

SHAWN FARROKHI, PT, PhD, DPT

PERSONAL INFORMATION

Business Address:	Chapman University Rinker Health Science Campus 9401 Jeronimo Rd. Irvine, CA 92618	Office Phone: (714) 744-7906 Cell Phone: (818) 625-6277 Email: farrokhi@chapman.edu Email: shawnfarrokhi@gmail.com
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EDUCATION & TRAINING

2010 – 2014	Master of Science – Clinical Research University of Pittsburgh, Pittsburgh, Pennsylvania
2010 – 2014	NIH K12 Career Development Award Comprehensive Opportunities in Rehabilitation Research Training (CORRT)
2004 – 2009	Doctor of Philosophy – Biokinesiology University of Southern California, Los Angeles, California
2000 – 2003	Doctor of Physical Therapy University of Southern California, Los Angeles, California
1997 – 2000	Bachelor of Science – Sports Medicine Pepperdine University, Malibu, California

POSITIONS & EMPLOYMENT

2023 – Current	Chair & Professor Department of Physical Therapy Chapman University, Irvine, California
2021 – 2023	Adjunct Professor Department of Physical Therapy University of Pittsburgh, Pittsburgh, Pennsylvania
2021 – 2023	Associate Professor Department of Rehabilitation Medicine Uniformed Services University of Health Sciences, Bethesda, Maryland
2017 – 2023	Facility Research Director DoD-VA Extremity Trauma & Amputation Center of Excellence Naval Medical Center, San Diego, California
2016 – 2017	Senior Scientist DoD-VA Extremity Trauma & Amputation Center of Excellence Naval Medical Center, San Diego, California

2015 – 2017	Adjunct Assistant Professor Department of Bioengineering University of Pittsburgh, Pittsburgh, Pennsylvania
2015 – 2016	Physical Therapist (Research) DoD-VA Extremity Trauma & Amputation Center of Excellence Naval Medical Center, San Diego, California
2013 – 2015	Co-Director, Human Movement Research Laboratory Departments of Physical Therapy & Bioengineering University of Pittsburgh, Pittsburgh, Pennsylvania
2012 – 2015	Adjunct Assistant Professor Department of Biomedical Engineering Carnegie Mellon University, Pittsburgh, Pennsylvania
2011 – 2015	Research Associate Human Engineering Research Laboratory VA Pittsburgh HealthCare System, Pittsburgh, Pennsylvania
2010 – 2015	Assistant Professor Departments of Physical Therapy & Bioengineering University of Pittsburgh, Pittsburgh, Pennsylvania
2004 – 2009	Teaching Assistant Department of Biokinesiology and Physical Therapy University of Southern California, Los Angeles, California
2007 – 2009	Staff Physical Therapist, Center Coordinator of Clinical Education Huntington Medical Rehabilitation Association, Pasadena, California
2003 – 2007	Staff Physical Therapist Kaiser Permanente, Woodland Hills, California
2003 – 2004	Adjunct Assistant Professor Department of Biokinesiology and Physical Therapy University of Southern California, Los Angeles, California
2003 – 2004	Staff Physical Therapist PRN Torrance Physical Therapy, Torrance, California

HONORS & AWARDS

2022	U.S. Army Medical Command Loan Repayment Award
2020	Outstanding Alumni in Healthcare, Pepperdine University
2019	Distinguished Alumnus Award, Division of Biokinesiology & Physical Therapy; USC
2019	White Coat Ceremony Keynote Address, Division of Biokinesiology & Physical Therapy; USC
2013	National Institutes of Health Student Loan Repayment Award Renewal

- 2011 National Institutes of Health Student Loan Repayment Award
- 2009 Physical Therapy Student Publication Award; California Chapter, APTA
- 2009 Promotion of Doctoral Studies II; Foundation for Physical Therapy
- 2008 Promotion of Doctoral Studies II; Foundation for Physical Therapy
- 2007 Teaching Assistant Fellow; Center for Excellence in Teaching, USC
- 2006 Physical Therapy Student Publication Award; California Chapter, APTA
- 2006 Promotion of Doctoral Studies I; Foundation for Physical Therapy
- 2005 Promotion of Doctoral Studies I; Foundation for Physical Therapy
- 2003 Golden Cane Outstanding Achievement Award; USC
- 2002 Helen Hislop Scholarship in Support of Vision and Excellence in Physical Therapy
- 2002 Gary L. Soderberg Doctor of physical Therapy Scholarship; Foundation for Physical Therapy
- 1999 Pepperdine University Natural Science Award; Pepperdine University

