CURRICULUM VITAE

John R. Harry, PhD, CSCS

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EDUCATION

2017 — Doctor of Philosophy (Ph.D.) in Kinesiology (Biomechanics & Research Methods)
Department of Kinesiology & Nutrition Sciences, University of Nevada, Las Vegas, Las Vegas, NV
Dissertation: Biomechanical adjustments during landing in response to task perturbations
Mentor: Janet S. Dufek, Ph.D., FACSM

2014 — Master of Science (M.S.) in Health and Sport Sciences (Exercise & Sport Sciences)
Department of Health & Sport Sciences, The University of Memphis, Memphis, TN
Thesis: Effects of footwear condition on maximal jumping performance
Mentor: Brian K. Schilling, Ph.D., CSCS, FNSCA

2012 — Bachelor of Science (B.S.) in Kinesiology (Sports Studies & Strength and Conditioning)
Department of Kinesiology, California State University, Fullerton, Fullerton, CA
Mentor: Andrew J. Galpin, Ph.D., CSCS

FACULTY APPOINTMENTS

2017 – Present — Assistant Professor (tenure-track), Dept. of Kinesiology & Sport Management, Texas Tech University, Lubbock, TX

Summer 2016 — Adjunct Teaching Faculty, Dept. of Kinesiology and Nutrition Sciences, University of Nevada, Las Vegas, Las Vegas, NV

Summer 2014 — Adjunct Teaching Faculty, Dept. of Health and Sports Science, The University of Memphis, Memphis, TN

RESEARCH TRAINING

2014 – 2017 — Doctoral Graduate Research Assistant, Biomechanics Laboratory, Dept. of Kinesiology & Nutrition Sciences, University of Nevada, Las Vegas, Las Vegas, NV

2012 – 2014 — Graduate Research Assistant, Musculoskeletal Analysis Laboratory, Dept. of Health and Sport Sciences, The University of Memphis, Memphis, TN

INDUSTRY EXPERIENCE

2010 – 2014 — Owner/Human Performance Specialist, Advanced Human Performance, Costa Mesa, CA

2009 – 2012 — Personal Trainer, Campus Recreation, University of California, Irvine, Irvine, CA

2007 – 2014 — Personal Trainer & Strength and Conditioning Coach, Merage JCCOC, Irvine, CA

TEACHING EXPERIENCE

Note: UG = undergraduate; GR = graduate; IR = instructor of record; TA = teaching assistant; * = Beginning Spring 2018

Texas Tech University, Dept. of Kinesiology & Sport Management
- *KIN 4301 – Introduction to Biomechanics* (UG; IR)
- *KIN 5355 – Program Design for Strength & Conditioning* (GR; IR)*

University of Nevada, Las Vegas, Dept. of Kinesiology and Nutrition Sciences
- *KIN 346 – Biomechanics* (UG; IR)
- *KIN 346L – Biomechanics Lab* (UG; IR)
- *KIN 743 – Research Techniques in Biomechanics* (GR; TA)

The University of Memphis, Dept. of Health and Sport Science
- *EXSS 2010 – Resistance Training Applications* (UG; IR)
- *PHED 1302 – Free Weights and Machines* (UG; IR)

PEER-REVIEWED PUBLICATIONS

Note: IF = Impact Factor During year of Publication; N/A = Not Available

Published or In Press:

1. ***Harry, J.R.,*** Paquette, M.R., Caia, J., Townsend, R.J., Weiss, L.W., Schilling, B.K. (2015). Effects of footwear condition on maximal jumping performance. *Journal of Strength & Conditioning Research*, 29(6): 1657-1665. (IF = 2.8)
   Link to Article

2. Dufek, J.S., ***Harry, J.R.,*** Soucy M., Guadagnoli, M., Lounsbery, MAF (2016). Effects of active workstation use on walking mechanics and work efficiency. *Journal of Novel Physiotherapies,* 6: 289. (IF = 1.8)
   Link to Article

3. Bates, B.T., Dufek, J.S., James, C.R., ***Harry, J.R.,*** Eggleston, J.D. (2016). The influence of experimental design on the detection of performance differences. *Measurement in Physical Education and Exercise Science,* 20(4): 200-207. (IF = 1.3)
   Link to Article

4. Townsend, R.J., Bell, S.T., ***Harry, J.R.*** (2016). Accuracy of distraction based lifting criteria for the identification of in-sincere effort utilizing the under loading method. *WORK,* 55:873-882. (IF = 0.8)
   Link to Article

