

CURRICULUM VITAE

Matthew Kirk Seeley, PhD, ATC

Department of Exercise Sciences, Brigham Young University, Provo, UT 84602

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Education

Doctor of Philosophy, Exercise Science, University of Kentucky, Lexington, KY, USA, 2006

Area of Concentration: Biomechanics

Dissertation Title: A Test of the Functional Asymmetry Hypothesis During Walking

Dissertation Co-Advisors: Robert Shapiro, PhD & Brian R. Umberger, PhD

Master of Science, Health, PE, and Recreation, Utah State University, Logan, UT, USA, 2002

Area of Concentration: Biomechanics

Thesis Title: Reaction Forces During the Yurchenko Vault and Floor Exercise

Thesis Advisor: Eadric Bressel, EdD

Bachelor of Science, Physical Education, Utah State University, Logan, UT, USA, 2000

Professional Experience

Brigham Young University, Provo, UT, USA

Associate Professor, 2012–present

Assistant Professor, 2006–2012

University of Kentucky, Lexington, KY, USA

Research Assistant & Biodynamics Laboratory Manager, 2003–2006

Teaching Assistant, Department of Kinesiology and Health Promotion 2003–2006

Graduate Assistant, Faculty and Staff Wellness Program, 2002–2003

Intermountain Health Care, Logan, UT, USA

Athletic Trainer, Utah State University Club and Intramural Sports, 2001–2002

Utah State University, Logan, UT, USA

Graduate Teaching Assistant, Department of Health, PE, and Recreation, 2001–2002

Graduate Assistant Athletic Trainer, 2000–2001

Undergrad Teaching Assistant, Department of Health, PE, and Recreation, 1997–2000

Undergraduate Student Athletic Trainer, 1997–2000

Teaching Experience

Brigham Young University

EXSC 362	Kinesiology and Biomechanics	(instructor)
EXSC 365	Scientific Bases of Sport: Kinesiology	(instructor)
EXSC 663	Research Techniques in Biomechanics	(instructor)

University of Kentucky

KHP 515	Anatomical and Mechanical Kinesiology	(co-instructor)
PT 686	Athletic Taping	(co-instructor)
AT 695	Advanced Rehabilitation Concepts	(co-instructor)

Utah State University

PEP 4200	Biomechanics	(lab instructor)
PEP 3100	Athletic Injuries	(lab instructor)

Scientific Publications

Refereed Articles (*undergraduate student coauthor; †graduate student coauthor)

1. Kim, H., Son, S.J.[†], **Seeley, M.K.**, and Hopkins, J.T.. The redistribution of lower-extremity joint effort in patients with chronic ankle instability during a forward-side jump. *Medicine and Science in Sports and Exercise*, In Review.
2. Kwon, S.[†], Pfister, R.* , Hager, R.L., Hunter, I., & **Seeley, M.K.**. Influence of tennis racquet kinematics on ball topspin rate and accuracy during the forehand groundstroke. *Journal of Sports Science and Medicine*, In Review.
3. Rosquist, P.G.[†], Collins, G.[†], Merrell, A.J.[†], Tuttle, N.J.[†], Tracy, J.B.[†], Bird, E.T.[†], **Seeley, M.K.**, Fullwood, D.T., Christensen, W.F., & Bowden, A.E.. Measurement of 3D ground reaction force using nanocomposite piezo-responsive foam sensors during walking. *Annals of Biomedical Engineering* (IF = 2.887; Biomedical Engineering Rank = 16/76, Q1), In Press.
4. Sanders, M.[†], Bowden, A.E., Baker, S.* , Jensen, R.* , Nichols, M.* , & **Seeley, M.K.**. Effects of various mobility aids on lower-extremity muscle activity. *Journal of Sport Rehabilitation* (IF = 1.612; Sport Sciences Rank = 35/82, Q2), In Press.
5. Son, S.J.[†], **Seeley, M.K.**, Reese, S.C., & Hopkins, J.T.. Movement strategies among groups of chronic ankle instability, coper, and control. *Medicine and Science in Sports and Exercise*, (IF = 4.041; Sports Sciences Rank = 6/82, Q1), In Press.
6. **Seeley, M.K.**, Son, S.J.[†], Kim, H., & Hopkins, J.T. (2017). Walking mechanics for patellofemoral pain subjects with similar self-reported pain levels can differ based upon neuromuscular activation. *Gait and Posture* (IF = 2.286; Sports Sciences Rank = 20/82, Q1), 53, 48-54.
7. Park, J.[†], Denning, W.M.[†], Pitt, J.* , Francom, D.[†], Hopkins, J.T., & **Seeley, M.K.** (2017). Effects of experimental anterior knee pain on muscle activation during landing and jumping performed at various intensities. *Journal of Sport Rehabilitation* (IF = 1.612; Sport Sciences Rank = 35/82, Q2), 26(1), 78-93.

