



Qin (Arthur) Zhu

Professor of Motor Behavior

Email: qzhu1@uwyo.edu

Office:

Corbett Building 114A
Division of Kinesiology and Health
University of Wyoming
Laramie, WY 82071
Phone: 307-766-3662

Lab:

Corbett Building 159
Division of Kinesiology and Health
University of Wyoming
Laramie, WY 82071
Email: wypacelab@gmail.com

Career Objective:

- An erudite scholar of movement science
- An ardent proponent of active and healthy living

Education:

- **PhD** in *Human Performance*, minor in *Experimental Psychology* (2008)
Department of Kinesiology, **Indiana University**
Advisors: Dr. John B. Shea & Dr. Geoffrey P. Bingham
Dissertation Title: *Learning Affordance for Maximum Distance Throws in the Context of Learning to Throw*
- **M.Ed** in *Exercise Science* (2002)
Graduate School, **Shanghai University of Sport**
Advisor: Dr. Jian-Cheng Zhang & Dr. Dan-Ping Chen
Thesis Title: *Study of Selective Attention in Playing Badminton using Spatial Occlusion*
- **B.S** in *Coaching Education* (1999)
Department of Coaching and Physical Education, **Shanghai University of Sport**
Advisor: Dr. Jin-Biao Dai
Honor Paper Subject: *Study of Sport-Specific Speed in Badminton*

Professional Experience:

- 2024 August – present: Interim Director, Division of Kinesiology and Health, *University of Wyoming*
- 2019 – present: Professor and Director of UW PACE lab, Division of Kinesiology and Health, *University of Wyoming*

- 2018 – present: International Program Coordinator, Division of Kinesiology and Health, *University of Wyoming*
- 2014 – 2019: Associate Professor and Director of UW Perception-Action-Cerebral-Executive (PACE) Laboratory, Division of Kinesiology and Health, *University of Wyoming*
- 2008 – 2014: Assistant Professor and Director of UW Perceptual-Motor Behavior Laboratory, Division of Kinesiology and Health, *University of Wyoming*
- 2007 Jan – May: Adjunct Faculty, Department of Kinesiology, *Indiana University at Bloomington*
- 2003 – 2007: Research Assistant in Perception and Action Laboratory, Department of Psychological & Brain Science, *Indiana University at Bloomington*
- 2002 – 2006: Associate Instructor and Research Assistant in Motor Learning and Control / Ergonomics Laboratories, Department of Kinesiology, *Indiana University at Bloomington*
- 2000–2002: Associate Instructor and Research Assistant, Department of Coaching and Physical Education, *Shanghai University of Sports*

Awards & Honors:

- 2023, November 1: UW News Highlight: *UW Researcher Explores Home-Based Telehealth Webcam Setup to Measure Joint Range of Motion*
<https://www.uwyo.edu/news/2023/11/uw-researcher-explores-home-based-telehealth-webcam-setup-to-measure-joint-range-of-motion.html>
- 2023, April 17: University of Wyoming Global Engagement Office *Recognition of Faculty for Extraordinary Efforts at Internationalization*
- 2023, February 8: University of Wyoming *2023 Education Abroad Curriculum Integration Advising Fellow* (with Alisa Siceloff)
- 2022 – 2023: University of Wyoming Presidential Fellowship Awardee on the project of *Extending the International Reach of UW Kinesiology and Health Program*
- 2022, October 31: Cosmos Science Magazine featured an article entitled: *Vertical dancers, like astronauts, are better at judging upside-down movement – If you hang around at weird angles, your vision at weird angles improves*
<https://cosmosmagazine.com/health/vertical-dancers-movement/>
- 2022, October 28: UW News Highlight: *UW Undergraduate’s Research Leads to Invention of Technology for Telerehabilitation*
<http://www.uwyo.edu/uw/news/2022/10/uw-undergraduates-research-leads-to-invention-of-technology-for-telerehabilitation.html>
- 2021 – 2022: University of Wyoming Academic Affairs Faculty Fellow:
<http://www.uwyo.edu/AcadAffairs/academic-personnel/chairs/fellows/index.html>
- 2019/8/1: *Xinhua North America* featured a story entitled “[Remote U.S. university secures powerful Chinese sports connection](#)” based on an interview conducted at the Division of Kinesiology and Health at the

University of Wyoming on July 23, 2019.

- 2016: Public media attention on the research article “*A dynamical analysis of the suitability of prehistoric spheroids from the Cave of Hearths as thrown projectiles*” published in *Scientific Reports*:
 - UW News, “[UW Professor Determines Prehistoric Stone Objects May Have Served as Hunting Weapons](#)”, August 17, 2016
 - The Huffington Post, “[So That’s What Those Stone Age ‘Spheroids’ Were For](#)”, August 19, 2016
 - Wyoming Public Radio, “[Prehistoric Stones Used As Weapons, UW Professor Finds](#)”, August 24, 2016
- 2014/12/26: *Science Friday* featured a story entitled “Birdie In Flight: The Science of Badminton” based on the research article published in *Journal of Sports Sciences*. Video available at: <http://www.sciencefriday.com/video/12/26/2014/birdie-in-flight-the-science-of-badminton.html>
- 2012/12/6: The research article “*Felt heaviness is used to perceive the affordance for throwing but rotational inertia does not affect either*” (published in *Experimental Brain Research*) was rated as one of “NeuroStars” (Top Cited or Most Widely Discussed) articles by *Springer Neuroscience*.
- 2011: Public media attention on the research article “*Human readiness to throw: the size-weight illusion is not an illusion when picking the best objects to throw*” published in *Evolution & Human Behavior*:
 - *Indiana News*, January 24, 2011
 - *Playbook: The Wired World of Sports / Science*, January 24, 2011
 - *ScienceDaily*, January 24, 2011
 - *USNews Science*, January 25, 2011
 - *New Hampshire Public Radio*, February 03, 2011
 - *National Evolutionary Synthesis Center (NESCent)*, February, 2011Video available at Youtube: <https://www.youtube.com/watch?v=vDzF092aaos>
- 2006/10/05: Reported in the article “*Badminton Phenom has Olympic dreams*” on Herald-Times newspaper, <http://www.heraldtimesonline.com/>
- 2005/08/25: Reported in the article “*A champion of and for his sport*” on Herald-Times newspaper, <http://www.heraldtimesonline.com/>
- 2003/04/11: School of HPER Gallahue-Morris Graduate Research Award
- 2003 – 2004: Male Athlete of the Year, Club Sports, Division of IU Recreational Sports
- 2003 – 2004: Most Improved Club Sport, Club Sports, Division of IU Recreational Sports
- 2002 – 2005: School of HPER University Fellowship Award
- 2002/06/25: Best Graduate Thesis in Shanghai University of Sports
- 1995 – 1999: Outstanding student in Department of Physical Education and Coaching at Shanghai University of Sport

Research & Scholarship:

➤ *Grants & Funding*

As Principal Investigator (PI)

Funded (total \$750,889):

1. Title: ***“Developing Immersive Biobehavioral Assessments with AI-enhanced Computing for Smart Tele-treatment of Addictive Disorders”***
Funding Agency: UW School of Computing Faculty Fellow Grant
Duration: 2024-2025
Amount: \$27,000
Type: Research
2. Title: ***“Predictive Monitoring Human Operational Performance in face of Multiple Spaceflight Stressors using Multi-modal Biobehavioral Markers”***
Funding Agency: Wyoming NASA EPSCoR Faculty Research Grant (Grant #80NSSC19M0061)
Duration: 2024-2025
Amount: \$30,000
Type: Research
3. Title: ***“Contrasting Aerobic with Resistance Exercise as an Early Intervention for Treating Alzheimer’s Disease using a Mouse Model”***
Funding Agency: Wyoming INBRE (NIH NIGMS IDeA program)
Duration: 2024 ~ 2025
Amount: \$28,484 in salary plus tuition, fees, and insurance
Type: Graduate Assistantship Award
Role: PI
4. Title: ***“Harmonious Combination of Chinese and Western Perspectives on Kinesiology and Health”***
Funding Agency: The Chinese Embassy in US and China Scholarship Council
Duration: 2023 spring -2024 summer
Amount: minimum \$15,000 (including tuition, fees, lodging, and stipend) to support 6 students
Type: Global Engagement (Study abroad)
5. Title: ***“Equipping UW Researchers with Eye-tracking Technology to Promote Health Science and Interdisciplinary Research”***
Funding Agency: UW College of Health Sciences Dean’s Office
Duration: 2022
Amount: \$35,740
Type: Equipment
6. Title: ***“Reaching the Unreached Addiction Disorders with Tele-assessment of Neurobehavior”***
Funding Agency: Wyoming Small Business Development Center (WSBDC)
Duration: 2021 ~ 2022
Amount: \$5,000
Type: Research

