

## **CURRICULUM VITAE**

### **ALBERTO CORDOVA, Ph.D.**

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#### **Education**

- 2008 Ph.D (Motor Neuroscience), Department of Health and Kinesiology, Texas A&M University, College Station, Texas
- 2005 M.S., Department of Health and Kinesiology, Texas A&M University, College Station, Texas
- 2002 B.S., Department of Exercise and Sport Studies, Tarleton State University, Stephenville, Texas

#### **Professional Experiences**

- 2015-Present Associate Professor, UTSA
- 2019-Present Associate Dean for Undergraduate Student Success, UTSA
- 2018-2019 Assistant Dean for Undergraduate Student Success, UTSA
- 2017-2018 Assistant Chair to KHN Department, UTSA
- 2009-2014 Assistant Professor, UTSA
- 2010-2017 Graduate Advisor of Record, Kinesiology, Health and Nutrition Department, UTSA
- 2009-2017 SACSCOC Coordinator for Kinesiology, Health and Nutrition, UTSA.
- 2008-2009 Instructor, Motor Development course, UTSA
- 2006-2008 Instructor, Lifespan Motor Development course, Texas A&M University

#### **Awards and Honors**

- Graduate Diversity Fellowship Award (Texas A&M University, 2005), \$75,000 award
- Travel & Research Grants from the Department of Health and Kinesiology and Sydney and J.L. Huffines Institute for Sports Medicine and Human Performance (Texas A&M University)
- Student Research Week Oral Presentation Award (Texas A&M University, 2006)
- Student Research Week Poster Presentation Award (Texas A&M University, 2005)
- Magna Cum Laude Graduate (Tarleton State University, 2002)
- Honor Graduate for the Physical Education Department (Tarleton State University, 2002)
- Bob Elliott Award: Highest award a student teacher can obtain (Tarleton State University, 2002)

**Research Publications and Forthcoming**

1. Gabbard, C., **Cordova, A.**, & Ammar, D. (2007). Estimation of reach in peripersonal and extrapersonal space. *Developmental Neuropsychology*, 32(3), 749-756.
2. Gabbard, C., **Cordova, A.**, & Lee, S. (2007). Examining the effects of postural constraints on estimating reach. *Journal of Motor Behavior* 29(4), 242-246.
3. Gabbard, C., & **Cordova, A.** (2008). Estimating reach via visual imagery and motor imagery. *Journal of Imagery Research in Sport and Physical Activity*, 3(1), 1-12.
4. Gabbard, C., Cacola, P., & **Cordova, A.**, (2008). Does general motor imagery ability (via questionnaire) predict estimation of reachability in children? *Journal of Imagery Research in Sport and Physical Activity*, 3(1), 13-24.
5. Gabbard, C., Cacola, P., & **Cordova, A.** (2009). Examining psychological constraints in estimating reach via motor imagery. *Journal of Mental Imagery*, 33, 49-62.
6. Gabbard, C., Ammar, D., & **Cordova, A.**, (2009). Testing the distinctiveness of visual imagery and motor imagery in a reach paradigm. *International Journal of Neuroscience* 119 (3), 353-365.
7. Gabbard, C., **Cordova, A.**, & Lee, S., (2009). A question of intention in motor imagery. *Consciousness and Cognition*, 18, 300-305.
8. Gabbard, C., **Cordova, A.**, & Lee, S., (2009). Do children perceive postural constraints when estimating reach (motor planning)? *Journal of Motor Behavior*, 41(2), 100-105.
9. Gabbard, C., Cacola, P., & **Cordova, A.** (2009). Is perceived motor competence a constraint in children's action planning (estimating reach)? *Journal of Genetic Psychology*, 170(2), 151-158.
10. Gabbard, C., Cacola, P., & **Cordova, A.** (2011). Is there an advanced aging effect on the ability to mentally represent action? *Archives of Gerontology and Geriatrics*, 53, 206-209.
11. **Cordova, A.** & Gabbard, C. (2011). Children's Visual Processing of Egocentric Cues in Action Planning for Reach. *Journal of Cognition and Development*, 12 (2), 222-238.
12. **Cordova, A.** & Gabbard, C. (2012). Children's use of allocentric cues in visually- and memory-guided reach space. *International Journal of Behavioral Development*, 36(2), 93-98.
13. Yao, W.X., DeSola, W., Hart, C., **Cordova, A.**, & Yan, A.F., (2012). The effect of variable practice on wheelchair propulsive economy: An implication for rehabilitation of wheelchair stricken individuals. *European Journal of Physical and Rehabilitation Medicine*, 48, 209-216.
14. **Cordova, A.** & Gabbard, C., & Cacola, P. (2012). Visual Landmarks and Response Delay on Estimates of Reachability. *Perceptual and Motor Skills & Ergonomics*, 115(2) 535-543.