5. Barker, L.A., ***Harry, J.R.,*** Dufek, J.S., Mercer, J.A. (2017). Aerial rotation effects on vertical jump performance among highly skilled collegiate soccer players. *Journal of Strength & Conditioning Research,* 31(4): 932-938. (IF = 2.1)
   Link to Article

6. ***Harry, J.R.,*** Barker, L.A., Mercer, J.A., Dufek, J.S. (2017). Vertical and horizontal impact force comparison during jump-landings with and without rotation in NCAA division 1 male soccer players. *Journal of Strength and Conditioning Research,* 31(7): 1780-1786. (IF = 2.1)
   Link to Article

7. Dufek, J.S., Eggleston, J.D., ***Harry, J.R.,*** Hickman, R.A. (2017). A comparative evaluation of gait between children with autism and typically developing matched controls. *Medical Sciences,* 5(1):1. (IF = N/A)
   Link to Article

8. Eggleston, J.D., ***Harry, J.R.,*** Hickman, R.A., Dufek, J.S. (2017). Analysis of gait symmetry during over-ground walking in children with autism spectrum disorder. *Gait & Posture,* 55:162-166. (IF = 2.4)
   Link to Article

9. ***Harry, J.R.,*** Freedman Silvernail, J., Mercer, J.A., Dufek, J.S. (2017). A bilateral comparison of vertical jump landings and step-off landings from equal heights. *Journal of Strength and Conditioning Research.* (IF = 2.1)
   Link to Article

10. Barker, L.A., ***Harry, J.R.,*** Mercer, J.A. (2017). Relationships between countermovement jump ground reaction forces and jump height, reactive strength index, and jump time. *Journal of Strength and Conditioning Research.* (IF = 2.1)
    Link to Article

11. ***Harry, J.R.,*** Barker, L.A., James, C.R., Dufek, J.S. (In Press). Performance differences among skilled soccer players of different playing positions during vertical jumping and landing. *Journal of Strength and Conditioning Research.* (IF = 2.1)

12. ***Harry, J.R.***, Freedman Silvernail, J., Mercer, J.A., Dufek, J.S. (In Press). Comparison of pre-contact joint kinematics and vertical impulse between jump-landings and step-off landings from equal heights. *Human Movement Science.* (IF = 1.8)

In Review:

13. Dufek, J.S., ***Harry, J.R.,*** Eggleston, J.D., Hickman, R.A. (2017; revision submitted). Walking mechanics and movement pattern variability in monozygotic twins with autism spectrum disorder. *Gait & Posture.*

14. ***Harry, J.R.,*** Eggleston, J.D., Lidstone, D.E., Dufek, J.S. (2017; in review). Investigating weighted vest effects on gait smoothness in children with autism spectrum disorder. *Journal of Autism and Developmental Disorders.*

15. ***Harry, J.R.,*** Barker, L.A., Eggleston, J.D., Dufek, J.S. (2017; revision submitted). Evaluating Performance During Maximum Effort Vertical Jump Landings. *Journal of Applied Biomechanics.*

16. ***Harry, J.R.,*** Paquette, M.R., Schilling, B.K., Barker, L.A., James, C.R., Dufek, J.S. (2017; in review). Sub-Phase Analysis of the Countermovement Vertical Jump to Distinguishing Good Performers from Poor Performers. Target Journal: *Journal of Applied Biomechanics.*

17. Eggleston, J.D., ***Hary, J.R.,*** Dufek, J.S. (2017; in review). Lower extremity joint stiffness during over-ground walking in children with Autism Spectrum Disorders. *Journal of Autism and Developmental Disorders.*

In Preparation:

18. ***Harry, J.R.,*** Mercer, J.A., Freedman Silvernail, J., Dufek, J.S. (In Preparation). Effects of different weight vest load configurations on pre and post-contact mechanics during vertical jump landings. Target Journal: *Journal of Applied Biomechanics.*

19. ***Harry, J.R.***, Barker, L.A., Mercer, J.A., Dufek, J.S. (In preparation). The influence of takeoff and landing distance on total jump distance during the standing long jump. Target Journal: *Journal of Strength and Conditioning Research.*

20. Smith, R.E., Paquette, M.R., ***Harry, J.R.,*** Powell, D.W., Weiss, L.W. (In preparation). Footwear and sex differences in performance and joint kinetics during maximal vertical jumping. Target Journal: *Journal of Sports Sciences.*

21. ***Harry, J.R.,*** Barker, L.A., Paquette, M.R. (In preparation). Joint kinetic differences between good and poor countermovement jumpers. Target Journal: *Human Movement Science.*

CONFERENCE PROCEEDINGS & PUBLISHED ABSTRACTS

1. Weiss, L.W., Caia, J, ***Harry, J.R.,*** Chiu, L.Z.F., Schilling, B.K., Paquette, M.R. Preliminary investigation into the association of longitudinal foot dimensions with countermovement vertical jump displacement. *37th Annual Meeting of the National Strength and Conditioning Association*. Las Vegas, NV. July 9-12, 2014.