7. Title: ***“International Perspective on Sports Science and Behavior: Performance, Pedagogy and Principles”***
Funding Agency: UW Academic Affairs / Shanghai University of Sport / Chinese University of Hong Kong
Duration: 2023 ~ 2024
Amount: \$27,000
Type: Conference
8. Title: ***“Accelerated Telerehabilitation Infrastructure and Clinical Viability”***
Funding Agency: US Department of the Treasury through Wyoming Health & Bioscience Innovation Hub (CARES-HUB-MOVE#1040)
Duration: 2020 Oct ~ 2020 Dec
Amount: \$164,930
Type: Research
9. Title: ***“Developing Real-time Interaction and Motion Tracking in Immersive Virtual Reality for Telerehabilitation”***
Funding Agency: NIH- National Institute on Minority Health and Health Disparities (STTR: #1R41MD015689-01)
Duration: 2020 Sep ~ 2021 Sep
Amount: \$242,114
Type: Research
10. Title: ***“Multidimensional Performance Measurement and Evaluation on UW-SUS Nordic Ski Athletes: A Longitudinal Study”***
Funding Agency: UW CENTER FOR GLOBAL STUDIES
Duration: 2019 November ~ 2020 May
Amount: \$5,000
Type: Research
11. Title: ***“Validating A Novel System with Real-time Interaction and Motion Tracking in Immersive VR for Telerehabilitation”***
Funding Agency: Wyoming INBRE and CTR-IN: Developmental Translational Team Grant (DTTG)
Duration: 2019 September ~ 2020 March
Amount: \$20,000
Type: Research
12. Title: ***“Real-time Motion Tracking in 3D Immersive Virtual Reality for Tele-Rehabilitation***
Funding Agency: Wyoming Small Business Development Center (WSBDC)
Duration: 2019 ~ 2020
Amount: \$5,000
Type: Research
13. Title: ***Wyoming INBRE Graduate Assistantship***
Funding Agency: NIH NIGMS IDeA program
Duration: 2018 ~ 2019
Amount: \$26,200 in salary plus tuition, fees, and insurance
Type: Student Aid

14. Title: ***Wyoming INBRE Graduate Assistantship***
Funding Agency: NIH NIGMS IDeA program
Duration: 2017 ~ 2018
Amount: \$25,431 in salary plus tuition, fees, and insurance
Type: Student Aid
15. Title: ***“Developing A Novel Cognitive-Motor Assessment For Screening mTBI Among Active Young Adults”***
Funding Agency: CHS Faculty Seed Grant, University of Wyoming
Duration: 2017 ~ 2018
Amount: \$7,150
Type: Research
16. Title: ***“Bridging Kinesiology and Health Programs Between UW and Universities in East China”***
Funding Agency: International Program, University of Wyoming
Duration: 2017
Amount: \$2,000
Type: Travel
17. Title: ***Wyoming INBRE Graduate Assistantship***
Funding Agency: NIH NIGMS IDeA program
Duration: 2016 ~ 2017
Amount: \$21,060 in salary plus tuition, fees and insurance
Type: Student Aid
18. Title: ***“Exploring The Transfer Effects Of Perceptual-Motor Learning Of Coordination”***
Funding Agency: Shanghai Peak and High Plateau Disciplines Construction Grant: Phase I, Shanghai University of Sport, Shanghai Ministry of Education, CHINA
Duration: 2015 June ~ 2017 June
Amount: ¥120,000 (equivalent to \$20,000)
Type: Research
19. Title: ***“Task-specific Bimanual Training To Improve Upper Limb Function Post Stroke”***
Funding Agency: Mountain West IDeA Clinical and Translational Research –Infrastructure Network (CTR-IN), University of Nevada, Las Vegas, NV (NIGMS# 1U54GM104944-01A)
Duration: 2014 Dec ~ 2015 June
Amount: \$10,980
Type: Research
20. Title: ***ITHS-RC2 Network Travel Grant for Clinical Research Collaboration***
Funding Agency: Institute of Translational Health Sciences, Regional Clinical Research Center Network, University of Washington
Duration: 2014 April
Amount: \$1000
Type: Travel

21. Title: ***College of Health Sciences Faculty Travel Subsidy Grant***
Funding Agency: College of Health Sciences, University of Wyoming
Duration: 2013 summer
Amount: \$750
Type: Travel
22. Title: ***“Investigating Changes in Perceptual-Motor Learning Rates as a Function of Aging in Bimanual Coordination”***
Funding Agency: Key Laboratory Initiative Grant for International Collaboration, Shanghai University of Sport, Shanghai Ministry of Education, CHINA (#YK2012012)
Duration: 2012 June ~ 2013 June
Amount: ¥ 100,000 (equivalent to \$16,600)
Type: Research
23. Title: ***College of Health Sciences Faculty Travel Subsidy Grant***
Funding Agency: College of Health Sciences, University of Wyoming
Duration: 2012 summer
Amount: \$750
Type: Travel
24. Title: ***College of Health Sciences Faculty Travel Subsidy Grant***
Funding Agency: College of Health Sciences, University of Wyoming
Duration: 2011 summer
Amount: \$750
Type: Travel
25. Title: ***“Investigating the Effect of Bimanual Transfer of Learning on Acquisition of Long Distance Aimed Overarm Throwing”***
Funding Agency: Faculty-Grant-In-Aid, University of Wyoming
Duration: 2010 – 2011
Amount: \$7500
Type: Research
26. Title: ***“Investigating the Effect of Bimanual Transfer of Learning on Acquisition of Chinese Handwriting”***
Funding Agency: CHS Faculty Seed Grant, University of Wyoming
Duration: 2010 – 2011
Amount: \$7500
Type: Research
27. Title: ***“Investigating the Effect of String Tension on Striking Performance of Badminton Players”***
Funding Agency: YONEX Sports and Division of K&H
Duration: 2009-2010
Amount: \$3,000
Type: Research

28. Title: ***“Interlimb Transfer of Learning and Electrostimulation of Acupoints: Their Respective and Coupled Effects on Acquisition of the Aimed Ballistic Motor Skill”***
 Funding Agency: NIH INBRE Equipment Grant, University of Wyoming
 Duration: 2009-2010
 Amount: \$14,000
 Type: Equipment & Research

29. Title: ***School of HPER Dissertation Award***
 Funding Agency: School of HPER, Indiana University
 Duration: 2006-2007
 Amount: \$1,100
 Type: Student Aid

30. Title: ***School of HPER University Fellowship***
 Funding Agency: Indiana University
 Duration: 2002–2005 (Annually)
 Amount: \$3,300
 Type: Student Aid

31. Title: ***School of HPER Travel-Grant-in-Aid Award***
 Funding Agency: School of HPER, Indiana University
 Duration: 2002–2006 (Annually)
 Amount: \$250
 Type: Travel

32. Title: ***Department of Kinesiology Travel-Grant-in-Aid***
 Funding Agency: Department of Kinesiology, Indiana University
 Duration: 2002–2006 (Annually)
 Amount: \$250
 Type: Travel

As Co-Investigators (Co-I)

Funded (total \$911,234):

1. Title: ***“UW-SUS Center: Winter Sport Educational Coaching Program”*** (with Dr. Derek Smith)
 Funding Agency: Shanghai University of Sport (SUS)
 Duration: 2023-2024
 Amount: \$101,375
 Type: Global Engagement

2. Title: ***“A Step toward Developing Home-based Telerehabilitation for Stroke Patients: The Efficacy of Solitary vs. Collaborative Practice in Learning Unimanual Coordination”*** (with Undergraduate Student: Carly Palmer)
 Funding Agency: Wyoming INBRE Undergraduate Research Fellowship
 Duration: 2022 – 2023
 Amount: \$2,240
 Type: Student Aid

3. Title: ***“UW-SUS Center: Nordic Ski Education Training Program”*** (with Dr. Derek Smith)
 Funding Agency: Shanghai University of Sport (SUS)
 Duration: 2022-2023
 Amount: \$255,975
 Type: Global Engagement
4. Title: ***“UW-SUS Center: Nordic Ski Education Training Program”*** (with Dr. Derek Smith)
 Funding Agency: Shanghai University of Sport (SUS)
 Duration: 2020-2021
 Amount: \$121,843
 Type: Global Engagement
5. Title: ***“UW-SUS Center: A Multifaced International Program”*** (with Dr. Derek Smith)
 Funding Agency: Shanghai University of Sport (SUS)
 Duration: 2019-2022
 Amount: \$323,801
 Type: Global Engagement
6. Title: ***“Off-court Web-based Training to Improve Decision-making Performance”*** (with Dr. Sandip Vyas)
 Funding Agency: Badminton World Federation (BWF)
 Duration: 2018-2019
 Amount: \$7650
 Type: Research
7. Title: ***“The Effect of Taping Quadriceps and Hamstrings on Knee Joint Position Sense and ACL Loading in a Fatigued Jump-landing Task”*** (with Graduate Student: Taylor Kuehn)
 Funding Agency: CHS Student Research Grant, University of Wyoming
 Duration: 2018-2019
 Amount: \$1000
 Type: Student Aid
8. Title: ***“Effects of Training Frequency on Learning and Transfer of a Novel Rhythmic Coordination”*** (with Graduate Student: Shaochen Huang)
 Funding Agency: CHS Student Research Grant, University of Wyoming
 Duration: 2018-2019
 Amount: \$1000
 Type: Student Aid
9. Title: ***“Grasping a Ball with Static and Dynamic Ebbinghaus Illusion in a 3D Virtual Reality Environment”*** (with Undergraduate Student: Russell N. Todd in Computer Science)
 Funding Agency: Wyoming INBRE Undergraduate Research Fellowship
 Wyoming NASA Space Grant Undergraduate Research Fellowship
 Duration: 2018 – 2019
 Amount: \$800 + \$2500
 Type: Student Aid

10. Title: ***“The Speed-Accuracy Tradeoff Problem in an Immersive Virtual Environment”*** (with Undergraduate Student: Russell N. Todd in Computer Science)
 Funding Agency: Wyoming EPSCoR Undergraduate Research Summer Fellowship
 Duration: 2017 Summer
 Amount: \$4500
 Type: Student Aid