15. Yin, Z., Parra-Medina, D., **Cordova, A.**, He, M., Trummer, V., Sosa, E., Gallion, K.J., Sintes-Yallen, A., Huang, Y., Wu, X., Acosta, D., Kibbe, D., & Ramirez, A. (2012). Míranos! Look at Us, We Are Healthy! An Environmental Approach to Early Childhood Obesity. *Childhood Obesity*, 8(5), 429-439.
16. Gabbard, C., & **Cordova, A.** (2012). Effect of visual field presentation on action planning (estimating reach) in children. *Journal of Genetic Psychology: Research and Theory on Human Development*, 173(3) 302-316.
17. Gabbard, C., & **Cordova, A.** (2013). Association between imagined and actual functional reach (FR): A comparison of young and older adults. *Archives of Gerontology and Geriatrics*, 56(3), 487-491. Doi 10.1016/j.archger.2012.12.008.
18. Ammar, D., Acevedo, G.A., & **Cordova, A.** (2013). Affordances in the Home Environment for Motor Development: A cross cultural study between American and Lebanese Children. *Child Development Research*, 1-5. DOI 10.1155/2013/152094.
19. Yao, Y., **Cordova, A.**, Huang, Y. Yang, Y., & Lu, X. (2014). Bilateral transfer for learning to control timing but not for learning to control fine force. *Perceptual & Motor Skills*, 118(2), 400-410.
20. Park, S.W., Brennenman, M., Cooke, W.H., **Cordova, A.**, & Fogt, D. (2014). Determination of anaerobic threshold by heart rate variability using discontinuous cycle ergometry. *International Journal of Exercise Science*, 7(1), 45-53.
21. \*Figueroa-Bautista, R., Sosa, E., **Cordova, A.**, \*Wilmoth, S., He, M & \*Wu, S. (2014). Health community and obesity prevention in Hispanic communities: A qualitative exploration of media's role. *Journal of Research in Obesity*, 2014, 1-18. DOI: 10.5171/2014.
22. **Cordova, A.**, & Gabbard, C. (2014). Do older adults perceive postural constraints for reach estimation? *Experimental Aging Research*, 40(5), 578-588. DOI 10.1080/0361073X.2014.956627.
23. Ammar, D., & **Cordova, A.** (2014). HIV/AIDS in Lebanese prisons: Challenges and proposed actions. *International Journal of Prisoner Health*, 10(3), 147-154. DOI: <http://dx.doi.org/10.1108/IJPH-08-2013-0042>.
24. He, M., Sosa, E., **Cordova, A.**, \*Wilmoth, S., \*Bustos, D., \*Perez, A., & Yin, Z. (2015). Effects of healthy eating promotion on food preference of Head Start Preschoolers. *IBIMA*, 2015. DOI: 10.5171/2015.830827
25. Land, W.M., \*Binya, B., **Cordova, A.**, Wang, Y., & Yao, W. (2016). Effects of physical practice and imagery practice on bilateral transfer in learning a sequential tapping task. *PLOS ONE*, 11(4), e0152228, DOI: 10.1371.
26. \*Mendez-Azuela, D., Fox, A., **Cordova, A.**, & Gabbard, C. (2018). Using motor imagery training to improve reach estimation in the elderly: Implications for reducing fall risk. *Gerontology & Geriatrics Studies*. 1-5.
27. \*Garcia, S., Yao, W., **Cordova, A.**, Land, W. (2018). The impact of outcome estimation specificity on motor practice and learning. *International Journal of Sports Physiology and Performance*.
28. **Cordova, A.**, \*Gandhi, A., Land, WM., Yang, ZQ., Wang, HS., Peng, KZ., Oyama, S., Huang, YF., \*Camargo, E., & Yao, WX. (2020). Bilateral transfer in force control is affected by the exercise load weight: An implication for rehabilitation of stroke patients. *Annals of Clinical Medicine and Research*, 1(2).

