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Education

PhD	University of Southern California – Los Angeles, CA	2007-2012	Biokinesiology
MS	National Cheng Kung University – Tainan, Taiwan	2002-2004	Physical Therapy
BS	National Cheng Kung University – Tainan, Taiwan	1998-2002	Physical Therapy

Licensure

- Nevada State Board of Physical Therapy Examiners, License # 3256 (12/2015-present)
- New York State Education Department, Physical Therapy License # 038087 (8/2014-7/2017)
- Taiwan Ministry of Health and Welfare, Physical Therapy License # 2904 (8/2002-present)

Certifications

- None

Employment

July 2019 – present	Associate Professor (Tenured) – Department of Physical Therapy, School of Integrated Health Sciences, University of Nevada, Las Vegas
July 2019 – present	Associate Professor (Adjunct) – School of Medicine, University of Nevada, Las Vegas
Mar 2018 – June 2019	Assistant Professor (Adjunct) – School of Medicine, University of Nevada, Las Vegas
Aug 2013 – June 2019	Assistant Professor (Tenure-track) – Department of Physical Therapy, School of Integrated Health Sciences, University of Nevada, Las Vegas
Aug 2007 – Dec 2012	Research Assistant/ Teaching Assistant – Division of Biokinesiology & Physical Therapy, School of Dentistry, University of Southern California
July 2006 – July 2007	Teaching Assistant – School and Graduate Institute of Physical Therapy, College of Medicine, National Taiwan University
July 2004 – Feb 2006	Staff Physical Therapist - Sports Medicine Center, Chang Gung Memorial Hospital, Kaohsiung, Taiwan

Peer Reviewed Publications ([Google Scholar](#))

1. **Ho KY**, Cummins A, Khuu C, Parker S, Shepherd S. Comparisons of patellar bone mineral density between individuals with and without patellofemoral pain. *The Knee*. 2020; 27(3): 846-853.
2. Liang JN, **Ho KY**. Altered Achilles tendon morphology in individuals with chronic post-stroke hemiparesis: A case report. *BMC Medical Imaging*. 2020; 20(1): 34
3. **Ho KY**, Liang JN. Calcium Pyrophosphate Deposition Disease in the Achilles Tendon. *Journal of the Belgian Society of Radiology*. 2019; 103(1): 79, 1–2.
4. **Ho KY**, Harty M, Kellogg J, Teter K, Lee SP, Chang YJ, Basford G. Patellar tendon morphology in trans-tibial amputees utilizing a prosthesis with a patellar-tendon-bearing feature. *Nature Scientific Reports*. 2019; 9, 16392.
5. Liang JN, Lee YJ, Akoopie E, Conway B, Koch T, **Ho KY**. Impaired H-reflex adaptations following slope

- walking in individuals with post-stroke hemiparesis. *Frontiers in Physiology*. 2019; 10: 1232.
6. **Ho KY**, Liang JN. Asymmetric crying faces syndrome. *Journal of Pediatrics*. 2019; 212: 235.
 7. **Ho KY**, Baquet A, Chang YJ, Chien LC, Harty M, Basford G, Kulig K. Factors related to intra-tendinous morphology of Achilles tendon in runners. *Plos One*. 2019; 14(8):e0221183
 8. **Ho KY**, Deaver BB, Nelson T, Turner C. Using a mobile application to assess knee valgus in healthy and post-anterior cruciate ligament reconstruction participants. *Journal of Sport Rehabilitation*. 2019; 28(5): 532-535.
 9. **Ho KY**, McClaren J, Sudweeks S. Acute effects of walking on the deformation of femoral articular cartilage in older adults. *Journal of Geriatric Physical Therapy*. 2019; 42(3): E35-E41.
 10. **Ho KY**, Gross R, Gaal W, Nguyen A. Incomplete Fracture of the Anterior Superior Iliac Spine. *Journal of Orthopaedic & Sports Physical Therapy*. 2019; 49 (5): 355-355.
 11. **Ho KY**, Laskowski B, Garcia D, Hardy C, Puentedura E. Measurement of anterior translation of the mandibular condyle using sonography. *The Journal of Physical Therapy Science*. 2019; 31 (1), 116-121.
 12. **Ho KY**, French T, Klein B, Lee Y. Patellofemoral joint stress during incline and decline running. *Physical Therapy in Sport*. 2018; 34: 136-140.
 13. **Ho KY**, Epstein R, Garcia R, Riley N. Effects of patellofemoral taping on patellofemoral joint alignment and contact area. *Journal of Orthopaedic & Sports Physical Therapy*. 2017; 47 (2): 115-123.
 14. **Ho KY**, Kulig K. Changes in water content in response to an acute bout of eccentric loading in a patellar tendon with a history of tendinopathy: a case report, *Physiotherapy Theory and Practice*. 2016; 32 (7): 566-570.
 15. **Ho KY**, Standerfer A, Ngo S, Daun K, Lee SP. Effects of Fast Walking on Tibiofemoral Bone Water Content in Middle-aged Adults. *Clinical Biomechanics*. 2016; 37: 65-69.
 16. **Ho KY**, Ho S, Colletti P.M. Use of ultrasonography for assessing treatment efficacy in a case with ankylosis of the temporomandibular joint, *Journal of Orthopaedic & Sports Physical Therapy*. 2016; 46(3):225.
 17. Liao TC, Young N, **Ho KY**, Farrokhi S., Powers C.M. Internal Rotation of the Femur Increases Patella Cartilage Stress: Evaluation Using Finite Element Analysis in Persons with Patellofemoral Pain, *Medicine & Science in Sports & Exercise*. 2015; 47(9):1775-80.
 18. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Recreational runners with patellofemoral pain exhibit elevated patella water content. *Magnetic Resonance Imaging*. 2014; 32(7):965-8.
 19. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Running-induced patellofemoral pain fluctuates with changes in patella water content. *European Journal of Sport Science*. 2014;14(6):628-34.
 20. Powers C.M., **Ho KY**, Chen YJ, Souza R.B., Farrokhi S. Patellofemoral joint stress during weight bearing and non-weight bearing exercises. *Journal of Orthopaedic & Sports Physical Therapy*. 2014; 44(5):320-327.
 21. **Ho KY**, Keyak J.H., Powers C.M. Comparison of patella bone strain between females with and without patellofemoral pain: a finite element analysis study. *Journal of Biomechanics*. 2014; 47(1): 230-236.
 22. **Ho KY**, Hu H.H., Keyak J.H., Colletti P.M., Powers C.M. Measuring bone mineral density with Fat-Water MRI: Comparison with computed tomography. *Journal of Magnetic Resonance Imaging*. 2013; 37 (1): 237-242.
 23. **Ho KY**, Blanchette M.G., Powers C.M. The influence of heel height on patellofemoral joint kinetics during walking. *Gait and Posture*. 2012; 36 (2): 271-275.
 24. **Ho KY**, Hsu AT. Displacement of the head of humerus while performing "mobilization with movements" in glenohumeral joint: A cadaver study. *Manual Therapy*. 2009; 14(2): 160-166.
 25. Hwang IS, Lin YC, **Ho KY**. Modulation of soleus H-reflex amplitude and variance during pretibial contraction--effects of joint position and effort level. *International Journal of Neuroscience*. 2002;