8. Son, S.[†], Kim, H., **Seeley, M.K.**, & Hopkins, J.T. (2017). Efficacy of sensory transcutaneous electrical nerve stimulation on perceived pain and gait patterns in individuals with experimental knee pain. *Archives of Physical Medicine and Rehabilitation* (IF = 3.045; Sports Sciences Rank = 9/82, Q1), 98, 25-35.
9. Bird, E.^{*}, Merrell, J., Anderson, B.[†], Newton, C.[†], Rosquist, P.[†], Fullwood, D., Bowden, A.E., & **Seeley, M.K.** (2016). Vibration monitoring via nano-composite piezoelectric foam bushings. *Smart Materials and Structures*, (IF = 2.769; Instruments and Instrumentation Rank = 5/56, Q1), 25(11).
10. Hyldahl, R.D., Evans, A.^{*}, Kwon, S.[†], Ridge, S.T., Robinson, E., Hopkins, J.T., & **Seeley, M.K.** (2016). Running decreases knee intra-articular cytokine and cartilage oligomeric matrix concentrations. *European Journal of Applied Physiology* (IF = 2.328; Sports Sciences Rank = 18/82, Q1), 11, 2305-2314.
11. Denning, W.M.[†], Pardo, M.B.^{*}, Winward, J.G.^{*}, Hunter, I., Ridge, S., Hopkins, J.T., Reese, C.S., Parcell, A.C., & **Seeley, M.K.** (2016). Ambulation speed and corresponding mechanics affect articular cartilage catabolism. *Gait and Posture* (IF = 2.286; Sports Sciences Rank = 20/82, Q1), 44, 131-136.
12. Son, S.[†], Kim, H.[†], **Seeley, M.K.**, Feland, J.B., & Hopkins, J.T. (2016). Effects of transcutaneous electrical nerve stimulation on quadriceps function in individuals with experimental knee pain. *Scandinavian Journal of Medicine and Science in Sports* (IF = 3.025; Sports Sciences Rank = 11/82, Q1), 26(9), 1080-1090.
13. Hunter, I., Earl, S.[†], Mack, G.W., & **Seeley, M.K.** (2015). The relationship between steeplechase hurdle economy, mechanics, and performance. *Journal of Sport and Health Science* (IF = 1.685; Sports Sciences Rank = 32/82, Q2), 4, 353-356.
14. Kim, H.[†], Seong, J.S.[†], **Seeley, M.K.**, & Hopkins, J.T. (2015). Functional fatigue alters lower-extremity neuromechanics during a forward-side jump. *International Journal of Sports Medicine* (IF = 2.528; Sports Sciences Rank = 15/82, Q1), 36(14), 1192-1200.
15. Denning, W.M.[†], Winward, J.G.^{*}, Pardo, M.B.^{*}, Hopkins, J.T., & **Seeley, M.K.** (2015). Body weight independently affects articular cartilage catabolism. *Journal of Sport Science and Medicine* (IF = 1.430; Sports Sciences Rank = 45/82, Q3), 14, 290-296.
16. Sakita, K.,[†] **Seeley, M.K.**, Myrer, J.W., & Hopkins, J.T. (2015). Should muscle electromyography during shoulder external rotation exercises with and without slight abduction. *Journal of Sport Rehabilitation* (IF = 1.612; Sport Sciences Rank = 35/82, Q2), 24(2), 109-115.
17. Prusak, K.M.[†], Prusak, K.A., Hunter, I., **Seeley, M.K.**, & Hopkins, J.T. (2014). Comparison of two taping techniques on navicular drop and center of pressure measurements during stance. *Athletic Training and Sports Health Care* (No ISI Impact Factor), 6(6), 252-260.
18. Denning, W.M.[†], Woodland, S.[†], Winward, J.G.^{*}, Leavitt, M.G.[†], Parcell, A.C., Hopkins, J.T., Francom, D.[†], & **Seeley, M.K.** (2014). The influence of experimental anterior knee pain during running on electromyography and articular cartilage metabolism. *Osteoarthritis and Cartilage* (IF = 4.535; Orthopedics Rank = 2/74, Q1), 22, 1111-1119.
19. Hunter, I., **Seeley, M.K.**, Hopkins, J.T., Carr, C.^{*}, & Frandson, J.J.^{*} (2014). EMG activity during positive-pressure treadmill running. *Journal of Electromyography and Kinesiology* (IF = 1.530; Sport Sciences Rank = 40/82, Q2), 24(3), 348-352.
20. Falk, E.E.[†], **Seeley, M.K.**, Hunter, I., Park, J.[†], & Hopkins, J.T. (2014). Effect of experimental anterior knee pain on measures of static and dynamic postural control. *Athletic Training and Sports Health Care* (No ISI Impact Factor), 6(1), 7-14.