PROFESSIONAL MEMBERSHIPS

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| 2003 – Current | Orthopaedic Section of the APTA; Member |
| 2011 – 2015 | Osteoarthritis Research Society International; Member |
| 2010 – 2010 | Pennsylvania Chapter of the APTA; Member |
| 2003 – 2010 | California Chapter of the APTA; Member |
| 2001 – 2011 | Research Section of the APTA; Member |
| 1998 – 2000 | Golden Key National Honor Society; Member |
| 1995 – 1997 | Alpha Gamma State Honor Society; Member |

PEER REVIEWER

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| 2022 | Congressionally Directed Medical Research Programs (CDMRP) Orthotics & Prosthetics Outcomes Research Program (OPORP) |
| 2022 | Military Health System Research Symposium (MHSRS) |
| 2021 | U.S Army Medical Research and Materiel Command (USAMRMC) Military Operational Medicine Research Program (MOM) |
| 2021 | Military Health System Research Symposium (MHSRS) |
| 2020 | Congressionally Directed Medical Research Programs (CDMRP) Orthotics & Prosthetics Outcomes Research Program (OPORP) |
| 2020 | Military Health System Research Symposium (MHSRS) |
| 2019 | Military Health System Research Symposium (MHSRS) |
| 2018 | Congressionally Directed Medical Research Programs (CDMRP) Orthotics & Prosthetics Outcomes Research Program (OPORP) |

TEACHING EXPERIENCE

2023 – Current	Course Director, Kinesiological Motion Analysis , Department of Physical Therapy, Chapman University
2023 – 2023	Adjunct Instructor, Musculoskeletal Physical Therapy I , Department of Physical Therapy, University of Pittsburgh
2022 – 2022	Adjunct Instructor, Evidence-based Practice II , Department of Physical Therapy, University of Pittsburgh
2016 – 2019	Guest Lecturer, Movement Analysis and Treatment . Department of Physical Therapy, Northern Arizona University.
2011 – 2015	Course Director, Clinical Biomechanics , Department of Physical Therapy, University of Pittsburgh
2010 – 2015	Lecturer, Musculoskeletal Physical Therapy III , Department of Physical Therapy, University of Pittsburgh.
2008 – 2009	Lecturer, Integrated Management of the Upper and Lower Extremities . Division of Biokinesiology and Physical Therapy, University of Southern California, 2008-2009.
2003 – 2008	Lecturer, Clinical Management of Patients with Musculoskeletal Dysfunction . Division of Biokinesiology and Physical Therapy, University of Southern California.
2005 – 2008	Lecturer, Analytical Anatomy . Division of Biokinesiology and Physical Therapy, University of Southern California.
2005 – 2007	Lecturer, Clinical Pharmacology . Division of Biokinesiology and Physical Therapy, University of Southern California.
2006 – 2007	Lecturer, Therapeutic Applications of Physical Agents . Division of Biokinesiology and Physical Therapy, University of Southern California.
2006 – 2006	Guest Lecturer, Therapeutic exercise considerations for patients with shoulder pain . Department of Physical Therapy, California State University, Northridge.
2006 – 2006	Guest Lecturer, Articular Cartilage Biomechanics . Department of Radiology, University of Southern California, 2006.
2006 – 2006	Guest Lecturer, Clinical Techniques: Rehabilitation Modalities . Department of Kinesiology. California State University, Los Angeles, 2006.