Refereed Articles in Review

1. **Ho KY**, Chen YJ, Farrokhi S, Tsai LC, Liao TC, Haas N, Powers CM. Selective atrophy of the vastus medialis: Does it exist in females with patellofemoral pain? *Submitted*.
2. Joines K, Cummins A, **Ho KY**, Catalino T. Use of Treatment Frequency and Duration Guidelines in Outpatient Pediatric Physical Therapy Services. *Submitted*.

Peer Reviewed Scientific and Professional Presentations

1. **Ho KY**, Stone K. Asymmetries in Dynamic Valgus Index after Anterior Cruciate Ligament Reconstruction. *2021 APTA Combined Sections Meeting*, February 24-27, 2021. (submitted).
2. Clark Z, Duvall C, Fox T, Howden C, Barrett, T, **Ho KY**. Is Trunk Flexion a Contributing Factor to Patellofemoral Joint Loading in Runners with Patellofemoral Pain? *2021 APTA Combined Sections Meeting*, February 24-27, 2021. (submitted).
3. Arches J, Keohane M, Lee J, Simon A, **Ho KY**, Liang JN. Altering Somatosensory Input Via Different Footwear to Improve Walking in People with Chronic Post-Stroke Hemiparesis. *2021 APTA Combined Sections Meeting*, February 24-27, 2021. (submitted).
4. Shih Y, Stone K, **Ho KY**. Lower Extremity Support Moment and Distribution of Joint Moments during Sloped Running. *2020 Annual American Society of Biomechanics Meeting*, Atlanta, GA, USA, August 4-7, 2020. Submitted.
5. Cummins A, Khuu C, Parker S, Shepherd S, **Ho KY**. Comparisons of Patellar Bone Mineral Density between Individuals with and without Patellofemoral Pain. *2020 APTA Combined Sections Meeting*, Denver, CO, USA, February 12-15, 2020.
6. **Ho KY**, Cummins A, Khuu C, Parker S, Shepherd S. Comparisons of Patellar Bone Mineral Density between Individuals with and without Patellofemoral Pain. *6th International Patellofemoral Pain Syndrome Research Retreat*, Milwaukee, Wisconsin, USA, October 1-3, 2019.
7. **Ho KY**, Lee SP, Evers M, Kellogg J, Teter K, Chang, Y, Bashford, G. Patellar Tendon Morphology in Trans-Tibial Amputees Utilizing a Prosthesis with a Patellar-Tendon-Bearing Feature. *2019 APTA Combined Sections Meeting*, Washington, DC, USA, January 23-26, 2019.
8. Baquet A, **Ho KY**, Chang YJ, Fietzer A, Strassberg C, Evers M, Bashford G, Kulig K. 2D ultrasound-based characterization of Achilles tendon micromorphology in runners using spatial frequency parameters. *2018 American College of Sports Medicine Annual Meeting*, Minneapolis, MN, USA, May 29 – June 2, 2018.
9. **Ho KY**, Turner C, Benson B, Nelson T. Reliability and validity of using a mobile application to assess knee motion in healthy and post-anterior cruciate ligament reconstruction subjects. *2018 APTA Combined Sections Meeting*, New Orleans, LA, USA, February 21-24, 2018
10. **Ho KY**, French T, Klein B, Lee Y. Downhill running increases patellofemoral joint stress. *2018 APTA Combined Sections Meeting*, New Orleans, LA, USA, February 21-24, 2018
11. Bagwell J, **Ho KY**, Powers C.M. Finite element analysis of the tibial tuberosity osteotomy with anteromedialization procedure for patella instability. *2017 Annual American Society of Biomechanics Meeting*, Boulder, CO, USA, August 8-11, 2017.
12. **Ho KY**, Sudweeks S, McClaren J. Acute effects of walking on the deformation of femoral articular cartilage. *2017 APTA Combined Sections Meeting*, San Antonio, TX, USA, February 15-18, 2017
13. **Ho KY**, Basar B, Hahn D, Javier C. Reliability of Measuring Anterior Translation of the Mandibular Condyle during Mouth Opening Using Ultrasonography. *2017 APTA Combined Sections Meeting*, San Antonio, TX, USA, February 15-18, 2017
14. Standerfer A, Ngo S, Daun K, Lee SP, **Ho KY**. Locomotion-induced shock loading and tibiofemoral joint bone stress injury. *2016 APTA Combined Sections Meeting*, Anaheim, California, USA, February 17-20, 2016