29. \*Li, S., Howard, J., Sosa, E., **Cordova, A.**, Parra-Medina, D., & Yin, Z. (2020). Calibrating Wrist-worn accelerometers for physical activity assessment in preschoolers: Machine learning approaches. *JMIR Formative Research*, 4(8). DOI: 10.2196/16727.
30. \*Carmichael, S., **Cordova, A.**, & Guerra, N. (In review, January 2022). My auto-ethnographic study: A summer research internship experience. *Journal of Student Success and retention*.
31. Buchanan, J., & **Cordova, A.** (2022). Individual goals interact with dyad goals to constrain and facilitate the formation of interpersonal patterns of coordination. *Human Movement Science*, 82.
32. Mahmud, R\*,. Stewart, M\*,. **Cordova, A.**, Quarles, J. (2022). Auditory feedback for standing balance improvement in virtual reality. *IEEE Conference on Virtual Reality and 3D User Interfaces (VR)* 782-791, doi: 10.1109/VR51125.2022.00100.
1. Mahmud, R\*,. Stewart, M\*,. **Cordova, A.**, Quarles, J. (2022). Auditory feedback to make walking in virtual reality more accessible. *ISMAR IEEE Transactions on Visualization and Computer Graphics*.
33. Mahmud, R\*,. Stewart, M\*,. **Cordova, A.**, Quarles, J. (2022). Standing balance improvement using vibrotactile feedback in virtual reality *ISMAR IEEE Transactions on Visualization and Computer Graphics*.

\*denotes student work (undergraduate/graduate)

### **Chapter Review**

- Lifelong Motor Development (5<sup>th</sup> edition). Carl Gabbard. Pearson. Chapter 7 and 8 (01/2010).
- Motor Behavior. Jeffrey Ives. Lippincott Williams and Wilkins. (Chapters 6-8; 10/ 2011).
- Motor Behavior. Jeffrey Ives. Lippincott Williams and Wilkins. (Chapters 1-4; 01/ 2012).
- Research Methods in Kinesiology. Susan Hall.(2012).
- Kinesiology: A Modern and Integrated Approach Chapters 7 & 8.

### **Review Editor**

Frontiers in Psychology (2017-Present)  
Cogent Medicine (2018-Present)

### **Article Review**

- Brain and Cognition (October 2012). Aging in movement representations for sequential finger movements: A comparison between young, middle-aged, and older adults.

- Research Quarterly for Exercise and Sport (October 2012). Motor skill learning in children: Comparison between mental and physical practice.
- Research Quarterly for Exercise and Sport (February 2013). Effect of specific vs. variable training upon overhead throwing speed in children.
- Perceptual and Motor Skills (December 2013). Motor proficiency predicts accuracy in reach estimations via motor and visual imagery in children.
- Consciousness and Cognition (January 2014). Examining intention in simulated actions: Are children and young adults different?
- PLOS ONE (January 2014). Working memory capacity and postural control.
- Annual Research & Review in Biology (April 2014). The effect of selected group physical exercises on the perceptual-motor skills in children with autism.
- Developmental Science (November 2015). Action Imagination and Perception Develop Independently in Late Childhood and Adolescence.
- Annual Research & Review in Biology (November 2015). The Effect of Selected Group Physical Exercises on the Perceptual- Motor Skills in Children with autism
- International Journal of Exercise Science (October 2015). A Bayesian Inference Comparing Collegiate Female Cyclists to Elite Female Cyclists from a Meta-Analysis.
- Frontiers (November 2015). Effects of yoga on motor ability, physical self-concept, anxiety, and executive function in primary school-aged children – a feasibility study.
- Attention, Perception, & Psychophysics (July 2015). Task-Specific and Unspecific Reaction Times in Experienced Team Handball Goalkeeper and Novices.
- Health Promotion Practice (February 2016). A qualitative study of participant engagement with a weight loss intervention.
- International Journal of Exercise Science (March 2016). Relationships between motor coordination and academic achievement in middle school children.
- Frontiers in Psychology-Movement Science and Sport Psychology (March 2016). Video training designed to improve teammate identification (TM-ID) in sports people.
- Frontiers in Psychology-Movement Science and Sport Psychology (April 2016). Cardiorespiratory fitness is associated with executive function in late-middle-aged adults An event related (De)synchronization (ERD/ERS) study.
- Frontiers in Movement Science and Sport Psychology (May 2016). Obesity, Cardiovascular Fitness, and Neurocognitive Function: An Electrophysiological Study.
- Health Promotion Practice (May 2016). A qualitative study of participant engagement with a weight loss intervention.
- Parkinson's Disease (June 2016). What factors affect cognition of the maximal reach distance in Parkinson's disease?
- Child Development Research (June 2016). Differences between estimation and real performance in school age children: fundamental movement skills
- Frontiers Movement Science and Sport Psychology (May 2017). Working memory capacity limits motor learning when implementing multiple instructions.