11. Title: ***“Rapid screening of traumatic brain injury in student veterans of the rural mountain west”*** (with Dr. Alessandro Danna-Dos Santos and Dr. Sambit Mohapatra at University of Montana, and Dr. Hyunhwa Lee at University of Nevada, Las Vegas)
 Funding Agency: Mountain West IDeA Clinical and Translational Research –Infrastructure Network (CTR-IN), Multisite Research Project Program (Subaward as one of site institutions)
 Duration: 2017 July ~ 2018 June
 Amount: \$35,200
 Type: Research
 * The parent grant was awarded to PI at UM, however, the subaward was terminated due to PI leaving UM

12. Title: ***“Perception of Action in Vertical Dance”*** (with Undergraduate Student: Sean Feehan)
 Funding Agency: Wyoming EPSCoR Undergraduate Research Award
 Duration: 2016 Spring
 Amount: \$800
 Type: Student Aid

13. Title: ***“Throwing At A Remote Target With The Constrained Release Angle”*** (with Undergraduate Student: Dakota Anderson)
 Funding Agency: Wyoming EPSCoR Undergraduate Research Summer Fellowship
 Duration: 2015 Summer
 Amount: \$4500
 Type: Student Aid

14. Title: ***“Combining Haptic And Visual Guidance In Perceptual-motor Learning of A Novel Pattern of Bimanual Coordination ”*** (with Graduate Student: Shaochen Huang)
 Funding Agency: CHS Student Research Grant, University of Wyoming
 Duration: 2015-2016
 Amount: \$1000
 Type: Student Aid

15. Title: ***College of Health Sciences Student Travel Subsidy Grant*** (with Graduate Student: Shaochen Huang)
 Funding Agency: College of Health Sciences, University of Wyoming
 Duration: 2015 Summer
 Amount: \$750
 Type: Travel

16. Title: ***“Bimanual Coordination Training To Improve Upper Limb Function Post Stroke”*** (with Undergraduate Student: Ryan Arey)
 Funding Agency: Wyoming EPSCoR Undergraduate Research Award
 Duration: 2015 Spring
 Amount: \$800

Type: Student Aid

17. Title: ***“Use of Natural and Coordinated Two-handed Motion to Improve Gesture-based Interaction Design”*** (with Dr. Amy Banic at Department of Computer Sciences, University of Wyoming)
Funding Agency: UW office for Research & Economic Development, New Research Initiative
Duration: 2014-2015
Amount: \$25,000
Type: Research
18. Title: ***“Exploring The Effect of Active Music Making on Improving Functional Reach-to-Grasp Movement”*** (with Undergraduate Student: Andrea Dahill)
Funding Agency: Wyoming EPSCoR Undergraduate Research Award
Duration: 2013 Spring
Amount: \$750
Type: Student Aid
19. Title: ***“Kinesthetic Learning of Bimanual Coordination”*** (with Undergraduate Student: Todd Mirich)
Funding Agency: Wyoming EPSCoR Undergraduate Research Award
Duration: 2013 Spring
Amount: \$750
Type: Student Aid
20. Title: ***“The Effects of a Resistance Band on Gluteus Medius Muscle Activations and Hip Abduction Torque during Jump Landing”*** (with Dr. Boyi Dai at University of Wyoming)
Funding Agency: CHS Faculty Seed Grant, University of Wyoming
Duration: 2013 – 2014
Amount: \$7500
Type: Research
21. Title: ***“Developing and Validating an On-Site Biomechanical Testing Tool for ACL Injury Prevention”*** (with Dr. Boyi Dai at University of Wyoming)
Funding Agency: UW Faculty-Grant-In-Aid
Duration: 2013-2014
Amount: \$7,500
Type: Research
22. Title: ***College of Health Sciences Student Travel Subsidy Grant*** (with Graduate Student: Kathryn Leonard)
Funding Agency: College of Health Sciences, University of Wyoming
Duration: 2012 Summer
Amount: \$750
Type: Travel
23. Title: ***“Determining the Effect of Visual Illusion on Discrete and Continuous Tapping Task”*** (with Graduate Student: Sushma Alphonsa)
Funding Agency: CHS Student Research Grant, University of Wyoming
Duration: 2012-2013

Amount: \$1000
Type: Student Aid

24. Title: ***College of Health Sciences Student Travel Subsidy Grant*** (with Graduate Student: *Sushma Alphonsa*)
Funding Agency: College of Health Sciences, University of Wyoming
Duration: 2012 Summer
Amount: \$750
Type: Travel
25. Title: ***“Can Observational Learning and Transcutaneous Electrical Nerve Stimulation Improve Gait Kinematics and Velocity in Persons with Chronic Stroke”*** (with Graduate Student: *Jason Falvey*)
Funding Agency: CHS Student Research Grant, University of Wyoming
Duration: 2012-2013
Amount: \$1000
Type: Student Aid
26. Title: ***Biomedical Sciences Student Travel Subsidy Grant*** (with Graduate Student: *Jason Falvey*)
Funding Agency: Biomedical Sciences Doctoral Program, University of Wyoming
Duration: 2012 Summer
Amount: \$750
Type: Travel
27. Title: ***College of Health Sciences Student Travel Subsidy Grant*** (with Graduate Student: *Rashmi Ravi*)
Funding Agency: College of Health Sciences, University of Wyoming
Duration: 2011 Summer
Amount: \$750
Type: Travel
28. Title: ***“Intermanual Transfer of Learning Long Distance Aimed Throwing”*** (with Undergraduate Student: *Todd Mirich*)
Funding Agency: Wyoming INBRE Undergraduate Research Award
Duration: 2011 Spring
Amount: \$750
Type: Student Aid

Unfunded Grant:

1. Title: ***“Developing VR-based Biobehavioral Assessments for Smart Tele-treatment of Addictive Disorders”***
Funding Agency: UW School of Computing Faculty Fellow Grant
Duration: 2023-2024
Amount: \$30,000
Type: Research

2. Title: ***“Design and Evaluation of an Immersive Behavioral Modification System (IBMS) using Attentional Bias to Identify and Treat Addictive Disorders”***
Funding Agency: UW College of Engineering and Physical Sciences Interdisciplinary-Collaborative Seed Grants for AY 2023-2024
Duration: 2023-2024
Amount: \$25,000
Type: Research
Role: Co-I
3. Title: ***“Developing an Interactive and Integrative Behavioral Assessment for Tele-treatment of Addiction Disorders”***
Funding Agency: Wyoming INBRE (NIH NIGMS IDeA program)
Duration: 2023 ~ 2025
Amount: \$34,784 in salary plus tuition, fees and insurance
Type: Graduate Assistantship Award
Role: Co-I
4. Title: ***“Reaching Unreached Opioid Use Disorders Using an Engaging Tele-Neurobehavioral System”***
Funding Agency: National Institute of Health- National Institute on Drug Abuse (NIDA)
Duration: 2023 March ~ 2024 March
Amount: \$320,000
Type: SBIR Research
Role: Co-I
5. Title: ***“Technology Integration for Engaging and Evidence-based Telehealth”***
Funding Agency: Wyoming Department of Health Innovation Grant
Duration: 2023 January ~ 2026 July
Amount: \$647,455
Type: Research
Role: Co-I
6. Title: ***“Integrating Neuroimaging with Virtual Reality for Evidence-based and Engaging Treatment of Addictive Disorders”***
Funding Agency: Sony Research Award Program – North America
Duration: 2022 March ~ 2023 March
Amount: \$150,000
Type: Research
Role: PI
7. Title: ***“Virtual Pathways: An Interdisciplinary Cross-Institutional Approach to Diversifying Research Training of Extended Reality (XR) Technologies to Optimize the Future-of-Work”***
Funding Agency: NSF Research Traineeship (NRT) on Human-Technology Frontier (FW-HTF) program, Collaboration between Colorado State university and University of Wyoming
Duration: 2022 September ~ 2027 August
Amount: \$858,501
Type: Research
Role: UW Co-I

Publications (All data-based):

PubMed Bibliography @ <https://www.ncbi.nlm.nih.gov/myncbi/1pUmB1tznllAjC/bibliography/public/>

Also accessible with following scholarly identity

RGID: https://www.researchgate.net/profile/Qin_Zhu9

ORCID: <http://www.orcid.org/0000-0002-2088-6043>

* denotes published student research project, thesis or dissertation

\$ denotes secured funding for the research

♥ denotes spent ≥ 50% effort

Refereed Book Chapters/Proceedings:

1. ♥ Li, W., Dai, B., **Zhu, Q.** (2024). *Sports Skill Analysis*, Routledge, Taylor & Francis Group, LLC, New York, NY. doi.org/10.4324/9781003331964
2. * Liu, P., Zhang, C., **Zhu, Q.**, Li, H., & Jacobs, F. (2023). Assessing the Impact of Construction Work Zone Layout on Traffic Safety: A Driving Simulator Experiment. In *Computing in Civil Engineering 2023: Resilience, Safety, and Sustainability*, pp. 226-232, doi: [10.1061/9780784485224](https://doi.org/10.1061/9780784485224).
3. *\$♥ Todd, R., **Zhu, Q.**, & Banic, A. “Temporal availability of Ebbinghaus Illusions on Perceiving and Interacting with 3D Objects in a Contextual Virtual Environment”. 2021 IEEE Virtual Reality and 3D User Interfaces (VR), 2021, pp. 817-825, doi: [10.1109/VR50410.2021.00109](https://doi.org/10.1109/VR50410.2021.00109).
4. ♥ **Zhu, Q.** (2020). Proprioception. In *Encyclopedia of China – Psychology (The 3rd Edition)*. Encyclopaedia of China Publishing House. Beijing, CHINA
<https://www.zgbk.com/ecph/words?SiteID=1&ID=26566&Type=bkzyb&SubID=42552>
5. ♥ Wilson, A.D, **Zhu, Q.**, Bingham, G. Affordances and the Ecological Approach to Throwing for Long Distance and Accuracy (2019). In M.L. Cappuccio (Eds.) *Handbook of Embodied Cognition and Sport Psychology*, The MIT Press, Cambridge, MA & London, England.
6. ♥ Pradhan, N., Benavides, A., **Zhu, Q.**, & Banic, A.U. (2015). Evaluation of Fatigue Measurement Using Human Motor Coordination for Gesture-Based Interaction in 3D Environments. In *International Symposium on Visual Computing* (pp. 443-452). Springer International Publishing. DOI: 10.1007/978-3-319-27863-6.
7. \$♥ **Zhu, Q.**, & Bingham, G.P. (2009). Investigating the information used to detect an affordance for maximum distance throws. In J. Wagman & C. Pagano (Eds.) *Studies in Perception and Action X.*, Taylor & Francis Group, LLC. Boca Raton, FL.