15. Epstein R, Garcia R, Riley N, Lee SP, Turner C, **Ho KY**. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. *2016 APTA Combined Sections Meeting, Anaheim, California, USA, February 17-20, 2016*
16. Epstein R, Garcia R, Riley N, Lee SP, Turner C, **Ho KY**. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. *4th International Patellofemoral Pain Research Retreat, Manchester, UK, September 2-4, 2015.*
17. Epstein R, Garcia R, Riley N, Lee SP, Turner C, **Ho KY**. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. *2015 Kinesio Taping Association International Research Symposium, Tokyo, Japan, November 21-23, 2015.*
18. **Ho KY**, Ho S. Physical therapy for ankylosis of temporomandibular joint: a case report. *2015 APTA Combined Sections Meeting, Indianapolis, Indiana, February 4-7, 2015.*
19. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Recreational runners with patellofemoral pain exhibit elevated patella water content. *New Investigator Workshop on Advancing Arthritis Research, Pentagon City, VA, USA, April 6, 2014.*
20. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Recreational runners with patellofemoral pain exhibit elevated patella water content. *7th Annual Interdisciplinary Research & Scholarship Day, UNLV, Las Vegas, Nevada, April 21, 2014.*
21. Liao TC, **Ho KY**, Farrokhi S, Powers CM. Comparison of patella and femur cartilage stress in healthy and symptomatic females. *3rd International Patellofemoral Pain Syndrome Research Retreat, Vancouver, Canada, September 18-19, 2013.*
22. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Recreational runners with patellofemoral pain exhibit elevated patella water content. *3rd International Patellofemoral Pain Syndrome Research Retreat, Vancouver, Canada, September 18-19, 2013.*
23. **Ho KY**, Powers C.M. Comparison of patella bone strain between individuals with and without patellofemoral pain. *2012 Annual American Society of Biomechanics Meeting, Gainesville, FL, USA, August 15-18, 2012.*
24. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Patella water content and bone marrow lesions in individuals with patellofemoral pain: evaluation using water-fat MRI. *ISMRM Scientific Workshop: Fat-Water Separation: Insights, Application & Progress in MRI, Long Beach, CA, USA: February 19-22, 2012.*
25. **Ho KY**, Hu H.H., Nayak K.S., Colletti P.M., Powers C.M. The influence of running on patellar water content and bone marrow lesions in females with and without patellofemoral pain. *2nd International Patellofemoral Pain Syndrome Research Retreat, Ghent, Belgium, August 31- September 2, 2011.*
26. Yang N.H., **Ho KY**, Farrokhi S., Powers C.M. Increase patella cartilage stress with internal femoral rotation: Evaluation Using Finite Element Analysis. *2nd International Patellofemoral Pain Syndrome Research Retreat, Ghent, Belgium, August 31- September 2, 2011.*
27. Teng HL, **Ho KY**, Powers C.M. Utilizing a forward trunk lean during running decreases patellofemoral joint stress. *2nd International Patellofemoral Pain Syndrome Research Retreat, Ghent, Belgium, August 31- September 2, 2011.*
28. **Ho KY**, Mokarram N., Yang N.H., Vaziri A., Powers C.M. Estimation of patella bone stress: a comparison of homogeneous and heterogeneous finite element models. *2011 Annual American Society of Biomechanics Meeting, Long Beach, CA, USA, August 10-13, 2011.*
29. Yang N.H., **Ho KY**, Farrokhi S., Powers C.M. Increase patella cartilage stress with internal femoral rotation: Evaluation Using Finite Element Analysis. *2011 Annual American Society of Biomechanics Meeting, Long Beach, CA, USA, August 10-13, 2011.*
30. Teng HL, **Ho KY**, Powers C.M. The influence of sagittal-plane trunk posture on patellofemoral joint stress during running. *2011 Annual American Society of Biomechanics Meeting, Long Beach, CA, USA, August 10-13, 2011.*

31. **Ho KY**, Hu H.H., Keyak J.H., Colletti P.M., Powers C.M. Comparisons of bone density measurements between quantitative computed tomography and magnetic resonance IDEAL imaging. *19th Meeting of the International Society of Magnetic Resonance in Medicine*, Montreal, Canada, May 7-13, 2011.
32. **Ho KY**, Yang N.H., Farrokhi S., Powers C.M. The influence of patella cartilage thickness on patella bone stress in females with and without patellofemoral pain. *2010 Annual American Society of Biomechanics Meeting*, Providence, RI, USA, August 18-21, 2010.
33. Yang N.H., **Ho KY**, Farrokhi S., Powers C.M. Increase patellofemoral joint stress with internal femoral rotation: a finite element analysis. *2010 Annual American Society of Biomechanics Meeting*, Providence, RI, USA, August 18-21, 2010.
34. **Ho KY**, Hu H.H., Nayak K.S., Colletti P.M., Powers C.M. The influence of running on patellar water content and bone marrow edema in females with and without patellofemoral pain. *18th Meeting of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010.
35. **Ho KY**, Chinkulprasert C, Blanchette M.G., Powers C.M. The influence of heel height on patellofemoral joint stress during walking. *2009 Gait and Clinical Movement Analysis Society Meeting*, Denver, CO, USA, March 10-13, 2009.
36. **Ho KY**, Chen YJ, Farrokhi S., Souza R.B., Powers C.M. Patellofemoral joint stress during weightbearing and non-weightbearing exercises. *2009 Combined Sections Meeting of American Physical Therapy Association*, Las Vegas, NV, USA, February 2-6, 2009.
37. **Ho KY**, Chen YJ, Farrokhi S., Souza R.B., Powers C.M. Patellofemoral joint stress during weightbearing and non-weightbearing exercises. *Southern California Conference on Biomechanics*, Thousand Oaks, CA, USA, April 11-12, 2008.
38. **Ho KY**, Hsu AT. Displacement of the head of humerus while performing "mobilization with movements" in glenohumeral joint. *2004 Annual Conference of Physical Therapy Association of the Republic of China*, Taipei, Taiwan, September 25-26, 2004.