CURRENT RESEARCH SUPPORT

2023 – 2027	Defense Health Program US Army Medical Research Acquisition Activity Development of Next-Generation Dynamically Adaptive Orthoses for Distal Extremity Injury Role: Principal Investigator Level of Funding: \$1,250,000
2023 – 2027	Defense Health Program US Army Medical Research Acquisition Activity Enhancing Functional Restoration and Accelerating Return to Duty Following Lower Extremity Autologous Free Flap Harvest Role: Co-Investigator Level of Funding: \$1,408,230
2021 – 2025	Congressionally Directed Medical Research Programs Peer Reviewed Orthopaedic Research Program Exoskeletons for rapid return to duty after tibial stress fracture Role: Co-Investigator Level of Funding: \$1,460,000
2020 – 2024	Congressionally Directed Medical Research Programs A proprioceptive training program using an uneven terrain treadmill for patients with ankle instability. Role: Site Principal Investigator Level of Funding: \$2,429,368
2018 – 2024	NIH-DoD-VA Pain Management Collaboratory Title: Resolving the burden of low back pain in military service members and veterans: A multi-site pragmatic clinical trial. Role: Principal Investigator Level of Funding: \$6,024,816
2018 – 2024	United States Army Medical Research and Development Command Broad Agency Announcement Project Title: Multi-center phase 2 trial to test ability for stem cell therapy to induce palmo-plantar skin at the stump site of amputees. Role: Site Principal Investigator Level of Funding: \$6,400,000

PREVIOUS RESEARCH SUPPORT

2012 – 2014	Center for Medical Innovation Title: Daily web-based <i>interACTION</i> : Rehabilitation through a Wearable Motion Tracking Device Role: Co-Principal Investigator
2012 – 2014	Rehabilitation Institute Pilot Award Title: Biomechanics and Biomarkers of Walking Exercise in Knee Osteoarthritis Role: Principal Investigator
2010 – 2013	Comprehensive Opportunities in Rehabilitation Research Training: A Multi-Center K-12 Career Development Program for Physical and Occupational Therapist funded by the National Center Medical Rehabilitation Research, NICHD; NINDS Title: The Biomechanical Risk Factors Underlying the Link between Patellofemoral Joint Pain and Osteoarthritis Role: Principal Investigator
2011 – 2012	Pepper Center RCDC Small Pilot Funding Program (long term) Title: The Biomechanical Correlates of Multi-Compartmental Knee Osteoarthritis in Older Adults. Role: Principal Investigator
2011 – 2011	Pepper Center RCDC Small Pilot Funding Program (short term) Title: Development and Validation of a Novel Approach for Quantifying Altered Joint Mechanics in Older Adults with Knee Osteoarthritis. Role: Principal Investigator
2007 – 2008	Biomedical Imaging Support for Pilot Studies: Biomedical Imaging Science Initiative/University of Southern California. Title: Is abnormal patellofemoral joint stress associated with articular cartilage changes that are consistent with early-stage osteoarthritis? Role: Principal Investigator

UNDERGRADUATE RESEARCH STUDENTS

Kevin Aghaei, Mechanical Engineering, Rutgers University, 2017
Connor Fitzgerald, Mechanical & Biomedical Engineering, Carnegie Mellon University, 2014
Elizabeth Santucci, Biomedical Engineering, University of Pittsburgh, 2014
Shannon Gorman, Biomedical Engineering, University of Pittsburgh, 2014
Paige Kendall, Biomedical Engineering, University of Pittsburgh, 2013-2014
Megan Robinson, Chemical & Biomedical Engineering, University of Pittsburgh, 2013-2014
Kyle Berkow, Biomedical Engineering, University of Pittsburgh, 2013-2014
Meghan Kaffine, Electrical & Computer Engineering, Carnegie Mellon University, 2013

Adam Veenis, Biomedical Engineering, University of Pittsburgh, 2012-2013
Julie Rekant, Mechanical & Biomedical Engineering, Carnegie Mellon University, 2012

GRADUATE RESEARCH STUDENTS

Marissa Smola, Doctor of Physical Therapy, University of Southern California, 2023

Role: Research advisor

Zachary Rollar, Doctor of Physical Therapy, University of Pittsburgh, 2022

Role: Research advisor

Carla Kinnunen, Doctor of Physical Therapy, University of Southern California, 2022

Role: Research advisor

Tyler Peterson, Doctor of Physical Therapy, University of Southern California, 2022

Role: Research advisor

Therese Parr, Biomedical Engineering, Clemson University, 2022

Role: Research advisor

Danlin (Caroline) Bao, Doctor of Physical Therapy, University of Southern California, 2022

Role: Research advisor

Alyssa Burkitt, Doctor of Physical Therapy, San Diego State University, 2021

Role: Research advisor

Christina Terracciano, Doctor of Physical Therapy, University of Southern California, 2021

Role: Research advisor

Jenny Carmel, Doctor of Physical Therapy, San Diego State University, 2021

Role: Research advisor

Consuelo (Coco) Vigilar, Doctor of Physical Therapy, University of Southern California, 2020