Refereed Journals:

1. * Zhang, Z.Q., Feng, Z.C., Gerow, K.G., Wallhead, T., **Zhu, Q.** (2024) Seeing the unseen boundary behind you: Predicting the out-of-bounds of flick serves in playing badminton doubles. *Psychology of Sport and Exercise*, Vol 75, <https://doi.org/10.1016/j.psychsport.2024.102702> (IF = 3.1).

2. *Song, Y., Li, L., Layer, L., Fairbanks, R., Hughes, G., Smith, D.T., Wilson, M., **Zhu, Q.**, Dai, B. (2024). Unanticipated mid-flight external trunk perturbation increased frontal plane acl loading variables during sidestep cuttings. *Journal of Sports Sciences*, 1–12. <https://doi.org/10.1080/02640414.2024.2353404>. (IF = 2.3)
3. *Song, Y., Li, L., Layer, L., Hughes, G., Smith, D.T., Wilson, M., **Zhu, Q.**, Dai, B. (2024). Indirect contact matters: Mid-flight external trunk perturbation increased unilateral anterior cruciate ligament loading variables during jump-landings. *Journal of Electromyography and Kinesiology*. <https://doi.org/10.1016/j.jelekin.2023.102849>. (IF = 2.5)
4. \$♥Wang, X., Smith, D.T., **Zhu, Q.** (2023) A webcam-based machine learning approach for the three-dimensional range of motion evaluation. *PlosOne* 18(10): e0293178. <https://doi.org/10.1371/journal.pone.0293178>. (IF = 3.8).
5. *Song, Y., Li, L., Layer, L., Fairbanks, R., Jenkins, M., Hughes, G., Smith, D.T., Wilson, M., **Zhu, Q.**, Dai, B. (2023). Indirect contact matters: Mid-flight external trunk perturbation increased unilateral anterior cruciate ligament loading variables during jump-landings. *Journal of Sport and Health Sciences*. 12(4), 534-543. <https://doi.org/10.1016/j.jshs.2022.12.005>. (IF = 13.1)
6. *♥Arrude, D., Dai, B., Readdy, T., McRea, S., **Zhu, Q.** (2022). Sequential focus of attention instructions influenced motor performance of volleyball setting despite direction of focus but dependent on motor expertise of the player. *International Journal of Sport and Exercise Psychology*. <https://doi.org/10.1080/1612197X.2022.2138495> (IF = 4.0)
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26. ♥ Wilson, A., **Zhu, Q.**, Stanistreet, I., Barham, L., & Bingham, G. (2016) A dynamical analysis of the suitability of prehistoric spheroids from the Cave of Hearths as thrown projectiles. *Scientific Reports*, 6: 30614. <http://doi.org/10.1038/srep30614> (IF = 5.2).
27. ♥ Wilson, A., Weightman, A., Bingham, G., & **Zhu, Q.** (2016). Using task dynamics to quantify the affordances of throwing for distance and accuracy. *Journal of Experimental Psychology: Human Perception and Performance*, 42(7), 965-981. <https://doi.org/10.1037/xhp0000199> (IF = 3.4)
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30. * Fisher, H., Stephenson, M.L., Graves, K.K., Hinshaw, T.J., Smith, D.T., Wilson, M.A., **Zhu, Q.**, & Dai, B. (2016). The relationship between force production during isometric squats and knee flexion angles during landing. *Journal of Strength and Conditioning Research*, 30(6):1670-1679. <http://doi.org/10.1519/JSC.0000000000001264> (IF = 2.1)
31. *\$♥ Alphonsa, S., Dai, B.Y., Bingham-Deal, T., & **Zhu, Q.** (2016). Combined visual illusion effects on the perceived index of difficulty and movement outcomes in discrete and continuous Fitts' tapping. *Psychological Research*, 80(1), 55-68. <https://doi.org/10.1007/s00426-014-0641-x> (IF = 2.9)
32. * Heinbaugh, E.M., Smith, D.T., **Zhu, Q.**, Wilson, M.A., & Dai, B.Y. (2015). The effect of time-of-day on static and dynamic balance in recreational athletes. *Sports Biomechanics*, 14(3):361-73. <https://doi.org/10.1080/14763141.2015.1084036> (IF = 0.9)

33. *Wilson, M., Dai, B., **Zhu, Q.**, & Humphrey, N. (2015). Estimating trunk muscle compressive force in rope and harness vertical dance. *Journal of Dance Medicine and Science*, 19(4), 163-172. <http://dx.doi.org/10.12678/1089-313X.19.4.163> (SJR = 0.2)
34. *Donohue, M. R., Ellis, S. M., Heinbaugh, E. M., Stephenson, M. L., **Zhu, Q.**, & Dai, B. (2015). Differences and correlations in knee and hip mechanics during single-leg landing, single-leg squat, double-leg landing, and double-leg squat tasks. *Research in Sports Medicine*, 23(4), 394-411. <https://doi.org/10.1080/15438627.2015.1076413> (IF = 1.7)
35. *♥Guo, W., Ren, J., Wang, B., **Zhu, Q.** (2015). Effects of relaxing music on mental fatigue induced by a continuous performance task: Behavioral and ERPs evidence. *PLoS ONE* 10(8): e0136446. <http://doi.org/10.1371/journal.pone.0136446> (IF = 3.5)
36. \$♥Ren, J., Huang, S.C., Zhang, J.C., **Zhu, Q.**, Wilson, A.D., Snapp-Childs, W., & Bingham, G.P. (2015) The 50's Cliff: A decline in perceptuo-motor learning, not a deficit in visual motion perception. *PLoS ONE* 10(4): e0121708. <http://doi.org/10.1371/journal.pone.0121708> (IF = 3.5)
37. \$♥**Zhu, Q.**, & Bingham, G.P. (2014). Seeing where the stone is thrown by observing a point-light thrower: Perceiving the effect of action is enabled by information not motor experience. *Ecological Psychology*, 26, 229-261. <https://doi.org/10.1080/10407413.2014.957969> (IF = 2.1)
38. ♥Dai, B., Heinbaugh, E.M., Ning, X. & **Zhu, Q.** (2014). A resistance band increased internal hip abduction moment and gluteus medius activation during pre-landing and landing. *Journal of Biomechanics*, 47(15), 3674–3680. <https://doi.org/10.1016/j.jbiomech.2014.09.032> (IF = 2.7).
39. \$♥**Zhu, Q.**, Mirich T., & Bingham, G.P. (2014). Perception of relative throw-ability. *Experimental Brain Research*, 232(2), 395-402. <https://doi.org/10.1007/s00221-013-3747-2> (IF = 2.2)
40. \$♥**Zhu, Q.** Expertise of using striking techniques for power stroke in badminton (2013). *Perceptual and Motor Skills*, 117(2), 427-441. <https://doi.org/10.2466/23.25.PMS.117x24z2> (IF = 1.6)
41. ♦\$♥**Zhu, Q.** (2013). Perceiving the affordance of string tension for power strokes in badminton: Expertise allows effective use of all string tensions. *Journal of Sports Sciences*, 31(11), 1187-1196. <http://doi.org/10.1080/02640414.2013.771818> (IF = 2.1)
42. \$♥**Zhu, Q.**, Shockley, K., Riley, M.A., Tolston, M.T., & Bingham, G.P. (2013). Felt heaviness is used to perceive the affordance for throwing but rotational inertia does not affect either. *Experimental Brain Research*, 224, 2, 221-231. <https://doi.org/10.1007/s00221-012-3301-7> (IF = 2.2)
43. \$♥**Zhu, Q.**, & Bingham, G.P. (2011). Human readiness to throw: the size-weight illusion is not an illusion when picking the best objects to throw. *Evolution and Human Behavior*, 32, 288-293. <https://doi.org/10.1016/j.evolhumbehav.2010.11.005> (IF = 3. 9)
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46. \$♥ **Zhu, Q.**, & Bingham, G.P. (2009). Learning to throw to maximum distances: Do release angle and speed reflect affordances for throwing? *Human Movement Science*, 28, 6, 708-725. <https://doi.org/10.1016/j.humov.2009.07.005> (IF = 2.1)
47. \$♥ **Zhu, Q.**, & Bingham, G.P. (2008). Is hefting to perceive the affordance for throwing a smart perceptual mechanism? *Journal of Experimental Psychology: Human Performance and Perception*, 34, 4, 929-943. <http://doi.org/10.1037/0096-1523.34.4.929> (IF = 3.1)
48. ♥ Ren, J., Zhang, J.C., Yang, Y., Jin, Y.H., **Zhu, Q.**, & Li, N.H. (2001). Research on attentional demand during implicit motor learning. *Journal of Psychological Science*, 24(4), Shanghai, China. (CSSCI-IF = 0.98)
49. Ren, J., Zhang, J.C., Yang, Y., Jin, Y.H., **Zhu, Q.**, & Li, N.H. (2001). The implicit learning and distractive practice in motor skill learning: Coping with the stress. *Sport Science*, 21(3), Beijing, China. (CSSCI-IF = 1.95)
50. \$♥ **Zhu, Q.**, Zhang, J.C., Jin, Y.H., & Li, N.H. (2000). Status quo of research on selective attention in contemporary sports. *Academic Journal of Shanghai Physical Education Institute*, 24(4), Shanghai, China. (CSSCI-IF = 1.54)