21. Hopkins, J.T., Coglianesi, M.[†], Reese, S., & **Seeley, M.K.** (2013). Alterations in evertor/invertor muscle activation and center of pressure trajectory during a forward lunge in participants with functional ankle instability. *Clinical Research on Foot and Ankle* (No ISI Impact Factor), (2)1. DOI: 10.4172/2329-910X.1000122.
22. Cunningham, R.[†], Hunter, I., **Seeley, M.K.**, & Feland, B. (2013). Variations in running technique between female sprinters, middle, and long distance. *International Journal of Exercise Science* (No ISI Impact Factor), 6(1), 43-51.
23. **Seeley, M.K.**, Park, J.[†], King, D.^{*}, & Hopkins, J.T. (2013). A novel experimental knee pain model affects perceived pain and movement biomechanics. *Journal of Athletic Training* (IF = 2.224; Sport Sciences Rank = 21/82, Q2), 48(3), 337-345.
24. Wilcox, S.[†], Hager, R., Lockhart, B., & **Seeley, M.K.** (2012). Ground reaction forces generated by twenty-eight Hatha Yoga postures. *International Journal of Exercise Science* (No ISI Impact Factor), 5(2), Article 2.
25. Chan-Roper, M.M.[†], Hunter, I., Myrer, J.W., Egget, D., & **Seeley, M.K.** (2012). Kinematic changes during a marathon for fast and slow runners. *Journal of Sports Science and Medicine* (IF = 1.430; Sports Sciences Rank = 45/82, Q3), 11, 77-82.
26. Hopkins, J.T., Coglianesi, M.[†], Glasgow, P., Reese, S., & **Seeley, M.K.** (2012). Alterations in evertor/invertor muscle activation and center of pressure trajectory in patients with chronic ankle instability. *Journal of Electromyography and Kinesiology* (IF = 1.530; Sport Sciences Rank = 40/82, Q2), 22, 280-285.
27. Denning, W.M.[†], Bressel, E., Dolny, D., Bressel, M., & **Seeley, M.K.** (2012). A review of biophysical differences between aquatic and land based exercise. *International Journal of Aquatic Research and Education* (No ISI Impact Factor—this paper was required to be submitted to this journal, as a result of a grant awarded to the first author), 6, 46-67.
28. **Seeley, M.K.**, Funk, M.J.[†], Denning, W.M.[†], Hager, R., and Hopkins, J.T. (2011). Tennis forehand kinematics change as post-impact ball speed is altered. *Sports Biomechanics* (IF = 1.209; Sport Sciences Rank = 53/82, Q3), 10(4), 415-426.
29. **Seeley, M.K.**, Sandberg, R.P.^{*}, Chacon, J.F.^{*}, Funk, M.D.[†], Nokes, N.[†], & Mack, G.W. (2011). Metabolic energy expenditure during spring-loaded crutch ambulation. *Journal of Sport Rehabilitation* (IF = 1.612; Sport Sciences Rank = 35/82, Q2), 20, 419-427.
30. Neves, T.[†], Johnson, A.W., Myrer, J.W., & **Seeley, M.K.** (2011). A biomechanical comparison of three different volleyball blocking techniques. *Journal of Sports Science and Medicine* (IF = 1.430; Sports Sciences Rank = 45/82, Q3), 10, 452-457.
31. **Seeley, M.K.**, Hunter, I., Roggia, A.^{*}, Bateman, T.D.^{*}, Larson, B.J., & Draper, D.O. (2011). A kinematic comparison of spring-loaded and traditional crutches. *Journal of Sport Rehabilitation* (IF = 1.612; Sport Sciences Rank = 35/82, Q2), 20, 198-206.
32. **Seeley, M.K.**, Umberger, B.R., Clasey, J.L., & Shapiro, R. (2010). The relation between mild limb-length inequality and asymmetry in healthy walking. *Journal of Sports Science and Medicine* (IF = 1.430; Sports Sciences Rank = 45/82, Q3), 9, 572-579.
33. Villamonte, R.[†], Vehrs, P.R., Feland, J.B., Johnson, A.W., **Seeley, M.K.**, & Egget, D. (2010). Reliability of sixteen balance tests in individuals with Down Syndrome. *Perceptual and Motor Skills* (IF = 0.618; Psychological, Experimental Rank = 84/85, Q4), 111(2), 530-542.
34. Rice, J.^{*} & **Seeley, M.K.** (2010). An investigation of lower-extremity functional asymmetry for non-preferred able-bodied walking speeds. *International Journal of Exercise Science* (No ISI Impact Factor), 3(4), Article 4.

