsive mentoring
- CETaL: Excellence in Mentoring
- CETaL: Sun Conference
- Center for Effective Teaching and Learning (CETaL): Fall Retreat 2014