➤ **Presentations:**

International / National

1. Zhang, Z.Q., Feng, Z.C, Wallhead, T., Gerow, K., **Zhu, Q.** “*The expertise of using nested affordances for predicting out-of-bounds of flick serves in playing badminton doubles*” Poster presentation at the XXII International Conference on Perception and Action (ICPA), June 25-28, Trondheim, Norway 2024.
2. Feng, Z.C., Song, Y., **Zhu, Q.** “*The coordination of upper-lower limb movements in shooting basketball with changing distances: A pilot study*” Poster presentation at the 42nd International Society of Biomechanics in Sports (ISBS) conference, July 15-19, Salzburg, Austria 2024.
3. Song, Y., Hughes, G., Smith, D., **Zhu, Q.**, Dai, B. “*Falling Decreased ACL Loading Variables During Single-Leg Landings After Mid-Flight External Trunk Perturbation*” Oral presentation at the 41st International Society of Biomechanics in Sports (ISBS) conference, July 12-16, Milwaukee, WI 2023.
4. Palmer, C., Cheng, X., Huang, S.C., Bingham, G., **Zhu, Q.** “*Effects of Intentionality and Frequency on Maintaining a Learned Dyadic Coordination*” Oral presentation at the NASPSPA conference, June 1-4, Toronto, Ontario, Canada 2023.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol45, S41.
5. **Zhu, Q.**, Song, Y., Dai, B., Wilson, M., Dong, M., Ma, G., Yang, Y., Wang, X. “*The Sensitivity of Vertical Dancers in Detecting Artificially Inverted Dance Movements in Point-Light Displays*” Oral presentation at the NASPSPA conference, Waikoloa Beach, Hawaii, May 2022.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol44, S61.

6. Wang, X.M., **Zhu, Q.**, & Smith, D.T. (2022). “*Three-dimensional full-body range of motion: A machine learning-based approach*”. Oral presentation at the Southern Ontario Motor Behavior Symposium, Guelph, ON, Canada.
7. Li, J., Gao, B., Dai, B., **Zhu, Q.**, Li, L., Li, R. (2021) “*The effects of eight-week sports-specific training on the kinematics of double-pole techniques in novice cross-country skiers*”, ISBS Proceedings Archive: Vol. 39: Iss.1, Article27.
Available at: <https://commons.nmu.edu/isbs/vol39/iss1/27>
8. Herth, R.A., **Zhu, Q.**, Bingham, G. “*Responses to frequency scaling of 90° rhythmic coordination: When the switching of modes entails a switch in information*” Oral presentation at the NASPSPA conference, Vancouver, Canada, June 2020.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol42, S38.
9. Huang, S., **Zhu, Q.**, Layer, J., Dai, B., Yang, J., Bingham, G. “*The effect of training frequency on learning and transfer of a novel pattern of bimanual coordination*” Oral presentation at the NASPSPA conference, Vancouver, Canada, June 2020.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol42, S40.
10. **Zhu, Q.**, Huang, S., Dai, B., Yang, J., Bingham, G. “*Scanning frequency affects coordination performance independent of scanning direction*” Oral presentation at the NASPSPA conference, Vancouver, Canada, June 2020.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol42, S64.
11. **Zhu, Q.** “*The roles of visual and kinesthetic information in learning and control of bimanual coordination*” Invited keynote speaker at School of Psychology, Shanghai University of Sport, May 2019.
12. Huang, S.C., Van Syoc, B., Yang, R.N., Kuehn, T., Smith, D., & **Zhu, Q.** “*Using visual and/or kinesthetic information to stabilize intrinsic bimanual coordination patterns is a function of movement frequency*” Oral presentation at the NASPSPA conference, Baltimore, MD, June 2019.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol41, S34.
13. Hopkin, A., Huang, S.C., **Zhu, Q.** “*Using an eye-hand coordination task to screen people with a history of mTBI*” Oral presentation at the NASPSPA conference, Baltimore, MD, June 2019.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol41, S34.
14. Huang, S.C., Dai, B. & **Zhu, Q.** “*Using coordination tasks to screen people with a history of mTBI*” Oral presentation at the NASPSPA conference, Denver, CO, June 2018.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, Vol40, S52.
15. **Zhu, Q.** “*Scope and Implications of Motor Behavior Research*” Invited WeChat Lecture by International Chinese Society for Physical Activities and Health (ICSPAH), October 28, 2017.
16. Huang, S.C., **Zhu, Q.** “*Establishing thresholds for visual discrimination of intrinsic and novel coordination patterns*” Free communication/slide session at the 2017 Annual Meeting, World Congress on Exercise is Medicine, and World Congress on the Basic Science of Exercise and the Brain of the American College of Sports Medicine, Denver Convention Center, Denver, Colorado, June 2, 2017.
Refereed abstract published in *Medicine and Science in Sports and Exercise*, 49:5 Supplement.
17. Wilson, A., **Zhu, Q.**, Stanistreet, I., Barham, L., & Bingham, G. “*Task Dynamics and The Affordances of Prehistoric Spheroids for Throwing*”. Oral paper presented at European Workshop on Ecological Psychology, Groningen, Netherlands, July 6, 2016.

18. Meyer, E., Sciascia, Y., Cook, R., Hinshaw, T., Wang, C.Y., **Zhu, Q.**, Dai, B.Y. “*The Effect of a Secondary Cognitive Task on Lower Extremity Biomechanics and Performance during Landing*” Poster presented at the 40th annual conference of the American Society of Biomechanics, Raleigh, NC, August 2016.
19. Dai, B.Y., Hinshaw, T., Trumble, T., Cosgrove, M., Wang, C.Y., **Zhu, Q.**, “*Lowering Eye Height to Increase Knee and Hip Flexion during Landing*” Poster presented at the 40th annual conference of the American Society of Biomechanics, Raleigh, NC, August 2016.
20. Bingham, G.P., Snapp-Childs, W., **Zhu, Q.**, Huang, S.C. “*On the importance of inter-sensory redundancy: Learning a new rhythmic coordination pattern using one mode (vision vs kinesthesia) can teach performance using the other mode*” Poster presented at the Vision Sciences Society (VSS) conference, Naples, FL, May 2016.
Refereed abstract published in *Journal of Vision*
21. Huang, S.C., & **Zhu, Q.**, “*Combined Visual-Kinesthetic Training Alleviated Visual Dominance Effect in Visual Learning of Bimanual Coordination*” Poster presented at the NASPSPA conference, Montreal, Canada, June 2016.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S38, 70.
22. Hart, T.P., & **Zhu, Q.**, “*Effects of Pattern Running vs. Reactive Initiation Training on Badminton On-court Agility*” Poster presented at the NASPSPA conference, Montreal, Canada, June 2016.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S38, 65.
23. Peng, J.Y., & **Zhu, Q.**, “*The Effects of Memory Style and Motor Experience on Action Memory*” Poster presented at the NASPSPA conference, Montreal, Canada, June 2016.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S38, 241.
24. Wilson, M., Feehan, S., Peng, J.Y., Dai, B.Y., & **Zhu, Q.** “*Visual discrimination of dance movements performed on the ground and in the air*” 10-minute verbal presentation at the International Association for Dance Medicine & Science (IADMS) 26th Conference, Hong Kong, October 20 -23, 2016.
25. **Zhu, Q.**, Dahill, A., Tryon, D., Dai, B., Lv, J. “*The influence of musical training on lifting bottles of unknown weights*” Poster presented at the NASPSPA conference, Portland, OR, June 2015.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S37, 69.
26. Huang,S.C., Ren, J., Zhang, J., Bingham, G., **Zhu, Q.**, “*Haptic information is more reliable than visual information in learning a novel pattern of bimanual coordination*” Oral paper presented at the NASPSPA conference, Portland, OR, June 2015.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S37, 44.
27. Stephenson, M., Hinshaw, T., Trumble, T., **Zhu, Q.**, Dai, B. “*The effects of stimulus timing on the kinematics of a directed jump landing*” Oral paper presented at the 39th annual conference of the American Society of Biomechanics, Columbus, OH, August 2015.
28. **Zhu, Q.**, Huang,S.C., Ren, J., Zhang, J.C., Wilson, A.D., Snap-Childs, W., & Bingham, G.P. “*Older adults exhibit impaired perceptuo-motor learning of novel coordination patterns and it is not just poor visual motion perception*” Poster presented at the NASPSPA conference, Minneapolis, MN, June 2014.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S36, 57.
29. Mirich, T., **Zhu, Q.**, Wilson, A.D., & Bingham, G.P. “*Learning of novel coordination patterns is information mode specific and vision dominates*” Poster presented at the NASPSPA conference, Minneapolis, MN, June 2014.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S36, 44.