Role: Research advisor

Lily Seynaeve, Doctor of Physical Therapy, San Diego State University, 2020

Role: Research advisor

Paige Paulus, Doctor of Physical Therapy, University of Pittsburgh, 2020

Role: Research advisor

Mattie Roesch, Doctor of Physical Therapy, University of Southern California, 2020

Role: Research advisor

Alexandra Tutino, Doctor of Physical Therapy, San Diego State University, 2020

Role: Research advisor

Lev Williams, Master of Science, Oak Ridge Institute for Science & Education, 2019 – 2022

Role: Research advisor

David Honda, Doctor of Physical Therapy, University of Southern California, 2019

Role: Research advisor

Laura Bechard, Doctor of Physical Therapy, University of Pittsburgh, 2019

Role: Research advisor

Kenneth Dong, Master of Science in Biomedical Engineering, University of California San Diego, 2017

Role: Research advisor

Sarah Ruegg, Doctor of Physical Therapy, University of Southern California, 2019

Role: Research advisor

Susan Boehl, Doctor of Physical Therapy, University of Southern California, 2019
 Role: Research advisor

Jenny Ross, Doctor of Physical Therapy, San Diego State University, 2019
 Role: Research advisor

Marissa Abegg, Doctor of Physical Therapy, San Diego State University, 2018
 Role: Research advisor

Troy Ewing, Doctor of Physical Therapy, Northern Arizona University, 2018
 Role: Research advisor

Scott Dickenson, Doctor of Physical Therapy, University of Southern California, 2018
 Role: Research advisor

Sarah Nalbandian, Doctor of Physical Therapy, San Diego State University, 2018
 Role: Research advisor

Ari Baquet, Doctor of Physical Therapy, University of Southern California, 2018
 Role: Research advisor

Benjamin Vasko, Doctor of Physical Therapy, San Diego State University, 2017
 Role: Research advisor

Rachel Torbitzky (Sleeman), Doctor of Physical Therapy, Northern Arizona University, 2017
 Role: Research advisor

Vanessa Freedman, Doctor of Physical Therapy, University of Southern California, 2017
 Role: Research advisor

Samantha Zhang, Master of Science in Biomed Engineering, University of California San Diego, 2017
 Role: Research advisor

Chelsea Weedman, Doctor of Physical Therapy, University of Southern California, 2017
 Role: Research advisor

Alex Cascone, Doctor of Physical Therapy, University of Southern California, 2016
 Role: Research advisor

Katherine Schmitz, Doctor of Physical Therapy, University of Southern California, 2016
 Role: Research advisor

Nimesh Lad, Master of Science in Biomedical Engineering, Carnegie Mellon University, 2014
 Role: Research advisor

Enqun Zhou, Master of Science in Biomedical Engineering, Carnegie Mellon University, 2014
 Role: Research advisor

Brad Meholic, Doctor of Physical Therapy, University of Pittsburgh, 2013 – 2014
 Role: Research advisor

Dachan Kwon, Master of Science in Biomedical Engineering, Carnegie Mellon University, 2013
 Role: Research advisor

Yen-Sheng Lin, Doctor of Philosophy, School of Health and Rehabilitation Science, University of Pittsburgh, 2011 – 2013
 Role: Member, doctoral dissertation committee
 Title: Ultrasonographic Measurement of Acromiohumeral Distance in Manual Wheelchair Users

Lynn Worobey, Doctor of Philosophy, Biomedical Engineering, University of Pittsburgh, 2011 – 2013
 Role: Member, doctoral dissertation committee
 Title: Freehand Three-Dimensional Ultrasound to Evaluate Scapular Movement

Megan O'Connell, Doctor of Physical Therapy, University of Pittsburgh, 2012 – 2013

Role: Research advisor

Jake Divone, Master of Science in Biomedical Engineering, Carnegie Mellon University, 2013

Role: Research advisor

Jonathan Gustafson, Doctor of Philosophy, Biomed Engineering, University of Pittsburgh, 2012 –2017

Role: Dissertation Advisor

Title: Development and Validation of a Discrete Element Analysis Model of the Patellofemoral Joint

POST-DOCTORAL FELLOWS

Paige Paulus, Oak Ridge Institute for Science & Education, Naval Medical Center San Diego, 2022 – 2023