Abstracts

1. Cummins A, Khuu C, Parker S, Shepherd S, **Ho KY**. Comparisons of Patellar Bone Mineral Density between Individuals with and without Patellofemoral Pain. *2020 APTA Combined Sections Meeting*. Available at: <https://www.jospt.org/doi/full/10.2519/jospt.2020.50.1.CSM1>
2. Baquet A, **Ho KY**, Chang YJ, Fietzer A, Strassberg C, Evers M, Bashford G, Kulig K. 2D ultrasound-based characterization of Achilles tendon micromorphology in runners using spatial frequency parameters. *2018 American College of Sports Medicine Annual Meeting*. Available at: <http://www.acsmannualmeeting.org/wp-content/uploads/2016/05/Full-2018-Abstract-File.pdf>
3. Bagwell J, **Ho KY**, Powers C.M. Finite element analysis of the tibial tuberosity osteotomy with anteromedialization procedure for patella instability. *2017 Annual American Society of Biomechanics Meeting*. Available at: http://www.asbweb.org/conferences/2017/abstracts/ASB2017_Abstracts.pdf
4. **Ho KY**, Turner C, Benson B, Nelson T. Reliability and validity of using a mobile application to assess knee motion in healthy and post-anterior cruciate ligament reconstruction subjects. *2018 APTA Combined Sections Meeting. Journal of Orthopaedic and Sports Physical Therapy*. 2018; 48 (2): A30-66. Available at: <http://www.jospt.org/doi/pdf/10.2519/jospt.2018.48.1.A30>
5. **Ho KY**, French T, Klein B, Lee Y. Downhill running increases patellofemoral joint stress. *2018 APTA Combined Sections Meeting. Journal of Orthopaedic and Sports Physical Therapy*. 2018; 48 (2): A30-66. Available at: <http://www.jospt.org/doi/pdf/10.2519/jospt.2018.48.1.A30>
6. **Ho KY**, Sudweeks S, McClaren J. Acute effects of walking on the deformation of femoral articular cartilage. *2017 APTA Combined Sections Meeting. Journal of Orthopaedic and Sports Physical Therapy*. 2017; 47 (1): A58-A161. Available at: <http://www.jospt.org/doi/abs/10.2519/jospt.2017.47.1.A58>

7. **Ho KY**, Basar B, Hahn D, Javier C. Reliability of Measuring Anterior Translation of the Mandibular Condyle during Mouth Opening Using Ultrasonography 2017 APTA Combined Sections Meeting. *Journal of Orthopaedic and Sports Physical Therapy*. 2017; 47 (1): A58-A161. Available at: <http://www.jospt.org/doi/abs/10.2519/jospt.2017.47.1.A58>
8. Epstein R, Garcia R, Riley N, Lee SP, Turner C, **Ho KY**. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. *British Journal of Sports Medicine*. 2016; 50: A1. Available at: <http://bjsm.bmj.com/content/50/14/e1.full.pdf+html>
9. Standerfer A, Ngo S, Daun K, Lee SP, **Ho KY**. Locomotion-induced shock loading and tibiofemoral joint bone stress injury. 2016 APTA Combined Sections Meeting. *Journal of Orthopaedic and Sports Physical Therapy*. 2016; 46 (1): A2-A28. Available at: <http://www.jospt.org/doi/abs/10.2519/jospt.2016.46.1.A58>.
10. Epstein R, Garcia R, Riley N, Lee SP, Turner C, **Ho KY**. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. 2016 APTA Combined Sections Meeting. *Journal of Orthopaedic and Sports Physical Therapy*. 2016; 46 (1): A2-A28. Available at: <http://www.jospt.org/doi/abs/10.2519/jospt.2016.46.1.A58>.
11. **Ho KY**, Ho S. Physical therapy for ankylosis of temporomandibular joint: a case report. 2015 APTA Combined Sections Meeting. *Journal of Orthopaedic and Sports Physical Therapy*. 2015; 45 (1): A 47-A 451. Available at: http://www.jospt.org/doi/full/10.2519/jospt.2015.45.1.A74#.VWde7c_BzRY.
12. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Recreational runners with patellofemoral pain exhibit elevated patella water content. *New Investigator Workshop on Advancing Arthritis Research*, in print.
13. Liao TC, **Ho KY**, Farrokhi S, Powers CM. Comparison of patella and femur cartilage stress in healthy and symptomatic females. *British Journal of Sports Medicine*. 2014; 48 (6): e1. Available at: <http://bjsm.bmj.com/content/48/6.toc>
14. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Recreational Runners with Patellofemoral Pain Exhibit Elevated Patella Water Content. *British Journal of Sports Medicine*. 2014; 48 (6): e1. Available at: <http://bjsm.bmj.com/content/48/6.toc>
15. **Ho KY**, Powers C.M. Comparison of patella bone strain between individuals with and without patellofemoral pain. 2012 Annual American Society of Biomechanics Meeting. Available at: http://www.asbweb.org/conferences/2012/topics/ASBAbstracts_final.pdf
16. **Ho KY**, Hu H.H., Colletti P.M., Powers C.M. Patella water content and bone marrow lesions in individuals with patellofemoral pain: evaluation using water-fat MRI. *ISMRM Scientific Workshop: Fat-Water Separation: Insights, Application & Progress in MRI*. Available at: <http://ismrm.org/workshops/FatWater12/posters.htm>
17. **Ho KY**, Hu H.H., Nayak K.S., Colletti P.M., Powers C.M. The influence of running on patellar water content and bone marrow lesions in females with and without patellofemoral pain. *Journal of Orthopaedic & Sports Physical Therapy*. 2012;42:A29-A30. Available at: <http://www.jospt.org.ezproxy.library.unlv.edu/doi/full/10.2519/jospt.2012.0301>
18. Yang N.H., **Ho KY**, Farrokhi S., Powers C.M. Increase patella cartilage stress with internal femoral rotation: Evaluation Using Finite Element Analysis. *Journal of Orthopaedic & Sports Physical Therapy*. 2012;42:A1. Available at: <http://www.jospt.org.ezproxy.library.unlv.edu/doi/full/10.2519/jospt.2012.0301>
19. Teng HL, **Ho KY**, Powers C.M. Utilizing a forward trunk lean during running decreases patellofemoral joint stress. *Journal of Orthopaedic & Sports Physical Therapy*. 2012;42:A21-A22. Available at: <http://www.jospt.org.ezproxy.library.unlv.edu/doi/full/10.2519/jospt.2012.0301>
20. **Ho KY**, Mokarram N., Yang N.H., Vaziri A., Powers C.M. Estimation of patella bone stress: a comparison of homogeneous and heterogeneous finite element models. 2011 Annual American Society of Biomechanics Meeting. Available at: <http://www.asbweb.org/conferences/2011/pdf/184.pdf>