- Cogent Psychology (October 2017). Physical Activity, Academic and Developmental measures in older Primary School-children: A principal components analysis. Cogent Psychology 2017-0167.
- Frontiers Psychology Movement Science and Sport Psychology (October 2017). Is brain-derived neurotrophic factor the best biomarker of voluntary motor performance fatigue?
- Perceptual and Motor Skills (2018). The effect of eight weeks' modified darts training on the throwing success of children with visual impairment. (January 2018).
- Perceptual and Motor Skills (2018). Mathematics and physical motor expression: A study with children in pre-school at the level of time in task execution.
- International Journal of Exercise Science (2018). Effects of Changing the Focus of Attention on Accuracy, Acceleration, and Electromyography in Dart Throwing.
- Perceptual and Motor Skills (2018). Reaction time in preschool children by Ruler Drop Test: A cross-sectional study providing reference values.
- Journal of Motor Behavior (2018). Atypical Y-Balance test performance and leg muscle activations of children with developmental coordination disorder.
- Frontiers Psychology Movement Science and Sport Psychology (2018). Personality traits and vitamin D3 supplementation affect mood state 12 hours before 100km ultramarathon run.
- Cogent Medicine. (2018) A comparison of the visual perceptual processing skills of children (6-10 years old) with and without Human Immuno-Deficiency Virus (HIV) using the Test of Visual Perceptual Skills-3rd edition (TVPS-3) in Harare, Zimbabwe.
- Cogent Medicine. (2019) Pilot testing of a 9-week martial arts training programme and a screening tool on dynamic standing postural stability.
- Frontiers Psychology. (2019) Mental practice ability among stroke-survivors: Associations with gender and age. Frontiers in Psychology, Movement Science and Sport Psychology.
- Frontiers Psychology. (2019). A golden age for motor skills learning? –Learning of an unfamiliar motor tasks in 10-year-olds, adolescents, and adults. Frontiers in Psychology, Movement Science and Sport Psychology.
- International Journal of Exercise Science (2020) Motor Behavior literature fails to translate: A preliminary investigation into coaching and focus of attention in recreational distance runners. WKU
- Journal of Motor Behavior (2020). Probing the effect of block duration on corticospinal excitability during motor imagery performance.

### **Scholarly Presentations**

#### **National/International**

- **Cordova, A., Gabbard, C.P., & Ammar, D.F.** (June, 2006). Estimating reach (motor cognition) among 6-year-olds. (NASPSPA), Denver, Colorado.

- Gabbard, C.P., & **Cordova, A.** (April, 2007). RC grant findings: Exploring the cognitive level of action processing for estimating reach in young children. (AAPHERD), Baltimore, Maryland.
- **Cordova, A.,** & Gabbard, C. (June, 2007). A developmental view of action processing via estimation of reachability. (NASPSPA), San Diego, California.
- **Cordova, A.,** & Buchanan, J.J. (June, 2007). Interpersonal coordination with and without the intention to synchronize actions. (NASPSPA), San Diego, California.
- **Cordova, A.** Gabbard, C. (November 2008). Exploring motor cognition in children via reaching. Research Imaging Center. University of Texas Health Science Center at San Antonio, TX
- **Cordova, A.** Gabbard, C., & Lee, S. (June 2008). Does perceived postural constraint affect reach estimation?: A developmental view. (NASPSPA), Niagara Falls, Ontario, Canada.
- Cacola, P., Gabbard, P., & **Cordova, A.** (June 2008). Does perceived motor ability influence perceived reachability in children: (NASPSPA), Niagara Falls, Ontario, Canada.
- Cordova, A. (January, 2009). A developmental view of action processing via estimation of reachability. Children's Summit II. San Antonio, Texas.
- Gabbard, C., & **Cordova, A.** (April, 2008). Estimation of reach in peripersonal and extrapersonal space: A Developmental view. Research Consortium (AAHPERD), Ft. Worth, Texas.
- **Cordova, A.,** Gabbard, C., Cacola, P., & Lee, S. (April, 2009). The role of actual (physical) ability in estimating reach. Research Consortium (AAHPERD), Tampa. *Research Quarterly for Exercise and Sport*, 80(1) supplement, A-46.
- Gabbard, C. , **Cordova, A.** & Lee, S., (June, 2009). Effect of task constraints on planning reach actions in children. NASPSPA annual convention, Austin. *Journal of Sport and Exercise Psychology*, 31 (supplement), s31.
- **Cordova, A.,** & Gabbard, C. (June, 2009). Children's visual processing of egocentric cues in action planning for reach. NASPSPA annual convention, Austin. *Journal of Sport and Exercise Psychology*, 31 (supplement), s29.
- Gabbard, C., & **Cordova, A.** (June, 2009). Examining an underlying problem for children with DCD – forming an Action representation. DCD VIII International Conference Baltimore, MD.
- **Cordova, A.** & Gabbard, C. (March, 2010). Children's use of visual information in planning reach actions. AAPHERD Annual Convention. Indianapolis, Indiana.
- Gabbard, C., **Cordova, A.,** & Caçola, P., (2010). Is there an advanced aging effect on the ability to mentally represent action? (NASPSPA), Tucson, Arizona.
- **Cordova, A.** & Gabbard, C. (2010). Children's use of allocentric cues in peripersonal and extrapersonal reach space. (NASPSPA), Tucson, Arizona.
- Adeigebe, R., Acosta, D., **Cordova, A.,** & Yin, Z. (2010). A preschool aged obesity prevention Project designed to increase moderate to vigorous physical activity. . (Texas Obesity Research Center). Houston, Texas.
- Carpenter, K., Davidson, T., **Cordova, A.,** & Yin, Z. (2010). Mixed high-fat and stock diet caused a greater increase in body mass than high-fat diet alone. (Texas Obesity Research Center). Houston, Texas.