30. Alphonsa, S., Dai, B.Y., Benham-Deal, T. & **Zhu, Q.** “*The differential effect of the perceived index of difficulty on the movement outcomes of discrete and continuous tapping*” Oral paper presented at the NASPSPA conference, Minneapolis, MN, June 2014.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S36, 18.
31. Dai, B., **Zhu, Q.**, Ning, X., & Leigh, S. “*Video-based motion capture to calculate 3D knee kinematics and kinetics during landing*” Poster presented at the 7th World Congress of Biomechanics, Boston, MA, July 2014.
32. Dai, B., Heignbaugh, E.M., Ning, X., **Zhu, Q.**, “*A resistance band increased internal hip abduction moments and gluteus medius activation during pre-landing and landing*” Oral paper presented at the 7th World Congress of Biomechanics, Boston, MA, July 2014.
33. Dai, B., Stephenson, M., Ellis, S., Donohue, M., & **Zhu, Q.** “*Landing training with tactile feedback helped to increase maximum knee flexion angle and decrease impact forces*” Poster presented at the 32nd International Society of Biomechanics in Sport (ISBS), Johnson City, TN, July, 2014.
34. **Zhu, Q.** “*On the Affordance of Throwing*” Invited oral presentation to the Department of Applied Psychology, Shanghai University of Sport, Shanghai, CHINA, June 6, 2013.
35. **Zhu, Q.** “*Judging the Destination of Throwing in Point Light Display: Testing the Motor Theory for Perception of Action*” Invited oral presentation in the forum of “*On the Motor Theory of Biological Motion Perception: Events and Actions as Dynamically Modeled Spatial-Temporal Objects*” at the Department of Physical Education, Shanghai University of Finance and Economics, Shanghai, CHINA, June 7, 2013.
36. Donohue, M.R., Ellis, S.M., Heinbaugh, E.M., **Zhu, Q.**, & Dai, B. “*Similarities and differences in knee mechanics between single leg squat and single leg jump*” Poster presented at the 37th annual meeting of the American Society of Biomechanics (ASB), Omaha, NE, Aug 2013.
37. Wilson, M., Dai, B., **Zhu, Q.**, & Humphrey, N. “*Estimating trunk compression force in vertical dance*”. Poster presented at International Association for Dance Medicine & Science Meeting. Seattle, WA, 2013.
38. Wilson, M., Dai, B., **Zhu, Q.**, & Humphery, N. “*Estimating trunk muscle force in vertical dance*” Poster presented at the 37th annual meeting of the American Society of Biomechanics (ASB), Omaha, NE, Aug 2013.
39. Alphonsa, S., & **Zhu, Q.** “*The perceived index of difficulty determines the accuracy of the discrete tapping*” Poster presented at the NASPSPA conference, New Orleans, LA, June 2013.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S35, 17.
40. **Zhu, Q.**, Wilson, A.D., & Bingham, G.P. “*Common coding not supported: Expert and novice throwers viewing point-light displays of self vs other’s throwing motions to judge target locations*” Poster presented at the Vision Sciences Society (VSS) conference, Naples, FL, May 2013.
Refereed abstract published in *Journal of Vision*, 13(9), 761.
41. Mirich, T., **Zhu, Q.**, Bingham, G.P. “*Relative throw-ability of objects of varying size and weight is perceivable as revealed by magnitude estimation methods*” Poster presented at the Vision Sciences Society (VSS) conference, Naples, FL, May 2013.
Refereed abstract published in *Journal of Vision*, 13(9), 680.
42. Wilson, A.D., Weightman, A., **Zhu, Q.**, Bingham, G.P. “*Using dynamical simulations to quantify affordances in the task space for throwing to hit distant targets*” Poster presented at the Vision Sciences Society (VSS) conference, Naples, FL, May 2013.

Refereed abstract published in *Journal of Vision*, 13(9), 749.

43. **Zhu, Q.**, Lv, J. “*Expert release control in response to changing spatial properties of a remote target*” Poster presented at the NASPSPA conference, Honolulu, HI, June 2012.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S34, 149.
44. Alphonsa, S., & **Zhu, Q.** “*The perceived index of difficulty affected accuracy more than movement time in a rapid tapping task*” Poster presented at the NASPSPA conference, Honolulu, HI, June 2012.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S34, 65.
45. Falvey, J., & **Zhu, Q.** “*The effect of transcutaneous electrical nerve stimulation combined with mental practice to learn a novel fine motor skill*” Poster presented at the NASPSPA conference, Honolulu, HI, June 2012.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S34, 83.
46. **Zhu, Q.**, Leonard, K., & Falvey, J. “*The roles of self identity and expertise in judging spatial properties of a hidden remote target in point-light-display of aimed throwing*” Poster presented at the NASPSPA conference, Honolulu, HI, June 2012.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S34, 103.
47. **Zhu, Q.** “*Assessing string tension effect on badminton power stroke performed by players at different levels*” Poster presented at the 12th Measurement and Evaluation Symposium: New approaches in measuring and assessing physical activity, Boston, MA, March, 2012.
48. **Zhu, Q.** “*Perception and Action Approach to Study Skill Acquisition in Sport and Rehabilitation*” Invited oral presentation to the Department of Psychology, Suchow University, Suzhou, CHINA, June, 2011.
49. **Zhu, Q.** “*Research on Affordances in Sport*” Invited oral presentation to the Graduate School, Shanghai University of Sport, Shanghai, CHINA, June, 2011.
50. **Zhu, Q.**, & Ravi, R.P. “*Effects of target height and distance on the release control of long distance aimed overarm throwing*” Poster presented at the 8th Progress in Motor Control Meeting (PMC VIII), University of Cincinnati, Ohio, USA, July, 2011. (Accepted but withdrew due to graduate student leaving).
51. **Zhu, Q.** & Ravi, R.P. “*Expert Throwers can Perceive Spatial Properties of a Remote Target in Point-Light Display of Self Throws prior to Release*” Poster presented at the NASPSPA Conference, Burlington, VT, June , 2011.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S33, 98.
52. **Zhu, Q.** “*Does String Tension Make Sense to Badminton Players?- A Study on The Affordance of String Tension*” Oral paper presented at the NASPSPA Conference, Burlington, VT, June , 2011.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, S33, 125.
53. **Zhu, Q.**, Dapena, J., Shea, J.B., & Bingham, G.P. “*Effects of Object Size and Weight on the Kinematics of Throwing During Acquisition of Maximum Distance Throws*” Poster presented at the NASPSPA Conference, Austin, TX, June 2009.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, 31S, 107.
54. Bingham, G.P & **Zhu, Q.** “*Hefting to Perceive Affordances for Maximum Throwing Distances is a Smart Perceptual Mechanism*” Oral paper presented at the International Conference on “A Natural-Physical Perspective on Perception-Action-Cognition”, Storrs, CT, June, 2008.

55. **Zhu, Q.**, & Shea, J.B. “*The Effect of Practice Order on Learning Three Simple Motor Tasks*” Poster presented at the NASPSPA/ACSM Conference, Denver , CO, June, 2006.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, 28S, 197.
56. **Zhu, Q.**, & Shea, J.B. “*The Grouping Effect on Simple Motor Task Switching*”, Seminar paper presented at the NASPSPA Conference, St. Pete’s Beach, FL, June, 2005.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, 27S, 164.
57. Parry, T.E., Shea, J.B. & **Zhu, Q.** (2005). “*Task Switching effects of a single-segment stimulus on the performance of a multi-segment motor task*” Seminar paper presented at the NASPSPA Conference, St. Pete’s Beach, FL, June, 2005.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, 27S, 121.
58. **Zhu, Q.**, & Shea, J.B. “*The Effect of Switch Practice and Amount of Pre-switch Trials On Task Switching Performance*” Oral paper presented at the AAHPERD National Convention, Chicago, IL, April, 2005.
59. **Zhu, Q.**, & Shea, J.B. “*The Effect of Practice on Task Switching Performance*” Poster presented at the NASPSPA Conference, Vancouver, Canada, June, 2004.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, 26S, 205.
60. **Zhu, Q.**, & Chen, D.P. “*Research on Selective Attention in Modern Badminton Competition with the Technique of Spatial Occlusion*” Poster presented at the NASPSPA Conference, Savannah, GA, June, 2003.
Refereed abstract published in *Journal of Sport & Exercise Psychology*, 25S, 144.

Regional / State

1. **Zhu, Q.** “*Perceptual-motor Learning of Bimanual Coordination and Applications*” invited talk by Department of Health and Exercise Science, Colorado State University, Fort Collins, CO, April 29, 2016.
2. **Zhu, Q.** “*Distinct Visual-motor Control in Discrete and Continuous Fitts’ Tapping*” invited talk by Department of Psychology, Colorado State University, Fort Collins, CO, February 13, 2015.
3. **Zhu, Q.**, Shea, J.B., & Bingham, G.P. “*How People Became Sensitive to the Throwability of an Object: Learning Affordances while Learning to Throw*” Poster presented at the 79th Annual Convention of Rocky Mountain Psychological Association, Albuquerque, NM, April, 2009.