21. Yang N.H., **Ho KY**, Farrokhi S., Powers C.M. Increase patella cartilage stress with internal femoral rotation: Evaluation Using Finite Element Analysis. *2011 Annual American Society of Biomechanics Meeting*. Available at: <http://www.asbweb.org/conferences/2011/pdf/432.pdf>
22. Teng HL, **Ho KY**, Powers C.M. The influence of sagittal-plane trunk posture on patellofemoral joint stress during running. *2011 Annual American Society of Biomechanics Meeting*. Available at: <http://www.asbweb.org/conferences/2011/pdf/392.pdf>
23. **Ho KY**, Hu H.H., Keyak J.H., Colletti P.M., Powers C.M. Comparisons of bone density measurements between quantitative computed tomography and magnetic resonance IDEAL imaging. *2011 19th Meeting of the International Society of Magnetic Resonance in Medicine*. Available at: <http://cds.ismrm.org/protected/11MProceedings/files/1125.pdf>
24. **Ho KY**, Yang N.H., Farrokhi S., Powers C.M. The influence of patella cartilage thickness on patella bone stress in females with and without patellofemoral pain. *2010 Annual American Society of Biomechanics Meeting*. Available at: <http://www.asbweb.org/conferences/2010/abstracts/136.pdf>
25. Yang N.H., **Ho KY**, Farrokhi S., Powers C.M. Increase patellofemoral joint stress with internal femoral rotation: a finite element analysis. *2010 Annual American Society of Biomechanics Meeting*. Available at: <http://www.asbweb.org/conferences/2010/abstracts/105.pdf>
26. **Ho KY**, Hu H.H., Nayak K.S., Colletti P.M., Powers C.M. The influence of running on patellar water content and bone marrow edema in females with and without patellofemoral pain. *2010 18th Meeting of the International Society for Magnetic Resonance in Medicine*. Available at: http://cds.ismrm.org/protected/10MProceedings/files/803_1371.pdf
27. **Ho KY**, Chinkulprasert C, Blanchette M.G., Powers C.M. The influence of heel height on patellofemoral joint stress during walking. *2009 Gait and Clinical Movement Analysis Society Meeting*, in print.
28. **Ho KY**, Chen YJ, Farrokhi S., Souza R.B., Powers C.M. Patellofemoral joint stress during weightbearing and non-weightbearing exercises. *2009 Combined Sections Meeting of American Physical Therapy Association*, in print.
29. **Ho KY**, Chen YJ, Farrokhi S., Souza R.B., Powers C.M. Patellofemoral joint stress during weightbearing and non-weightbearing exercises. *2008 Southern California Conference on Biomechanics*, in print.
30. **Ho KY**, Hsu AT. Displacement of the head of humerus while performing “mobilization with movements” in glenohumeral joint. *2004 Annual Conference of Physical Therapy Association of the Republic of China*, in print.

Non-Peer Reviewed Publications

1. **Ho KY**. Patellofemoral pain in runners, *Taiwan Physical Therapists Association Journal*, 54, 2004.
2. **Ho KY**. Exercise performance in patients with end-stage heart failure after implantation of a left ventricular assist device and after heart transplantation, *Taiwan Physical Therapists Association Journal*, 25, 2002.

Non-Peer Reviewed Presentations

1. “The Influence of Mechanical Loading on Bone Injury and Bone Water Content of the Knee Joint” School of Nursing Brown Bag Lunch Session, University of Nevada, Las Vegas- 3/2015 (1 hour presentation)
2. “The influence of patellofemoral joint loading on patella strain and patella water content in female runners with patellofemoral pain: mechanisms, findings, and clinical implications” Lambda Kappa Delta Pre-Physical Therapy Honor Society, University of Nevada, Las Vegas- 11/2013 (1 hour presentation)
3. “The Influence of Patellofemoral Joint Loading on Patella Strain and Patella Water Content in Females with Patellofemoral Pain” Ho Physical Therapy, Beverly Hills, California -6/2013 (1 hour presentation)

presentation)

4. "The Influence of patellofemoral joint loading on patella stress, patella water content, and bone marrow lesions in individuals with patellofemoral pain" Department of Physical Therapy, National Yang Ming University, Taipei, Taiwan- 12/2012 (1 hour presentation)