- **Cordova, A.** (2010). Study of motor development: Past present and future. Beijing Sport University. Beijing, China.
- **Cordova, A.** (2010). A developmental systems approach to the study of motor development. University of Texas at San Antonio.
- **Cordova, A.** (January 2011). A developmental systems approach to the study of motor development. University of Texas at San Antonio.
- **Cordova, A.** (2011). The effects of staying active in the golden years. (Texas Community College Teachers Association and Texas Community College Association). San Antonio, Texas.
- **Cordova, A** and Gabbard, C. (2011). Children's use of visual field information in actin planning (NASPSPA).
- Yao, W.X., **Cordova, A.**, Moore, J., Zenong, Y., and Liu, B. (2012). Generalized motor program sand parameters are different in intermanual transfer rates for a learned sequential motor skill (NASPSPA).
- **Cordova, A.** (March 2012). Staying Alive! Staying Alive! Tips on staying healthy and fit as an aging educator (Texas Community College Teachers Association and Texas Community College Association). Frisco, Texas.
- **Cordova, A.** & Gabbard, C. (June 2012). Ability of elderly persons to estimate reach distances in different postural conditions (NASPSPA).
- **Cordova, A.** & Ammar, D. (June 2012). Affordances in the home environment for motor development: A cross-cultural study. (NASPSPA).
- **Cordova, A.** (October 2012). The learner + Experiences = Brain Development. Bowling Team (NISD).
- **Cordova, A** (November 2012). Motor Cognition and Reaching. UTSA-Invited talk for Dr. Nicole Wicha Lab.
- Park, S.W., Brenneman, M.T., Cooke, W.H., **Cordova, A.**, & Fogt, D.L. (2013). Determination of Anaerobic Threshold by Heart Rate or Heart Rate Variability using Discontinuous Cycle Ergometry. International Journal of Exercise Science.
- **Cordova, A.**, Ammar, D., & Gabbard, C. (2013). Does type of feedback affect movement planning? (NASPSPA, New Orleans, Louisiana).
- **Cordova, A.**, Ammar, D. (2013). Mental transformation: A case of seeing and doing. (NASPSPA, New Orleans, Louisiana).
- Lee, J., Gabbard, C., & **Cordova, A.** (2013). Differences in simulated and executed functional reach during adulthood: A test of movement representation. (NASPSPA, New Orleans, Louisiana).
- **Cordova, A.**, Ammar, D. (2013). Locus of control and mental health: A random probability sample in Texas. (NASPSPA, New Orleans, Louisiana).
- **Cordova, A.**, Ammar, D. (2013). Does Physical Activity Affect Academic Performance Among a Sub-Sample of Lebanese Youth? (NASPSPA, New Orleans, Louisiana).
- Wan, Yao, **Cordova, A.**, & Yan, A. (2013). Bilateral transfer in tapping tasks. (NASPSPA, New Orleans, Louisiana).
- **Cordova, A.**, Ammar, D., & Gabbard, C. (June, 2006). The use of interference effects to delineate differences in visual and motor imagery in estimating reach. (NASPSPA), Denver, Colorado.