Irene Zhao, Oak Ridge Institute for Science & Education, Naval Medical Center San Diego, 2019 – 2021

Carrie Ann Voycheck, Department of Physical Therapy, University of Pittsburgh, 2011 – 2012

PUBLICATIONS

Peer Reviewed Manuscripts (Trainee mentored to publication*)**

1. Highsmith MJ, **Farrokhi S**, Mayer JM. Technical Note: What Exercises are Appropriate for Management of Back Pain in Persons with Lower Limb Amputation? *Technol. Innov.* 2023; (In Press).
2. Pontillo M, Gunterstockman BM, Mauntel TC, **Farrokhi S**. The Association between Kinesiophobia and Functional Limitations in Service Members with Knee Pain. *Musculoskelet. Sci. Pract.* 2023; (In Press).
3. Gunterstockman BM, Russell Esposito E, Yoder A, Smith C, **Farrokhi S**. Weight Changes in Young Service Members After Lower Limb Amputation: Insights From Group-Based Trajectory Modeling. *Mil. Med.* 2023; (In Press).
4. Lee SP, **Farrokhi S**, Kent J, Ciccotelli J, Chien LC, Smith JA. Comparison of Clinical and Biomechanical Characteristics between Individuals with Lower Limb Amputation with and without Lower Back Pain: A Systematic Review and Meta-Analysis. *J. Biomech.* 2022; (In Press).
5. Mazzone BM, Knight AD, Mahon CE, Childers WL, Cagle T, Hendershot BD, **Farrokhi S**. Relationship between phantom limb pain, function, and psychosocial health in individuals with lower limb loss. *Prosthet Orthot Int.* 2023; 47(2):181-188.
6. Kerns RD, Burgess DJ, Coleman BC, Cook CE, **Farrokhi S**, Fritz JM, Goertz C, Heapy A, Lisi AJ, Rhon DI, Vining R. Chronic Pain Self-Management: Psychologically Guided Core Competencies for Providers. *Pain Med.* 2022; 23(11):1815-9.
7. Cancio JM, Eskridge S, Shannon K, Orr A, Mazzone B, **Farrokhi S**. Development of Overuse Musculoskeletal Conditions after Combat-Related Upper Limb Amputation: A Retrospective Cohort Study. *J Hand Ther.* 2022; 36(1):66-73.

8. Butowicz CM, Yoder AJ, **Farrokhi S**, Mazzone B, Hendershot BD. Low Back Pain Influences Lumbar-Lower Limb Joint Coordination and Balance Control during Standing in Persons with Lower Limb Loss. *Clin Biomech.* 2022; 92:105580.
9. Russell Esposito E, **Farrokhi S**, Shuman BR, Sessoms PH, Szymanek E, Hoppes CW, Halle R, Bechard L, King D, Fraser JJ. Uneven treadmill training for rehabilitation of lateral ankle sprains and chronic ankle instability: a pragmatic randomized controlled trial. *JMIR Res. Protoc.* 2022; 11(6):e38442.
10. Rhon DI, Fritz JM, Kerns RD, McGeary DD, Coleman BC, **Farrokhi S**, Burgess D, Goertz C, Taylor S, Hoffman T. TIDieR-Telehealth: Precision in Reporting of Telehealth Interventions used in Clinical Trials - Unique considerations for the Template for the Intervention Description and Replication (TIDieR) Checklist. *BMC Med. Res. Methodol.* 2022; 22(1): 1-11.
11. Dubuc YZ, Mazzone B, Yoder AJ, Russell-Esposito E, Kang TH, Loh KJ, **Farrokhi S**. Ankle Sprain Bracing Solutions and Future Design Consideration for Civilian and Military Use. *Expert Rev. Med. Devices.* 2022; 19(2):113-22.
12. Ali J, Antonelli M, Bastian L, Becker W, Brandt CA, Burgess DJ, Burns A, Cohen SP, Davis AF, Dearth CL, Dziura J, Edwards R, Erdos J, **Farrokhi S**, Fritz J, Geda M, George SZ, Goertz C, Goodie J, Hastings SN, Heapy A, Ilfeld BM, Katsovich L, Kerns RD, Kyriakides TC, Lee A, Long CR, Luther SL, Martino S, Matheny ME, McGeary D, Midboe A, Pasquina P, Peduzzi P, Raffanello M, Rhon D, Rosen M, Esposito ER, Scarton D, Hastings SN, Seal K, Silliker N, Taylor S, Taylor SL, Tsui M, Wright FS, Zeliadt S. Optimizing the Impact of Pragmatic Clinical Trials for Veteran and Military Populations: Lessons From the Pain Management Collaboratory. *Mil Med.* 2022; 187(7-8):179-85.
13. Mazzone B, Yoder AJ, Condon R, **Farrokhi S**. Clinical Application of Foot Strike Run Retraining for Service Members with Chronic Knee Pain. *BMJ Mil Health.* 2022; 168(4):303-7.
14. Yoder AJ, Petrella AJ, **Farrokhi S**. Sensitivity of a Subject-Specific Ankle Sprain Simulation to Extrinsic versus Intrinsic Biomechanical Factors. *Front. Bioeng. Biotechnol.* 2021; 9:765331.
15. Butowicz CM, Yoder AJ, **Farrokhi S**, Mazzone B, Hendershot BD. Lower limb joint-specific contributions to standing postural sway in persons with unilateral lower limb loss. *Gait & posture.* 2021; 89:109-14.
16. Watrous J, McCabe CT, Moran G, Mazzone M, **Farrokhi S**, Eskridge S, Hendershot BD, Galarneau M. The Relationships Between Self-Reported Pain Intensity, Pain Interference, and Quality of Life Among Injured U.S. Service Members With and Without Low Back Pain. *J Clin Psychol Med Settings.* 2021; 7: 1-11.
17. *Gustafson JA, Elias JJ, Fitzgerald GK, Tashman S, Debski RE, **Farrokhi S**. Combining advanced computational and imaging techniques as a quantitative tool to estimate patellofemoral joint stress during downhill gait: A feasibility study. *Gait & Posture.* 2021; 84:31-7.