Funded/In Review Grant Activity

- Budge S, Madriaga A, Meske K, Nguyenton D, Liang JN, **Ho KY**. How does patellofemoral pain affect the functioning of the brain and spinal cord? A systematic review with meta-analysis. UNLVPT Student Opportunity Research Grant 2020. \$4,340
- Barton M, Guerrero K, Martinez A, Umagat A, **Ho KY**, Hilgenkamp T. Balance in Individuals with Down syndrome. UNLVPT Student Opportunity Research Grant 2020. \$250
- Lum R, Roys C, Souza T, Stopka D, **Ho KY**, Hilgenkamp T. Examining the effects of a 12-week exercise program on gait in adults with Down syndrome. UNLVPT Student Opportunity Research Grant 2020. \$250
- Clark Z, Fox T, DuVall C, Howden C, Barrett T, **Ho KY**. Is a decreased trunk flexion angle a contributing factor to increased patellofemoral joint loading in runners with patellofemoral pain? UNLVPT Student Opportunity Research Grant 2019. \$4,288
- Arches J, Keohane M, Lee J, Simon A, **Ho KY**, Liang JN. Effects of altered somatosensory input on lower limb mechanics via different shoes and barefoot walking in individuals with chronic post-stroke hemiparesis. UNLVPT Student Opportunity Research Grant 2019. \$4,865
- **Ho KY**, Lee D, Lee SP. Knee Pain, Tendon Degeneration, and Limb-Socket Dynamics in Trans-Tibial Amputees. UNLV Faculty Opportunity Award. 2018. \$ 19,999.
- Liang JN, Kinney J, **Ho KY**, Shan G. Modifying the spinal circuitry to improve walking in individuals post-stroke. UNLV Faculty Opportunity Award. 2018. \$ 20,000.
- Cummins C, Khuu C, Parker S, Shepherd S, **Ho KY**. Comparisons of Patellar Bone Mineral Density between Individuals with and without Patellofemoral Pain. UNLVPT Student Opportunity Research Grant 2018. \$4,100
- Hung V, Reilly A, Wood R, Yuskov N, **Ho KY**, Liang JN. Effects of Foot Tactile Stimuli on Propulsion Force, Ankle Kinematics, and Muscle Activations in Patients with Chronic Post-Stroke Hemiparesis. UNLVPT Student Opportunity Research Grant 2018. \$2,000
- Evers M, Kellogg J, McQueary K, Lee SP, **Ho KY**. Patellar tendon morphology in trans-tibial amputees utilizing a patellar-tendon-bearing prosthesis. UNLVPT Student Opportunity Research Grant 2017. \$580
- Ackley C, Aki K, Arias J, Trinh J, **Ho KY**, Liang JN. Effects of altering walking speed on propulsion force, ankle kinematics, and muscle activations in patients with chronic post-stroke hemiparesis. UNLVPT Student Opportunity Research Grant 2017. \$1,880
- French T, Klein B, Lee Y, **Ho KY**. Patellofemoral Joint Stress during Uphill and Downhill Running. UNLVPT Student Opportunity Research Grant 2016. \$720
- Benson B, Nelson T, Turner T, **Ho KY**. The reliability and validity of using a mobile application to assess knee motion in healthy and post-anterior cruciate ligament reconstruction subjects. UNLVPT Student Opportunity Research Grant 2016. \$1,340
- Basar B, Hahn D, Javier C, Puentedura E, Mah J, **Ho KY**. Measurement of the temporomandibular joint arthrokinematics by ultrasound and magnetic resonance imaging: a reliability and validity study. UNLVPT Student Opportunity Research Grant 2015. \$3,000
- Javier C, **Ho KY**. Measurement of the temporomandibular joint arthrokinematics by ultrasound and magnetic resonance imaging: a reliability and validity study. UNLV Graduate & Professional Student Association Research Grant 2015. \$ 950
- McClaren J, Sudweeks S, **Ho KY**. Acute effects of walking on the deformation of femoral articular

cartilage of the knee. UNLVPT Student Opportunity Research Grant 2015. \$2,125

- Sudweeks S, **Ho KY**. Acute effects of walking on the deformation of femoral articular cartilage of the knee. UNLV Graduate & Professional Student Association Research Grant 2015. \$800
- **Ho KY**, SP Lee, Turner C, Madsen S. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. UNLV Faculty Opportunity Award. 2014. \$ 20,098
- Epstein R, Garcia R, Riley N, **Ho KY**. The effects of patellofemoral taping on patellofemoral joint alignment and contact area. UNLVPT Student Opportunity Research Grant 2014. \$4,941
- Daun K, Ngo S, Standerfer A, **Ho KY**. The Effects of locomotion-induced shock loading on tibiofemoral bone stress injury. UNLVPT Student Opportunity Research Grant 2014. \$4,100
- Standerfer A, Ho KY. The Effects of Locomotion-induced shock loading on tibiofemoral bone stress injury. UNLV Graduate & Professional Student Association Research Grant 2014. \$ 800
- **Ho KY**. The influence of patellofemoral joint loading on patella bone stress, patella water content, and bone marrow lesions in individuals with patellofemoral pain. ISB Student Dissertation Grant. 2011. \$ 5,000.
- **Ho KY**. The influence of patellofemoral joint loading on patella bone stress, patella water content, and bone marrow lesions in individuals with patellofemoral pain. USC 3.0 T MRI Pilot Research Grant. 2011. \$ 6,000.

Previous Grant Submissions

- **Ho KY**, Liang JN. Characterizing Spinal Circuit and Musculotendinous Functions in Stroke Survivors. Mountain West Clinical and Translational Research Infrastructure Network (CTR-IN) Pilot Grant Funding, \$ 60,000 (not funded), 2020.
- **Ho KY**, Liang JN. Characterizing Spinal Circuit and Musculotendinous Functions in Stroke Survivors: Implications for Clinical Practices. Goergen High Impact/ High Priority Grant, Foundation for Physical Therapy, \$120,000 (not funded), 2019.
- Liang JN, **Ho KY**. Targeted retraining of dysfunctional spinal circuitry to improve walking in people post-stroke. Mountain West Clinical and Translational Research Infrastructure Network (CTR-IN) Health Disparities Pilot Grant, \$ 60,000 (not funded), 2019.
- **Ho KY**, Liang JN. Characterizing Spinal Circuit and Musculotendinous Functions in Stroke Survivors: Implications for Clinical Practices. Mountain West Clinical and Translational Research Infrastructure Network (CTR-IN) Health Disparities Pilot Grant, \$ 60,000 (not funded), 2019.
- **Ho KY**, Liang JN. Characterization of the Spinal Reflex Circuit Function and Achilles Tendon Composition and Morphology in Individuals with Chronic Post-stroke Hemiparesis. Foundation for Physical Therapy, \$ 39,973 (not funded), 2018.
- Liang JN, **Ho KY**. Classification of individuals with post-stroke hemiparesis using integrity of the spinal circuitry to predict walking function. W.M. Keck Foundation, \$ 655,973 (not funded), 2018.
- **Ho KY**, Lee SP, Dufek J, Aguila E. Knee Pain and Patellar Tendon Degeneration in Trans-Tibial Amputees. Department of Defense Orthotics and Prosthetics Outcomes Research Program (OPORP), \$ 495, 332, (not funded), 2018.
- **Ho KY**, Lee SP. Influence of Patellofemoral Joint Loading on Patella Water Content in Female NCAA Basketball Players. Bone Stress Injury Call for Proposal, NBA & GE Healthcare Orthopedics and Sports Medicine Collaboration, \$298,609 (not funded), 2017
- **Ho KY**, Lee SP. Locomotion-Induced Shock Loading and Tibiofemoral Joint Bone Stress Injury. Arthritis Foundation, \$573,350 (not funded), 2015
- **Ho KY**, Lee SP, Ma B, Schuerman S. Effects of Locomotion-Induced Shock Loading on Tibiofemoral Bone Stress Injury. Clinical and Translational Research Infrastructure Network Pilot Grant Program, NIH Mountain West IDeA , \$81,630 (not funded), 2014