- Park, S.W., Brenneman, M.T., Cooke, W.H., **Cordova, A.**, & Fogt, D.L. (2013). Determination of anaerobic threshold by heart rate variability using discontinuous cycle ergometer. *International Journal of Exercise Science: Conference Abstract*.
- Adeige, R.T., Acosta, D., **Cordova, A.**, Ma, Y., & Yin, Z. (2014). A preschool aged obesity prevention project designed to increase moderate to vigorous physical activity. *International Journal of Exercise. Conference Abstract*
- Gabbard, C., & **Cordova, A.** (2014 June). Do older adults perceive postural constraints when planning reach movements?. NASPSPA annual convention, Minneapolis, *Journal of Sport and Exercise Psychology*, 37(supplement), Sxx.
- **Cordova, A.**, Johnstone, J., & Ramon, M., (June, 2014). Does physical activity improve reading readiness in Kindergarteners? NASPSPA annual convention, Minneapolis, *Journal of Sport and Exercise Psychology*, 37(supplement), Sxx
- **Cordova, A.**, & Acevedo, G.A. (2014 June). Physiological desensitization and violent video games: Is there an ecological buffer?. NASPSPA annual convention, Minneapolis, *Journal of Sport and Exercise Psychology*, 37(supplement), Sxx.
- Acevedo, G.A., **Cordova, A.**, & Ammar, D. (August, 2014). Physiology or Perception in Texas? Assessing the Impact of Physiological and Attitudinal Measures of Body Weight on Mental Health. American Sociological Association annual convention, San Francisco, CA.
- **Cordova, A.**, Mendez-Azuela, D., Fox, A., & Gabbard, C. (2015 June). Use of mental imagery strategies to reduce fall risk in the elderly. NASPSPA annual convention, Portland, Oregon. *Journal of Sport and Exercise Psychology*, (supplement), 84.
- **Cordova, A.**, Dunn, M., (2015). Remapping space in a virtual environment. TRIO, McNair Scholar Program.
- **Cordova, A.**, (2016). Developmental Motor Cognition: Understanding the developmental nature of motor planning. New Mexico Highlands University Seminar.
- Camargo, E., Land, W., Yao, W., & **Cordova, A.** (2016). Pupil dilation, motor imagery, and cognitive load. UTSA Research Experience Lecture Series.
- **Cordova, A.** (2017). Lifelong Human Development. Beijing, China. Lecture Series.
- Land, W., Garcia, S., **Cordova, A.**, & Yao, W. (2018). The effect of outcome estimation specificity on motor practices. NASPSPA annual convention, Denver, Colorado. *Journal of Sport and Exercise Psychology*, (supplement).
- **Cordova, A.**, Camargo, E., Land, W., & Yao, W. (2018). Pupil dilation, motor imagery, and cognitive load. NASPSPA annual convention, Denver, Colorado. *Journal of Sport and Exercise Psychology*, (supplement).

### **UTSA Presentations**

- **Cordova, A.** (2017). No bones about it. Lunch and Learn Series.

### **Grant Activities**

#### **Funded**

- NSF CHS Small: Enabling Accessibility of Reality for Persons with Balance Impairments; 7/21/2020- 6/03/2023; (Co-PI; 50% effort, \$497,121).
- UTSA Libraries Adopt a Free Textbook; 2018-2019; \$2,000.
- Remapping space: A comparison between young and older adult. COEHD Faculty Research Award. (PI, \$4,992 June 2015).
- Physiological Desensitization and Violent Video Games: Is there an Ecological Buffer? CRSGP Seed Grant (PI, \$22,220; March, 2013).
- The effects of antecedent exercise on reducing stereotypy in children with autism. COEHD Faculty Research Award. Co-PI, \$4,256.00).
- Motor imagery in children with developmental coordination disorder. (PI). COEHD Faculty Research Award. \$3,579.00-direct cost. 2012.
- The ability to mentally represent action in the golden years. (PI). COEHD Faculty Research Award. \$5,628 direct cost. Submitted 2011.
- Get Health Together (SALSI and the International Life Science Institute Research Foundation-Washington, DC - Funded \$250,000-Co-Investigator 2010 1<sup>st</sup> phase;).
- Motor Ideation in Children: Exploring the Cognitive Level of Action Processing.” Research Consortium (AAPHERD Funded 2005)