18. Fritz JM, Davis AF, Burgess DJ, Coleman B, Cook C, **Farrokhi S**, Goertz C, Heapy A, Lisi AJ, McGeary DD, Rhon DI, Taylor SL, Zeliadt S, Kerns RD. Pivoting to Virtual Delivery for Managing Chronic Pain with Nonpharmacological Treatments – Implications for Pragmatic Research. *Pain*. 2021; 162(6):1591-6.
19. Ho K, Chen Y, **Farrokhi S**, Tsai L, Liao T, Haas N, Powers C.M. Selective atrophy of the vastus medialis: Does it exist in females with patellofemoral pain? *Am J Sports Med*. 2021; 49(3):700-5.
20. **Farrokhi S**, Russell Esposito E, McPherson D, Condon R, Patterson C.G, Schneider M, Greco C.M, Delitto A, Highsmith M.J, Hendershot B.D, Maikos J, Dearth CL. Resolving the Burden of Low Back Pain in Military Service Members and Veterans (RESOLVE): Protocol for a Multi-Site Pragmatic Clinical Trial. *Pain Med*. 2020; 21(Supplement_2): S45-52.
21. *Yepson H, Mazzone B, Eskridge S, Shannon K, Awodele E, **Farrokhi S**. The Influence of Tobacco Use, Alcohol Consumption, and Weight Gain on Development of Secondary Musculoskeletal Injury after Lower Limb Amputation. *Arch Phys Med Rehabil*. 2020; 101(10):1704-10.
22. Mazzone B, **Farrokhi S**, Hendershot B.D, McCabe CT, Watrous JR. Prevalence of Low Back Pain and Relationship to Mental Health Symptoms and Quality of Life after a Deployment-Related Lower Limb Amputation. *Spine*. 2020; 45(19):1368-75.
23. Butowicz CM, Silfies SP, Jennifer J, **Farrokhi S**, Hendershot BD. Characterizing and understanding the low back pain experience among persons with lower limb loss. *Pain Med*. 2020; 21(5):1068-77.
24. Watrous JR, McCabe CT, Jones G, **Farrokhi S**, Mazzone B, Clouser MC, Galarneau MR. Low Back Pain, Mental Health Symptoms, and Quality of Life Among Injured Service Members. *Health Psychol*. 2020; 39(7): 549-557.
25. *Baquet A, Mazzone B, Yoder A, **Farrokhi S**. Conversion to a Rearfoot Strike Pattern During Running for Prevention of Recurrent Calf Strains: A Case Report. *Phys Ther Sport*. 2020; 1;41:64-70.
26. Cancio J, Orr A, Eskridge S, Shannon K, Mazzone B, **Farrokhi S**. Occupational Therapy Practice Patterns for Military Service Members With Upper Limb Amputation. *Mil Med*. 2020; 185(3-4), 444-450.
27. Kerns RD, Brandt CA, Peduzzi P, and NIH-DoD-VA Pain Management Collaboratory. NIH-DoD-VA Pain Management Collaboratory. *Pain Med*. 2019; 20(12):2336-45.
28. **Farrokhi S**, Mazzone, B., Moore, J.L., Shannon, K. and Eskridge, S. Physical Therapy Practice Patterns for Military Service Members with Lower Limb Loss. *Mil Med*. 2019; 184(11-12):e907-13.
29. Yoder AJ, Mazzone BN, Miltenberger RS, **Farrokhi S**. Biomechanical improvements following foot strike biofeedback training for a patient using a passive dynamic ankle-foot orthosis during running. *Prosthet Orthot Int*. 2019; 43(4), 447-452.