- **Ho KY**, Lee SP, Ma B, Schuerman S. Effects of Locomotion-Induced Shock Loading on Tibiofemoral Bone Stress Injury. Clinical and Translational Research Infrastructure Network Pilot Grant Program, NIH Mountain West IDeA , \$44,605 (not funded), 2013

Current/Active Research Activity

- Budge S, Madriaga A, Meske K, Nguyenton D, Liang JN, **Ho KY**. How does patellofemoral pain affect the functioning of the brain and spinal cord? A systematic review with meta-analysis. *writing stage*
- Barton M, Guerrero K, Martinez A, Umagat A, **Ho KY**, Hilgenkamp T. Balance in Individuals with Down syndrome. *data collection stage*
- Lum R, Roys C, Souza T, Stopka D, **Ho KY**, Hilgenkamp T. Examining the effects of a 12-week exercise program on gait in adults with Down syndrome. *data collection stage*
- Clark Z, Fox T, DuVall C, Howden C, Barrett T, **Ho KY**. Is a decreased trunk flexion angle a contributing factor to increased patellofemoral joint loading in runners with patellofemoral pain?, *data collection stage*
- Arches J, Keohane M, Lee J, Simon A, **Ho KY**, Liang JN. Effects of altered somatosensory input on lower limb mechanics via different shoes and barefoot walking in individuals with chronic post-stroke hemiparesis, *data collection stage*
- Hung V, Reilly A, Wood R, Yuskov N, **Ho KY**, Liang JN. Effects of Foot Tactile Stimuli on Propulsion Force, Ankle Kinematics, and Muscle Activations in Patients with Chronic Post-Stroke Hemiparesis, *writing stage*
- Ackley C, Aki K, Arias J, Trinh J, **Ho KY**, Liang JN. Effects of altering walking speed on propulsion force, ankle kinematics, and muscle activations in patients with chronic post-stroke hemiparesis, *writing stage*
- Bagwell JJ, **Ho KY**, Powers CM. Finite element analysis of the tibial tuberosity anteromedialization procedure for patella instability, *writing stage*

Membership in Scientific/Professional Organizations

- Member American College of Sports Medicine (2018 to present)
- Member American Physical Therapy Association (2012 to present)
 - Member Orthopedic Section of American Physical Therapy Association (2014 to present)
 - Member Research Section of American Physical Therapy Association (2018 to present)
- Member American Society of Biomechanics (2010 to present)
- Member International Society of Biomechanics (2009 to present)
- Member International Society of Magnetic Resonance in Medicine (2010 to present)
 - Member Musculoskeletal Imaging Group (2017 to present)

Consultative and Advisory Positions

- Manuscript Reviewer
 - Journal of Orthopaedic & Sports Physical Therapy (2012 to present)
 - Magnetic Resonance in Medicine (2014 to present)
 - BioMedical Engineering OnLine (2014 to present)
 - GeoScience (2016 to present)
 - BMC Musculoskeletal Disorders (2017 to present)
 - The Knee (2017 to present)
 - Complementary Therapies in Clinical Practice (2018 to present)
 - Physical Therapy in Sport (2018 to present)
 - Scientific Reports (2019 to present)
 - Brazilian Journal of Physical Therapy (2019 to present)

- Committee Member
 - Subcommittee on Trainee Stipends, International Society of Magnetic Resonance in Medicine (2018 to present)

Community Service

- None

Services to the University/School/Department on Committees/Councils/Commissions

- Department of Physical Therapy
 - Chair- Media Committee (2015 to present)
 - Member- Bylaws Committee (2019 to present)
 - Member- Scholarship Committee (2019 to present)
 - Member- Academic Review Committee (2018 to present)
 - Chair- Ad Hoc Search Committee (2019)
 - Member- Program Assessment Committee (2013 to 2019)
 - Member- Ad Hoc Search Committee (2017)
 - Chair- Bylaws Committee (2013 to 2015)
 - Member- Ad Hoc Search Committee (2014 to 2015)
- School of Integrated Health Sciences
 - Member-Faculty Appeals Committee (2019 to present)
 - Member- Academic Standards Committee (2015 to 2017)
 - Member- Bylaws Committee (2013 to 2015)
- University of Nevada, Las Vegas
 - Member- Top Tier Graduate Faculty and Student Committee (2019 to present)
 - Member- Research Week Planning Committee (2019 to present)
 - Member- Top Tier Doctoral Graduate Research Assistant (TTDGRA) Review Committee (2019)
 - Member- Faculty Development Committee (2016)

Honors and Awards

- 2019 UNLV Faculty Travel Award
- 2018 UNLV Faculty Travel Award
- 2018 UNLV Faculty Opportunity Award
- 2017 UNLV Faculty Travel Award
- 2017 APTA CSM Orthopaedic Section Poster Award Finalist
- 2016 UNLV Faculty Travel Award
- 2016 Magnetic Resonance in Medicine (MRM) Distinguished Reviewer
- 2016 School of Allied Health Sciences Distinguished Teaching Award
- 2015 Magnetic Resonance in Medicine (MRM) Distinguished Reviewer
- 2015 UNLV Faculty Travel Award
- 2014 UNLV Faculty Opportunity Award
- 2014 UNLV Faculty Travel Award
- Faculty Award 1st Place, 2014 UNLV 7th Annual Interdisciplinary Research Scholarship Day, Division of Health Science.
- New Investigator Award of 2014 Advancing Arthritis Research, National NIDRR Arthritis Rehabilitation Research and Training Center
- 2010-2011 Studying Abroad Scholarship, Ministry of Education, Taiwan

- 2011 ISMRM Educational Stipend
- 2010 USC Graduate and Professional Student Senate Travel Award