*Not Funded or Submitted*

- Clustered & Connected Hiring Program: Proposal for Immersive Technologies, UTSA. 2019
- Optimal Psychophysiological States during Police Officer Use-of-Force Scenarios: A Multiple Case Study Analysis (Co-PI, \$5,000; UTSA VPR Office, February 2018).
- CHS: Small: Enabling Accessibility of Virtual Reality for Persons with Balance Impairments (Co-PI, \$ 499658; National Science Foundation; November 2018).
- Enabling accessibility of virtual reality for persons with balance impairments. (Co-PI, \$495,065, NSF, November 2017).
- Enhancing officer decision making: Efficacy of performance and recover optimization (PRO) training and the use of biofeedback wearable devices. (Co-PI, \$424,625, National Institute of Justice, U.S. Department of Justice., March 2017).
- Virtual reality training for upper limb amputee (Co-PI, \$50,000, I/UCRC, 2017)
- Mentored and guided intern students at difference site locations Motor Cognition Among Elderly. American Federation of Aging Research. (PI, \$73,861; December, 2012). Mental Planning and Post-stroke Depression. Hogg Foundation for Mental Health (PI, \$19,248; January 2013).
- Exergaming Among Hispanic Youth; Robert Wood Johnson Foundation: Active Living Research: Building Evidence to Prevent Childhood Obesity; Rapid Response Round 3. (Co-Investigator, \$144,570; 2011).

- Active Gaming Research Clinic. San Antonio Area Foundation. (Co-I. \$26,522, 2011).
- Neuroimaging during Mentally Simulated Motor Actions in Children with Developmental Coordination Disorder (PI). R21-NIH-NICHD-\$275,001.
- Testing Cerebral Blood Flow and Motor Imagery Tasks in Young Children (PI). (NIH-AREA R15 \$250,000) Submitted 02/2010.
- Novel use of Noninvasive Diagnostic Tool for Determination of Human Fatigue. (NIH-AREA R15 \$250,000) Submitted 02/2010.
- Examining Action Representation in Children with Developmental Coordination Disorder (PI-Submitted as NIH subcontract with Texas A&M-Not Funded 2009).
- Exploring Vulnerabilities and Resiliencies in Lebanese Children Post-War. Dohan International Institute for Family. (February 2012). Direct cost \$16,150.
- Efficacy of Imagery on Estimation and Actual Function Reach in the Elderly (Co-PI; Re-submission: November 2012). NIH R21 \$68,025 Subcontract.
- Efficacy of Imagery Training on Estimation and Actual Functional Reach in the Elderly (Co-PI). NIH-MRS R21 \$300,000 direct cost. Submitted October 2011.
- Mentally Simulated Motor Actions in Children with Developmental Coordination Disorder (PI). SC2-NIH-NICHD-\$300,001 direct cost. Submitted 10/2011.

### **Teaching Activities**

#### **Courses Taught**

- Motor Development (Undergraduate)
- Motor Learning and Control (Undergraduate)
- Internship in Kinesiology (Undergraduate)
- Research Methods (Graduate )
- Motor Development (Graduate)
- Current Trends (Graduate)

### **Graduate Student Advisory Committees**

- Committee Member: Masters and Doctoral
  - Rasel Mahmud (2021)
    - VR and Feedback
  - Michael Stewart (2021)
    - Augmented Feedback and Reaching
  - Remington Angel (2021)
    - Perception and intention
  - Tanvir Irfan Chowdhury (2019)
    - Dissertation title: Improving virtual reality rehabilitation through reverse disability simulation for people with disabilities.
  - Shiyu Li (2019)

- Calibration and validation of wrist-worn accelerometers in preschoolers
- Sharif Mohammad Shahnewaz Ferdous (2017)
  - Dissertation title: Postural stability of people with balance impairments in virtual and augmented reality.
- Audrey Ramirez (2017)
  - Honors Thesis title: Shoulder elevation in manual wheelchair users and able-bodied individuals throughout the day (Committee Member).
- Elena Camargo (2016)
  - Thesis title: Cognitive load and pupil size
- Kevin Richards (2016)
  - Thesis title: Quiet eye: The influence of motor priming during a ball tossing task.
- Liuwenxi (2016)
  - Thesis title: Exploring the effects of vigorous physical activity on adiposity and cardiorespiratory fitness between high-adiposity and low-adiposity children.
- Sunny Garcia (2015).
  - Thesis title: Error prediction specificity: Influence on motor learning and performance.
- Josiah Johnson (2015)
  - Dissertation title: The relationship between physical activity and verbal behavior in children with Autism Spectrum Disorder.
- Aashika Gandhi (2013)
  - Thesis title: The bilateral transfer of force control in a sequential task is affected by its intensity
- SW. Park (2013)
  - Determination of anaerobic threshold by heart rate variability using discontinuous cycle ergometer.
- Masi Soujoudikelaki (2013)
  - The relationship between the ground reaction force characteristics and ball velocity in High School baseball pitchers.
- Binya Liu: (2012)
  - Thesis title: Physical training and motor imagery training on intermanual transfer.
- Roger Figueroa: (2012)
  - Thesis title: Perception and media-related intervention strategies to address obesity among Hispanic communities.