30. Yoder AJ, Silder AB, **Farrokhi S**, Dearth CL, Hendershot BD. Lower Extremity Joint Contributions to Trunk Control During Walking in Persons with Transtibial Amputation. *Sci. Rep.* 2019; 9(1):1-8.
31. *Gustafson JA, Elias JJ, Debski RE, **Farrokhi S**. Development and Validation of a Kinematically-Driven Discrete Element Model of the Patellofemoral Joint. *J Biomech.* 2019; 88:164-72.
32. *Gustafson JA, Anderton W, Sowa GA, Piva SR, **Farrokhi S**. Dynamic Knee Joint Stiffness and Contralateral Knee Joint Loading during Prolonged Walking in Patients with Unilateral Knee Osteoarthritis. *Gait & Posture.* 2019; 68:44-9
33. Highsmith MJ, Goff LM, Lewandowski AL, **Farrokhi S**, Hendershot BD, Hill OT, Rábago CA, Russell-Espósito E, Orriola JJ, Mayer JM. Low Back Pain in Persons with Lower Extremity Amputation: A Systematic Review of the Literature. *Spine J.* 2019; 19(3):552-63.
34. Mazzone B, **Farrokhi S**, DePratti A, Stewart J, Rowe K, Wyatt M. A Retrospective Review of High-level Performance After the Return to Run Clinical Pathway in Patients Using the Intrepid Dynamic Exoskeletal Orthosis. *J Orthop Sports Phys Ther.* 2019; 13(0):1-26.
35. *Jayabalan P, Gustafson JA, Sowa GA, Piva SR, **Farrokhi S**. Stimulus-response Framework to Investigate the Influence of Continuous Versus Interval Walking Exercise on Select Serum Biomarkers in Knee Osteoarthritis. *Am J Phys Med Rehabil.* 2019; 98(4):287-291.
36. **Farrokhi S**, Perez K, Eskridge S, Clouser M. Major deployment-related amputations of lower and upper limbs, active and reserve components, US Armed Forces, 2001-2017. *MSMR.* 2018; 25(7):10-6.
37. **Farrokhi S**, Mazzone B, Eskridge S, Shannon K, Hill O. Incidence of Overuse Musculoskeletal Injuries in Military Service Members with Traumatic Lower Limb Amputation. *Arch Phys Med Rehabil.* 2018; 99(2), 348-354.
38. **Farrokhi S**, Mazzone B, Schneider M, Gombatto S, Mayer J, Highsmith MJ, Hendershot BD. Biopsychosocial Risk Factors Associated with Chronic Low Back Pain after Lower Limb Amputation. *Medical Hypotheses.* 2017; 108:1-9.
39. **Farrokhi S**, Jayabalan P, Gustafson JA, Klatt BA, Sowa GA, Piva SR. The Influence of Continuous Versus Interval Walking Exercise on Knee Joint Loading and Pain in Patients with Knee Osteoarthritis. *Gait & Posture.* 2017; 56:129-33.
40. **Farrokhi S**, Mazzone B, Yoder A, Grant K, Wyatt M. A Narrative Review of the Prevalence and Risk Factors Associated With Development of Knee Osteoarthritis After Traumatic Unilateral Lower Limb Amputation. *Mil Med.* 2016; 181(S4):38-44.
41. Rábago CA, Clouser M, Dearth CL, **Farrokhi S**, Galarneau MR, Highsmith MJ, Wilken JM, Wyatt MP, Hill OT. The Extremity Trauma and Amputation Center of Excellence: Overview of the Research and Surveillance Division. *Mil Med.* 2016; 181(S4):3-12.