University / Local

1. **Zhu, Q.** “*Studies of Throwing Affordances Inform the Function of Prehistoric Spheroids from the Cave of Hearths*” Invited Talk presented at UW Anthropology Seminar, Laramie, WY, December 8, 2017.
2. **Zhu, Q.** “*Functional Release Control for Successful Long Distance Targeted Throwing*” Oral paper presented at the College of Health Sciences Grand Rounds, Laramie, WY, April, 2013.
3. **Zhu, Q.** “*Does String Tension Make Sense to Badminton Players: A Study of the Affordances of String Tension*” Oral paper presented at the K&H Research Seminar, Laramie, WY, April , 2011.
4. **Zhu, Q.** “*THE SIXTH SENSE: Hefting to Perceive the “Throwability” – A Smart Perception Emerged from Action*” Invited oral paper presented at the UW Physiology Club Seminar, Laramie, WY, April, 2009.
5. Bingham, G.P. & **Zhu, Q.** “*Hefting to perceive the Affordance for Maximum Throwing Distance*”

is a Smart Perceptual Mechanism” Invited oral paper presented at the Cognitive Lunch at Indiana University, Bloomington, IN, November 2008.

6. **Zhu, Q.** “*The Perceptual Information of the Affordance for Throwing*” Invited oral presentation at the Center for Cardiovascular Research and Alternative Medicine (C-CRAM), University of Wyoming, Laramie, WY, September 2008.

➤ **Other Publications:**

1. **Zhu, Q.**, & Chen, D.P. (2002). “Investigating the selective attention in badminton competition using visual occlusion technique”, *Unpublished Thesis for Master of Education degree, Shanghai University of Sport*.
2. **Zhu, Q.**, & Dai, J.B. (1999). “On the specific speed of Badminton”, *China Badminton Coach*, Shanghai, China.
3. Wilson, A. D., Huang, S., **Zhu, Q.**, & Bingham, G. P. (2018, February 20). Age and the Egocentric Constraint on Coordination Stability: An Exploratory Report. <https://doi.org/10.31234/osf.io/hcef2>

➤ **Patent or Copyright**

1. *Motion Tracking Synchronization In Virtual Reality Spaces* by Todd, R.N., **Zhu, Q.**, & Smith, D.T. Pub. No.: US 2020/0410695 A1 / Pub. Date: Dec. 31, 2020.
2. *Software Rendering Real-time Motion Tracking Using Body-attached Sensors in Virtual Reality* by Todd, R.N. and **Zhu, Q.**
 - Software copyright (TXu002080957) effective on December 21, 2017.
 - NASA Technology Transfer System e-NTR #: 1526664571 Case #: HQN-11545-1 Docket #: 18-086 Report Date: 2018-06-25

➤ **Work in Progress:**

Manuscript under Review:

1. Herth, R., **Zhu, Q.**, & Bingham, G. Frequency scaling of unimanual 90° rhythmic coordination: Data and model. Submitted to *Human Movement Science*.
2. **Zhu, Q.**, Wang, X.Y., Palmer, C., & Bingham, G. Social psychology in the task organization of dyadic 90 rhythmic coordination: The coupling is not what you might expect. Submitted to *Human Movement Science*.
3. Wang, X.Y., Feng, Z.C., Yang, M.M., Pan, J., Wilson, M., **Zhu, Q.** Quiet eyes on lower trunk motion enables dancers to overcome the inversion effect in perceiving vertical dance movements. Submitted to *Vision Research*.

Manuscript under Writing:

1. Yan, D., Boggs, C., Watson, R., Smith, D., **Zhu, Q.** The expertise of inter-limb and motor-respiratory coordinations in performing a simulated double-pole task with metronome. Submitted to *International Journal of Sports Science & Coaching*.

Research Projects in Progress:

1. “*Visual Search for Detecting Inverted Point Light Display of Vertical Dance Movements*” (data

- collection completed)
2. “*The Efficacy of Solitary vs. Collaborative Practice in Learning Unimanual Coordination*” (data collection in process)
 3. “*The Adjustment of Upper-Lower Limb Coordination for Swish Shot in Shooting Basketball in Various Distances*” (data collection in process)
 4. “*The Effects of Auditory Cueing on Temporal Patterns of Breaststroke Swimming*” (in preparation)
 5. “*Contrasting Aerobic with Resistance Exercise as an Early Intervention for Treating Alzheimer’s Disease using a Mouse Model*” (in preparation)
 6. “*Learning Affordance of Throwing for Long Distance and Accuracy*” (in preparation)

➤ **Student Research Supervision**

Undergraduate Research Advisees (17)

1. **Kiyona Howard**, 2023 Spring - present
2. **Carly Palmer**, 2022 Spring – 2023 Spring
3. **Emma White**, 2021 Spring
4. **Hannah Burke**, 2020 Fall and 2021 Spring
5. **Autumn Hopkin**, 2018–2019, funded by McNair Scholars Program
6. **Russell Todd**, 2017–2019, received INBRE & NASA Space Grant undergraduate research fellowship
7. **Andrew Amen**, 2016 spring & Summer
8. **Regan Wilson**, 2016 spring
9. **Sean Feehan**, 2016 spring, received EPSCoR undergraduate research fellowship
10. **Dakota Anderson**, 2015 summer, received EPSCoR undergraduate summer research fellowship
11. **Ryan Arey**, 2015 spring, received EPSCoR undergraduate research fellowship
12. **Kara Purcelley**, 2015 – 2016
13. **Andrea Dahil**, 2013 fall, received EPSCoR undergraduate research fellowship
14. **Rob Whittaker**, 2012 spring
15. **Brandon Stoner**, 2012 summer
16. **Caitlin Ann Hudak**, 2011 spring
17. **Todd Mirich**, 2011–2014, supported by the ASPIRE program and received INBRE/EPSCoR undergraduate student research fellowship

Graduate Research Advisees (30)

As a Chair of Student Research Committee:

1. **Mingming Yang**, Biomedical Science Doctoral student, 2023–present
2. **Carly Palmer**, Plan A Masters student, 2023-present
3. **Zhichen Feng**, Plan A Masters student, 2023-present
4. **Dan Yan**, Plan A Masters student, 2021-2023
Thesis Title: *The effects of expertise and movement frequency on the inter-joint coordination and motor-respiratory coordination of cross-county skiers in performing a simulated double-pole task*
5. **Zuoqi Zhang**, Plan A Masters student, 2020-2023
Thesis Title: *Seeing the unseen boundary behind you: predicting the out-of-bounds of flick serves in playing badminton doubles*
6. **Danilo Arruda**, Plan A Masters student, 2019-2021
Thesis Title: *The effects of broken-down focus of attention instructions on volleyball setting*

performance of skilled and novice players

Note: Danilo was accepted by doctoral program of Kinesiology in *Affordance Perception-Action Lab* at the University of Minnesota after graduation

7. **Russell Todd**, Doctoral student, 2019-present, co-chaired with Dr. Amy Banic in Department of Computer Sciences
8. **Shaochen Huang**, Biomedical Science Doctoral student, 2016–2020
Dissertation Title: *The roles of visual and kinesthetic information in learning and control of bimanual coordination*
Note: Shaochen received the *Outstanding Dissertation Award* from UW Office of Graduate Education in 2022
9. **Taylor Kuehn**, Plan A Masters student, 2017-2019
Thesis Title: *The Effect of Kinesiotaping Fatigued Quadriceps and Hamstrings on Knee Joint Position Sense and Biomechanics Associated with ACL Loading in a Jump-landing Task*
Note: Taylor was accepted by Physical Therapy doctoral program at the University of Illinois at Chicago after graduation
10. **Thomas Hart**, Plan A Masters student, 2015–2017
Thesis Title: *Expertise of Interjoint Coordination in Maximum Effort Jumping Towards Different Directions*
11. **Shaocheng Huang**, Plan A Masters student, 2014–2016
Thesis Title: *Combining visual and haptic guidance to maximize the effectiveness of perceptual-motor learning of bimanual coordination*
Note: Shaochen was accepted by Biomedical Science doctoral program at the University of Wyoming after graduation.
12. **Sushma Alphonsa**, Plan A Masters student, 2011–2013
Thesis Title: *Effects of visual illusions on discrete and continuous tapping performance*
Note: Sushma was accepted by Pathokinesiology doctoral program at the Utah State University after graduation

As a Member of Student Research Committee:

1. **Paul Sansah Gyreyiri**, Doctoral student, 2022–present, chaired by Dr. Diksha Shukla in the Department of Electrical Engineering and Computer Science
2. **Ling Li**, Doctoral student 2021-present, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
3. **Yu Song**, Doctoral student, 2020–2023, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
4. **Ling Li**, Plan A Masters student 2019-2021, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
5. **Felix Weese**, Plan B Master student 2017-present, chaired by Dr. Domen Novak in Department of Electrical and Computer Engineering
6. **Anuskha Godse**, Plan A Master student 2016-2018, chaired by Dr. Amy Banic in Department of Computer Science
7. **Angela Benavides**, Plan A Master student 2015-2017, chaired by Dr. Amy Banic in Department of Computer Science
8. **Bradley Beardt**, Plan A Master student 2015-2017, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
9. **Taylor Hinshaw**, Plan A Master student, 2015-2017, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
10. **Rajiv Khadka**, Doctoral student, 2016–2019, chaired by Dr. Amy Ulinski in Department of