### **Service**

#### **Department Service**

- Assistant Chair to the Kinesiology, Health and Nutrition Department, UTSA 2017-2018.

- Graduate Advisor of Record, Department of Health and Kinesiology, University of Texas at San Antonio, 2009- 2017.
- Member: Search Committee (Generalist), Department of Health and Kinesiology, University of Texas at San Antonio, 2018-2019; Fall 2018
- Chair of ByLaws Task Force. 2013-2017.
- Member-Coordinator: Student Learner Outcome Committee, (Southern Association of College and School-SACS), Department of Health and Kinesiology, University of Texas at San Antonio, 2009-2017.
- Position Search Committee Member Dietetics Position. 2014-2015.
- Chair of Pedagogy/Adapted Physical Activity Search Committee. 2013-2014.
- Member: Academic Policy and Curriculum, Department of Health and Kinesiology, University of Texas at San Antonio, 2010-2012.
- Parliamentarian: Health and Kinesiology Department, University of Texas at San Antonio, 2010.
- Member: Curriculum Task Force, Department of Health and Kinesiology, University of Texas at San Antonio, 2008-present
- Member: Search Committee (Biomechanics), Department of Health and Kinesiology, University of Texas at San Antonio, 2009-2010; Fall 2012-.
- Hosted: COEHD High School Tours. November 2010.
- Member Lead Contact: Bylaws Task Force, Department of Health and Kinesiology, University of Texas at San Antonio, 2009-2011.

#### College Service

- Associate Dean for the College for Health, Community and Policy, UTSA 2019-Present.
- HCAP UGAR Council Chair 2019-Present
- HCAP Undergraduate Curriculum Committee Chair 2019-Present
- Assistant Dean to the College of Education and Human Development, UTSA 2018-2019.
- College Service: Invited Panel Representative: Promotion and Tenure, January 14, 2016.
- COEHD Research Colloquium Judge: Research judge over the undergraduate, graduate, and doctoral level research and dissertations posters. 2013.
- COEHD Reviewer of the Seed Grant Program by the Office of Vice President for Research. December 2013-January 2014.
- COEHD Faculty Research Award Committee. Nov-December 2013.
- COEHD Research Colloquium Judge: Research judge over the undergraduate, graduate, and doctoral level research and dissertations posters. 2012.
- Member: COEHD Faculty Research Award. University of Texas at San Antonio, 2011- 2018.

#### University Service

- Committee Member, Tactical Team 5, UTSA, 2020-Present
- Committee Member, AIS Task Force, UTSA, 2020-Present

- Committee Member, Behavior Intervention Team, UTSA, 2020-Present
- Committee Member, Aspire IChange Task Force, UTSA, 2019-Present
- Member, Texas Academic Leadership Academy, 2020-Present
- Point of Contact for Faculty Champions Chair-HCaP 2020-Present
- Becoming a Mentor at UTSA June 2020 Cohort
- Committee Member, Faculty Grievance Committee, UTSA, 2019-2021
- Faculty Advisor for Kappa Delta Pi, Omicron Chi Chapter; UTSA 2018-Present
- Faculty Advisor for Oak Hills Church Young Adults at UStA-2019-Present
- Faculty Advisor for Destino 2019-Present
- Faculty Advisor for ACE Mentors, UTSA 2018-Present
- SHA(PE); Director of PE (Homeschool) Program; San Antonio, TX 2010-Present
- Committee member, Classroom2Career Task Force. President's Initiative, 2018-Present
- Academic Student Support Standing Committee, 2019-Present.
- Associate Dean Council, 2018-Present
- University: Graduate Council Committee Member: Representative for the Health and Kinesiology Department. 2012-2017.
- University: FAME Reviewer 2014-Present