2. Weiss, L.W., Caia, J, ***Harry, J.R.,*** Chiu, L.Z.F., Schilling, B.K., Paquette, M.R. Reliability and precision of anthropometric measures of the feet that influence moment arm length of reaction forces. *37th Annual Meeting of the National Strength and Conditioning Association*. Las Vegas, NV. July 9-12, 2014.

3. Schilling, BK, ***Harry, J.R.***, Paquette, M.R., Weiss, L.W., Peterson, D. Footwear-dependent correlations between vertical and standing long jumps. *3rd International Congress on Soldier's Physical Performance.* Boston, MA. August 18-23, 2014.

4. ***Harry, J.R.***, Hickman, R, Lee, S.P., Morris, B, Dufek, J.S. Effects of dual-tasking on spatio-temporal gait parameters in children with cerebral palsy. *33rd Annual Meeting of the American College of Sports Medicine Southwest Chapter.* Costa Mesa, CA. October 17-18, 2014.

5. ***Harry, J.R.,*** Hickman, R, Lee, S.P., Morris, B, Dufek, J.S. Effects of dual-tasking on stability during walking in children with cerebral palsy. *62nd Annual Meeting of American College of Sports Medicine, 6th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise Fatigue*. San Diego, CA. May 26-30, 2015.

6. Eggleston, J.D., ***Harry, J.R.,*** Hickman, R.A., Dufek, J.S. A comparitive evaluation of gait between children with autism and typically developing matched controls. *Proceedings of the 34th Annual Meeting of the American College of Sports Medicine Southwest Chapter*. Costa Mesa, CA. October 16-17, 2015.

7. Dufek, J.S., ***Harry, J.R.,*** Eggleston, J.D., Bates, B.T. A novel data analysis approach for identification of performance differences during locomotion. *Annual Meeting of the Gait & Clinical Movement Analysis Society (GCMAS)*. Memphis, TN. May 17-20, 2016.

8. Hickman, R.A., McConnell, J., Silverman, B., ***Harry, J.R.,*** Lee, S.P., Morris, B., and Dufek, J.S. Evaluating usability and agreement among selected low-and high technology approaches to clinical gait analysis. *NEXT Conference & Exposition from the American Physical Therapy Association*, Nashville, TN. June 8-11, 2016.

9. ***Harry, J.R.,*** Eggleston, J.D., Hickman, R.A., Dufek, J.S. Walking mechanics and within-subject variability in monozygotic twins with autism spectrum disorder. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, NC. August 2-5, 2016.

10. ***Harry, J.R.***, Barker, L.A., Mercer, J.A., Dufek, J.S. Differences in vertical impact forces during landings among soccer players of different playing positions. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, NC. August 2-5, 2016.

11. Barker, L.A., ***Harry, J.R.,*** Dufek, J.S., Mercer, J.A. Performance of aerial rotation during vertical jumping among highly skilled collegiate soccer players. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, NC. August 2-5, 2016.

12. Eggleston, J.D., ***Harry, J.R.,*** Hickman, R.A., Dufek, J.S. Evaluation of gait symmetry in children with autism spectrum disorder. *40th Annual Meeting of American Society of Biomechanics*. Raleigh, NC. August 2-5, 2016.

13. Eggleston, J.D., Flores, L., Mamaung, M., Lidstone, D.E., ***Harry, J.R.,*** Dufek, J.S. Influence of a weighted backpack and weighted vest on gait kinematics in children with autism spectrum disorder. *Annual Meeting of the Northwest Biomechanics Symposium.* Eugene, OR. May 19-20, 2017.

14. Dufek, J.S., Eggleston, J.D., ***Harry, J.R.*** Movement differences between children with autism and children with typical development: Evidence for evaluating the individual before the group. *Annual Meeting of the Gait & Clinical Movement Analysis Society*. Salt Lake City, UT. May 23-26, 2017.

15. Smith, R.E., Powell, D.W., ***Harry, J.R.,*** Weiss, L.W., Paquette, M.R. Footwear differences in lower limb power generation during maximal vertical jumping. *41st Annual Meeting of the American Society of Biomechanics.* Boulder, CO. August 8-11, 2017.