42. **Farrokhi S**, Chen YF, Piva SR, Fitzgerald GK, Jeong JH, Kwoh CK. The Influence of Knee Pain Location on Symptoms, Functional Status, and Knee-related Quality of Life in Older Adults With Chronic Knee Pain: Data From the Osteoarthritis Initiative. *Clin J Pain*. 2016; 32(6):463-70.
43. **Farrokhi S**, Voycheck CA, Gustafson JA, Fitzgerald GK, Tashman S. Knee Joint Contact Mechanics during Downhill Gait and its Relationship with Varus/Valgus Motion and Muscle Strength in Patients with Knee Osteoarthritis. *The Knee*. 2016; 23(1):49-56.
44. *O'Connell M, **Farrokhi S**, Fitzgerald GK. The Role of Knee Joint Kinetics and Knee Impairments on Self-reported Knee Pain during Gait in Patients with Knee Osteoarthritis. *Clin Biomech*. 2016; 31(1): 40–46.
45. Piva SR, **Farrokhi S**, Almeida G, Fitzgerald GK, Levison TJ, DiGioia AM. Dose-Associated Changes in Gait Parameters in Response to Exercise Programs after Total Knee Arthroplasty: Secondary Analysis of Two Randomized Studies. *Int J Phys Med Rehabil*. 2015;3(6):3-7.
46. *Gustafson JA, Fitzgerald GK, **Farrokhi S**. Alterations in Walking Knee Joint Stiffness in Individuals with Knee Osteoarthritis and Self-reported Knee Instability. *Gait & Posture*. 2015; 43 (1): 210-215.
47. **Farrokhi S**, Meholic B, Chuang WN, Gustafson JA, , Fitzgerald GK, Tashman S. Altered Frontal and Transverse Plane Tibiofemoral Kinematics and Patellofemoral Malalignments During Downhill Gait in Patients with Mixed Knee Osteoarthritis. *J Biomech*. 2015; 48(10), 1707-1712.
48. *Gustafson JA, Robinson ME, Fitzgerald GK, Tashman S, **Farrokhi S**. Knee motion variability in patients with knee osteoarthritis: the effect of self-reported instability. *Clin Biomech*. 2015; 30(5):475-80.
49. Alibeji N, Kirsch N, **Farrokhi S**, Sharma N. Further Results on Predictor-based Control of Neuromuscular Electrical Stimulation. *IEEE Trans. Neural Syst. Rehabil. Eng*. 2015; 23(6):1095-105.
50. **Farrokhi S**, O'Connell M, Gil AB, Sparto PJ, Fitzgerald GK. Altered Gait Characteristics in Individuals with Knee Osteoarthritis and Self-reported Knee Instability. *J Orthop Sports Phys Ther*. 2015; 45(5):351-9.
51. Liao TC, Yang N, Ho KY, **Farrokhi S**, Powers CM. Femur Rotation Increases Patella Cartilage Stress in Females with Patellofemoral Pain. *Med Sci Sports Exerc*. 2015; 47(9):1775-80.
52. **Farrokhi S**, O'Connell M, Fitzgerald GK. Altered gait biomechanics and increased knee-specific impairments in patients with coexisting tibiofemoral and patellofemoral osteoarthritis. *Gait & Posture*. 2015; 41(1): 81–85.
53. *Lin YS, Boninger ML, Worebey LA, **Farrokhi S**, Koontz AM. Effects of Repetitive Shoulder Activity on the Subacromial Space in Manual Wheelchair Users. *BioMed Research International*. 2014;1-9.

54. **Farrokhi S**, Voycheck CA, Klatt BA, Gustafson JA, Tashman S, Fitzgerald GK. Altered Tibiofemoral Joint Contact Mechanics and Kinematics in Patients with Knee Osteoarthritis and Episodic Complaints of Joint Instability. *Clin Biomech.* 2014; 29(6): 629–635.
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