Continuing Education Attended (last 5 years)

- Orthopedic Conditions in Pediatrics: A Primer for Physical Therapy Professionals (PHYSICALTHERAPY.com), May 29, 2020 – 2.5 hours
- Using Imaging to Your Advantage: The Upper Extremity and Differential Diagnosis (PHYSICALTHERAPY.com), May 28, 2020 – 2 hours
- American Physical Therapy Association Combined Sections Meeting, New Orleans, LA, USA, February 22-25, 2018 – 19 hours
- American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, USA, February 15-18, 2017 – 19 hours
- Evidence-Based Examination of the Hip (MedBridge, Inc), August 12-15, 2016 – 6.7 hours
- Evidence-Based Treatment of the Knee and Thigh (MedBridge, Inc), August 9-12, 2016 – 3 hours
- Evidence-Based Examination of the Knee and Thigh (MedBridge, Inc), August 8-9, 2016 – 6.5 hours
- Hip Fracture Part A: Overview, Classifications, and Evidence (MedBridge, Inc), July 7, 2016 – 1 hour
- Basic Musculoskeletal Radiology and Imaging (MedBridge, Inc), July 6-7, 2016 – 4 hours
- American Physical Therapy Association Combined Sections Meeting, Indianapolis, IN, February 4-7, 2015 – 26 hours
- CAPTE Self-Study Workshop, Indianapolis, IN, February 3-4, 2015
- Spinning Beyond Basics - An Advanced Vestibular Rehabilitation Course, Las Vegas, NV, September 20-21, 2014- 15 hours
- 2014 Arthritis State of the Science Meeting, Pentagon City, VA, USA, April 7, 2014- 6.5 hours
- New Investigator Workshop on Advancing Arthritis Research, Pentagon City, VA, USA, April 6, 2014- 3.75 hours
- Pelvic Health Level I, APTA Section of Women's Health, Houston, Texas, USA, March 21-23, 2014- 23 hours
- American Physical Therapy Association Combined Sections Meeting, Las Vegas, Nevada, February 4-6, 2014 – 26 hours
- CAPTE Self-Study Workshop, Las Vegas, NV, February 2-3, 2014
- Team Concept Conference, Sports Physical Therapy Section of the APTA, Las Vegas, NV, December 5-7, 2013, 18.5 hours
- The Dizzy and Imbalanced Patient: Differential Diagnosis, Examination and Treatment, CPTA, Santa Barbara, CA, October 26, 2013- 7.5 hours

Current Teaching Responsibilities in the Entry-Level DPT program

- Fall:
 - DPT 741 (Orthopedic Principles- 3 credits)
- Spring:
 - DPT 758 (Diagnostic Imaging and Testing -2 credits)

Current Teaching Responsibilities in the PhD program

- Spring:
 - PTS 715 (Pathobiomechanics- 3 credits)

Graduate Students Supervised

- **PhD Students, Committee Member**

- Jay Ciccotelli (current) Interdisciplinary Health Science – Rehabilitation Science
- Kevin Choe (current) Interdisciplinary Health Science – Biomechanics

- **Doctor of Physical Therapy Students, Professional Career and Academic Advisor**
 - Class of 2016: Kasha Farley, Derek Oldroyd, Ryan Zane
 - Class of 2017: Casey Gray, Bradley Klemetson, Diana Scott, Kaylee Waters
 - Class of 2018: Vincent Dinglassan, Jesse Kim, Danielle Salgo
 - Class of 2019: Stephen Elmer, Samantha Johnson, Tyler Ormsby
 - Class of 2020: Allina Cummins, Chris Khuu, Jeremy Nordfelt, James Tingey, Ryan Yim
 - Class of 2021 (current): Matthew Tillitt, Branden Waters, Collin Weber
 - Class of 2022 (current): Sarah Partridge, Daniel Perez, Jessie Peterson, Christopher Roys
 - Class of 2023 (current): Justin Rasavage, Isabella Russell, David Sanchez, Alan Savanapridi

- **Doctor of Physical Therapy Students, Research Mentor**
 - Class of 2016: Karen Daun, Ryan Epstein, Ron Garcia, Suzenna Ngo, Nicole, Riley, Alexa Standerfer
 - Class of 2017: Danielle Hahn, Christensen Hardy, Brooke Laskowski, Jayson McClaren, Skyler Sudweeks
 - Class of 2018: Brenda Benson, Theresa French, Brooks Klein, Young Lee, Tyrel Nelson
 - Class of 2019: Corey Ackley, Kiley Aki, Joshua Arias, Michelle Evers, Jessica Kellogg, Kelly McQueary, Jassie Trinh
 - Class of 2020: Allina Cummins, Victor Hung, Chris Khuu, Shane Parker, Amanda Reilly, Steven Shepherd, Rachel Wood, Nikita Yuskov
 - Class of 2021 (current): Tavin Fox, Zachary Clark, Christine DuVall, Caitlin Howden, Jed Lee, Megan Keohane, Jynelle Arches, Aaron Simon
 - Class of 2022 (current): Christopher Roys, Taylor Souza, Daniel Stopka, Robert Lum, Andrew Martinez, Mark Barton, Alexandria Umagat, Kristina Gutierrez, Savanna Budge, Kara Meske, Austin Madriaga, Derrick Nguyenton

- **School of Medicine Students, Research Mentor**
 - Class of 2021: Jenny Hong, Alex Lin, and Johnnie Woodson

- **Graduate Assistant/Teaching Assistant Advisor**
 - 2013-2014: Trevor Mahoney
 - 2014-2015: Alexa Standerfer
 - 2015-2016: Kris Raines
 - 2016-2017: Brooks Klein
 - 2017-2018: Michelle Evers
 - 2018-2019: Allina Cummins; Daniel Krist
 - 2019-2020: Kathleen Stone
 - 2020-2021: Andrew Murata

- **Master's Degree Student, Committee Member**
 - En-Chung Shih (2015) Health Physics
 - Samantha Reynolds (2016) Kinesiology
 - Julien Mihy (2020) Kinesiology