16. ***Harry, J.R.,*** Barker, L.A., Dufek, J.S., James, C.R. Force- and velocity-profile differences between good and poor countermovement vertical jumpers. *65nd Annual Meeting of American College of Sports Medicine, 9th World Congress on Exercise is Medicine and World Congress on the Basic Science of Muscle Hypertrophy and Atrophy.* Minneapolis, MN. May 29-June 02, 2018 (Submitted).

RESEARCH GRANTS & FUNDING

Note: PI = primary investigator; Co-PI = co-primary investigator; Co-I = co-investigator

Funded Proposals:

2013 – 2014
National Strength and Conditioning Association Foundation Graduate Research Grant
Project Title:The effects of footwear condition on maximal jumping performance
Investigator(s): John R. Harry, Brian K. Schilling (mentor)
Role: PI — Total award amount: $5,000

Fall 2014
UNLV Graduate & Professional Student Association Conference Travel Award
Project Title: Effects of dual-tasking on spatio-temporal gait parameters in children with cerebral palsy
Investigator(s): John R. Harry
Role: PI — Total award amount: $200

Fall 2016
UNLV Graduate and Professional Student Association Conference Travel Award. 2016.
Project Title: A Kinetic evaluation of walking between monozygotic twins with autism spectrum disorder
Investigator(s): John R. Harry
Role: PI — Total award amount: $500

2016 – 2017
National Strength and Conditioning Association Foundation Doctoral Research Grant
Project Title: Determining the optimal weight vest dispersion during externally loaded landings.
Investigator(s): John R. Harry, Janet S. Dufek (mentor)
Role: PI — Total award amount: $8,650

Summer 2016
UNLV School of Allied Health Sciences Research Award
Project Title: Mechanical comparison of bilateral squats and landings when loaded and unloaded in individuals with patella-femoral pain syndrome
Investigator(s): John R. Harry, Janet S. Dufek (mentor)
Role: PI — Total award amount: $1,500

Proposals Under Review/In Preparation:

2017
National Science Foundation Innovative Technology Experiences for Students and Teachers (ITEST) Program
Project Title: “Jump Into Stem” program for STEM engagement and workforce readiness
Investigator(s): Heather Greenhalgh-Spencer (PI), Tim Dallas, Kelly Frias, Linda Donahue, John R. Harry
Role: Senior Personnel — Amount requested: $1,160,754

2017 (In Preparation) Simons Foundation Autism Research Initiative – Explorer Award
Project Title: Non-invasive brain stimulation to improve functional mobility in adults with autism
Investigator(s): John R. Harry, Janet S. Dufek, Brach Poston, Jeffrey D. Eggleston, C. Roger James
Role: PI Amount Requested: $70,000

Not Funded Proposals:

2014 American College of Sports Medicine (ACSM) Foundation Doctoral Student Research Grant
Project Title: Effects of shoe mass on vertical jump and landing performance
Investigator(s): John R. Harry, Janet S. Dufek (mentor)
Role: PI Amount requested: $4,984

2015 Simons Foundation Autism Research Initiative – Explorer Award
Project Title: Gait variability in adults with autism: A diagnostic for continued care?
Investigator(s): Janet S. Dufek (PI), Robbin A. Hickman, Julia Freedman Silvernail, Gougen Shan, John R. Harry, Jeffrey D. Eggleston
Role: Co-I Amount requested: $58,546

2015 Autism Speaks Suzanne and Bob Wright Trailblazer Award
Project Title: Variability in loaded and unloaded walking in children with autism: Implications of study design
Investigator(s): Janet S. Dufek (PI), Robbin A. Hickman, Jeffrey D. Eggleston, John R. Harry
Role: Co-I Amount requested: $100,000

2016 Organization for Autism Research Applied Research Competition
Porject Title: Load carriage in children with autism spectrum disorder: establishing maximum load values
Investigator(s): Janet S. Dufek (PI), Robbin A. Hickman, Jeffrey D. Eggleston, John R. Harry
Role: Co-I Amount requested: $30,000

2016 Department of Defense (DOD) Congresionally Directed Medical Research Program
Project Title: Movement variability during stair ascent and descent as a diagnostic tool for children with autism sprectrum disorder
Investigator(s): Janet S. Dufek (PI), Mohamed B. Trabia, Julia Freedman Silvernail, Robbin A. Hickman, Jeffrey D. Eggleston, John R. Harry
Role: Co-I Total award amount: $500,000