Computer Science

11. **Maja Gorsic**, Doctoral student, 2015–2019, chaired by Dr. Domen Novak in Department of Electrical and Computer Engineering
12. **Mara Cosgrove**, Plan A Master student, 2014–2016, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
13. **Mitchell Stephenson**, Plan A Master student, 2013–2015, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
14. **Harry Fisher**, Plan A Master student, 2012–2014, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
15. **Katherine Cawthorn**, Plan A Master student, 2012–2014, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
16. **Neera Pradhan**, Plan B Master student, 2013–2014, chaired by Dr. Amy Ulinski in Department of Computer Science
17. **Erika Heinbaugh**, Plan A Master student, 2012 – 2014, chaired by Dr. Boyi Dai in Division of Kinesiology and Health
18. **Derrick McMahan**, Plan A Master student, 2011–2012, chaired by Dr. Tristan Wallhead in Division of Kinesiology and Health

Host of Visiting Research Scholar/Student (3)

1. **Jieyu Peng**, Master student, 2015–2016, Department of Applied Psychology, Shanghai University of Sport, CHINA
2. **Lingli Chen**, Associate Professor, 2017-2018, School of Humanities and Social Sciences, National University of Defense Technology, CHINA
3. **Jie Wang**, Associate Professor, 2018-2019, School of Physical Education and Coaching, Shanghai University of Sport, CHINA

Teaching Experience:

➤ *University of Wyoming, Laramie*

KIN 3060 Understanding Skill Acquisition for Teaching
KIN 4020 Motor Behavior
KIN 4090 Foundation of Coaching
KIN 5011 Understanding Movement Variability
KIN 5038 Advances in Research of Sport Expertise
KIN 5039 Perception and Action in Motor Skills

➤ *Indiana University, Bloomington*

HPER-T693 Experimental Design and Analysis
HPER-P452 Motor Learning
HPER-E105 Badminton
HPER-E181 Tennis

➤ *Guest Lectures:*

KIN-2000 Movement Core I: Striking/Fielding

University Service:

➤ University of Wyoming

1. Member of Advisory Board for School of Computing, University of Wyoming, WY, (2022 – present)
2. Member of College of Health Science Dean Search Committee, University of Wyoming, WY, 2022
3. Member of University Studies Committee, FYS subcommittee, University of Wyoming, WY, (2020-2023)
4. Member of International Research and Engagement Committee, University of Wyoming, WY (2019-present)
5. International Program Coordinator of UW-SUS Center with support funding from *Shanghai University of Sport* (2019-present)
6. Liaison and coordinator for UW Administrative Delegation to visit *Shanghai Normal University*, *Shanghai University*, and *Shanghai University of Sport* in Shanghai, CHINA, May 2019
7. Member of the Faculty Dispute Resolution Panel, University of Wyoming, WY (2014 – 2017)
8. Steering Committee Member of the Biomedical Sciences (BMS) Doctoral Program, University of Wyoming, WY (2010 – present).

➤ College of Health Sciences

1. Chair of College of Health Science Research Committee (2015 – 2018)
2. Member of College of Health Sciences Research Planning Committee for Institute of Wyoming Health (2015 – present)
3. Member of College of Health Sciences Student Dispute Committee (2015 – present)
4. Member of College of Health Sciences Faculty Development Committee (2015)
5. External member for Plan B Orals Committees, Division of Communication Disorders. (2011 – present).
6. Member of College of Health Sciences Research Committee (2009 – 2012).

➤ Division of Kinesiology and Health

1. Chair of Search Committee for the Assistant Professor position in Rehabilitation Science (2023-2024)
2. UW Faculty Senate representing DKH (2020-present)
3. DKH Intellectual Community Seminar Subcommittee member (2022-2023)
4. International Program Coordinator, responsible for Internationalization of UW-DKH Program (2018 – present), overseeing UW-SUS Center and Nordic Ski Coaching Education Program
5. Member of K&H Committee of revising documents for Tenure and Promotion (2016 – 2017)
6. Search Committee Member for the Assistant Professor position in Exercise Physiology (2014 – 2015).
7. Coordinate to host the delegation from Suzhou University of Science and Technology, June 15–16, 2014
8. Organizer of Human Movement Science Journal Club/Research Seminar for faculty and students in Kinesiology and Health (2013 – 2019)

9. Member of K&H Student Critical Thinking Assessment (CTA) Academy (2013 – 2018).
10. Member of Corbett Building Renovations/Additions Committee (2013 – 2019).
11. Member of K&H Newsletter Committee (2013 – present).
12. K&H Search Committee Member for the Assistant Professor position in Sport & Exercise Biomechanics (2011 – 2012).
13. Coordinator to host Dr. Geoffrey Bingham to give research presentations for K&H, CHS and BMS program students (2010 September).
14. Search Committee Member for the Assistant Professor position in Physical Activity and Health (2010 – 2011).
15. Search Committee Member for the Assistant Professor position in Sport/Exercise Psychology (2009 – 2010).

Professional Service:

➤ ***Professional Memberships:***

1. *Vision Sciences Society*
2. *Institute of Translational Health Sciences at University of Washington*
3. *International Society for Perception and Action*
4. *Rocky Mountain American Psychological Association (RMAPA)*
5. *Rocky Mountain American Society of Biomechanics (RMASB)*
6. *North American Society for the Psychology of Sport and Physical Activity (NASPSPA)*
7. *American Alliance for Health, Physical Education, Recreation and Dance*
8. *USA Badminton Coaching Education Department*
9. *USA Badminton Technical Official Advisory Group*

➤ ***Journal Review***

1. Ad-Hoc reviewer for *Frontiers in Bioengineering and Biotechnology*
2. Ad-Hoc reviewer for *Journal of Sports Sciences*
3. Ad-Hoc reviewer for *Human Movement Science*
4. Ad-Hoc reviewer for *BMC Sports Science, Medicine, and Rehabilitation*
5. Ad-Hoc reviewer for *Frontiers in Psychology: Performance Science*
6. Ad-Hoc reviewer for *International Journal of Sports Science and Medicine*
7. Ad-Hoc reviewer for *Journal of Motor Behavior*
8. Ad-Hoc reviewer for *Journal of Motor Learning and Development*
9. Ad-Hoc reviewer for *The Knee*
10. Ad-Hoc reviewer for *International Journal of Sports Science & Coaching*
11. Ad-Hoc reviewer for *International Journal of Sports Medicine*
12. Ad-Hoc reviewer for *Journal of Applied Biomechanics*
13. Ad-Hoc reviewer for *American Journal of Psychology*
14. Ad-Hoc reviewer for *Research Quarterly of Sport and Exercise Science*
15. Ad-Hoc reviewer for *Research in Sports Medicine*
16. Ad-Hoc reviewer for *Journal of Sport and Health Science*
17. Ad-Hoc reviewer for *Frontiers in Movement Science and Sport Psychology*
18. Ad-Hoc reviewer for *Brain and Cognition*
19. Ad-Hoc reviewer for *Philosophical Psychology*

➤ ***Journal Editorial Board Membership***

1. Advisory Board member for *Journal of Sports Sciences*
2. Editorial Member for *Journal of Educational and Developmental Psychology*
3. Editorial Board Member of *Journal of Bioengineering & Biomedical Science*

➤ ***Book Review***

1. Invited reviewer for a book proposal from the Holcomb Hathaway, Publishers, Inc., Scottsdale, AZ 85258, USA (2013).
2. Invited reviewer for a book proposal from the *Sport and Leisure* section editorial board of Routledge, Taylors & Francis Group Ltd, Oxford, OX14 4RN, UK (2012).

➤ ***Grant Review***

1. Grant Reviewer for Wyoming NASA Space Grant Undergraduate Research Fellowship at University of Wyoming (2019 – 2020)
2. Invited grants reviewer for CTR-IN Pilot Research Grant, Mountain West CTR-IN Program at UNLV (2015 – 2020)
3. Reviewer for CHS Faculty-Grant-In-Aid, CHS Faculty Travel Subsidy, CHS Student Research Grant, CHS Student Poster Award at University of Wyoming (2009 – 2012 & 2015 – 2018)
4. Invited grants reviewer for NSF *The Perception, Action, and Cognition Panel* (2010 & 2017).

➤ ***Professional Services and Other Appointments:***

1. Advisory Board Member representing College of Health Sciences in School of Computing at University of Wyoming (2022-present)
2. Program committee member of *Motor Learning and Control* in NASPSPA (2020-present)
3. Program Committee Member and Undergraduate Student Oral Presentation assessor in Annual Convention of Rocky Mountain American Society of Biomechanics, Este Park, CO in April 2019
4. Research and Planning Committee member in the Wyoming Parkinson Project run by the Patient Centered Outcome Research Institute (PCORI) (2016-2017)
5. Regional liaison in Wyoming for Rocky Mountain Psychological Association (2010 – present)
6. Program Committee Member, Abstract Reviewer and Conference Moderator for the oral paper session of “Perception and Performance” in 79th Annual Convention of Rocky Mountain Psychological Association, Albuquerque, NM, in April 2009
7. Facilitator of Craig Series Lecture at University of Wyoming, WY (2009 April)
8. Coordinator for IU-SUS academic exchange program, Indiana University, IN (2003 – 2007)
9. Director & Coach of IU Badminton Camp, Indiana University, IN (2004 June)
10. President of IU Badminton Club, Indiana University, IN (2002 – 2003)
11. Administration Assistant, China Badminton Association, CHINA (2001 – 2002)
12. Professional badminton player serving Junior National Team of China, CHINA (1983–1995)

Special Skills:

➤ ***Language:*** English and Chinese, proficiency in speaking and writing

➤ ***Badminton:*** USAB National level player, coach, umpire / Badminton Pan America certified umpire