2017 Health Disparities Pilot Grant, National Institute of General Medical Sciences (NIGMS, U54GM104944)
Project Title: Non-invasive brain stimulation to improve movement coordination in children with autism
Investigator(s): Brach Poston (PI), Julia Freedman Silvernail, Jeffrey D. Eggleston, John R. Harry, Janet S. Dufek
Role: Senior Personnel Amount requested: $60,000

2017 Department of Defense Autism Research Program – Idea Development Award (W81XWH-17-ARP-IDA)
Project Title: Examination of transcranial direct current stimulation as an intervention for mitigation of movement disorders in persons with autism
Investigator(s): Janet S. Dufek (PI), John R. Harry, Bracher Poston, Gougen Shan, Jeffrey D. Eggleston
Role: Co-PI Total award amount: $500,000

2017 Thrasher Research Fund – Early Career Award
Project Title: Non-invasive brain stimulation to improve ambulatory function in children with autism
Investigator(s): John R. Harry, Brach Poston, Jeffrey D. Eggleston, Janet S. Dufek (mentor)
Role: PI Amount requested: $26,750

INVITED PRESENTATIONS

1. "Ground reaction force and movement: Linking kinetics and kinematics using position-velocity-acceleration relationships." Presented in: KIN 736 – Biomechanical Applications in Kinesiology, Dept. of Kinesiology & Nutrition Sciences, Univeristy of Nevada, Las Vegas. November 2016.

2. "Interviewing for and obtaining a tenure-track faculty position." Presented in: KIN 747 – Graduate Seminar, Dept. of Kinesiology & Nutrition Sciences, University of Nevada, Las Vegas. March 2017.

SERVICE & OUTREACH

Editorial Service:
- The Journal of Strength and Conditioning Research (*JSCR*), Associate Editorial Board Member; 2017 - Present

Manuscript Reviewership:
- The Journal of Strength and Conditioning Research (*JSCR*), Manuscript Reviewer (Ad hoc); 2015 – 2017
- Journal of Applied Biomechanics *(JAB),* Manuscript Reviewer (Ad hoc); 2017 – Present
- Journal of Autism and Developmental Disorders *(JADD),* Manuscript Reviewer (Ad hoc); 2017 - Present

Community Outreach:
- National Biomechanics Day (University of Nevada, Las Vegas), Group Instructor; April 2016
- National Biomechanics Day (University of Nevada, Las Vegas), Group Instructor; April 2017

University Service:
- Kinesiology & Sport Management Junior Faculty Search (Texas Tech University), Search Committee Member; Fall 2017
- Kinesiology & Sport Management Senior Faculty Search (Texas Tech University), Search Committee Member, Fall 2017

RESEARCH MENTORSHIP, TEACHING MENTORSHIP, & ADVISING

Research Mentorship
1. Ethan Mellon, BS (in progress) – Undergraduate Student Research, Texas Tech University

Teaching Mentorship
1. Zackary Noland, MS (in progress) – KIN 4301: Introduction to Biomechanics, Texas Tech University

Academic Advising
1. Scott Ramsey, MS (in progress), Texas Tech Univeristy
2. Ashley Sandoval, MS (in progress), Texas Tech Univeristy

SCHOLARLY AWARDS, FELLOWSHIPS, & HONORS

1. The Musculoskeletal Mechanics & Physiology Achievement Award – Awarded by the Faculty of the Musculoskeletal Analysis Laboratory, The University of Memphis. 2014.

2. The Melvin A. Humphreys Prize for Student Research – Awarded by the College of Education, Health & Human Sciences, The University of Memphis. 2014. $500.

3. Summer Doctoral Research Fellowship – Awarded by the UNLV Graduate College, University of Nevada, Las Vegas, 2017. $7,000.

PROFESSIONAL MEMBERSHIPS

- United States Weightlifting (USAW), Member from 2010 – 2012
- National Strength and Conditioning Association (NSCA), Member since 2012
- American College of Sports Medicine (ACSM), Member since 2014
- Gait & Clinical Movement Analysis Society (GCMAS), Member since 2015
- American Society of Biomechanics (ASB), Member since 2016

PROFESSIONAL CERTIFICATIONS

- CPR/First-Aid/AED – American Red Cross, Certified since 2008
- Certified Fitness Specialist – Orange Coast College, Costa Mesa, CA, Certified since 2009
- United States Weightlifting (USAW) – Sports Performance Specialist, Certified from 2010 – 2013
- Certified Strength and Conditioning Specialist (CSCS®) – NSCA, Certified since 2012