35. **Seeley, M.K.**, Umberger, B.R. & Shapiro, R. (2008). A test of the functional asymmetry hypothesis in walking. *Gait and Posture* (IF = 2.286; Sports Sciences Rank = 20/82, Q1), 28(1), 24–28.
36. **Seeley, M.K.**, Uhl, T.L., McGinn, P.A., McCrory, J., Kibler, W.B. & Shapiro, R. (2008). A comparison of muscle activation patterns during traditional and abbreviated tennis serves. *Sports Biomechanics* (IF = 1.209; Sport Sciences Rank = 53/82, Q3), 7(2), 248–259.
37. **Seeley, M.K.** & Bressel, E. (2005). A comparison of upper-extremity reaction forces between the Yurchenko vault and floor exercise. *Journal of Sports Science and Medicine* (IF = 1.430; Sport Sciences Rank = 45/82, Q3), 4(2), 85–94.
38. Jacobs, C.[†], Uhl, T.L., **Seeley, M.K.**, Sterling, W.[†], & Goodrich, L.[†]. (2005). Strength and fatigability of the dominant and non-dominant hip abductors. *Journal of Athletic Training* (IF = 2.224; Sport Sciences Rank = 21/82, Q2), 40, 203–206.

Recent (2015-present) Scientific Presentations

(* indicates undergraduate student coauthor; † indicates graduate student coauthor)

1. Evans, A.[†], Hyldahl, R.D., Ridge, S., Kwon, S.[†], Hopkins, J.T., Robinson, E., & Seeley, M.K. (2017). Serum COMP and the inflammatory environment of the knee before and after exercise-induced load. *Presented at the Biomedical Engineering Western Regional Conference*. Provo, UT, USA.
2. Son, S.J.[†], Kim, H., Seeley, M.K., & Hopkins, J.T. (2017) Effects of neuromuscular exercises targeting evertors and hip abductors on muscle volume (a MRI analysis), strength, and postural control: a six-week randomized controlled trial. *Presented at the International Ankle Symposium*. Chapel Hill, NC, USA.
3. Kim, H., Son, S.J.[†], Seeley, M.K., & Hopkins, J.T. (2017). The redistribution of lower extremity joint effort in patients with chronic ankle instability during a forward-side jump. *Presented at the International Ankle Symposium*. Chapel Hill, NC, USA.
4. Evans, A.[†], Son, S.J.[†], Kim, H., Seeley, M.K., & Hopkins, J.T. (2017). Gender differences during jump landing/cutting in lower extremity kinetic and energetic patterns in chronic ankle instability. *Presented at the International Ankle Symposium*. Chapel Hill, NC, USA.
5. Kim, H., Son, S.J.[†], Seeley, M.K., & Hopkins, J.T. (2017). Effect of six weeks rehabilitation on ankle neuromechanical patterns in subjects with chronic ankle instability. *Presented at the Annual Meeting of the National Athletic Trainers Association*. Houston, TX, USA.
6. Evans, A.[†], Hyldahl, R.D., Ridge, Sarah, T, Kwon, S.[†], Hopkins, J.T., Robinson, E.R., & Seeley, M.K. (2017). Serum COMP concentration and knee intra-articular inflammation before and after a 30-minute run. *Presented at the Osteoarthritis Research Society International World Congress*. Las Vegas, NV, USA.
7. Son, S.J.[†], Kim, H., Seeley, M.K., & Hopkins, J.T. (2017). Influence of experimental knee pain on bilateral loading patterns during walking in healthy individuals. *Presented at the Osteoarthritis Research Society International World Congress*. Las Vegas, NV, USA.
8. Son, S.J.[†], Kim, H., Seeley, M.K., & Hopkins, J.T. (2017). Pre-landing lower extremity kinematics among chronic ankle instability patients, ankle sprain copers and healthy controls. *Presented at the Annual Meeting of the National Athletic Trainers Association*. Houston, TX, USA.

9. Kim, H., Son, S.J.[†], Seeley, M.K., & Hopkins, J.T. (2017). Effect of six weeks rehabilitation on ankle neuromechanic patterns in subjects with chronic ankle instability. *Presented at the Annual Meeting of the National Athletic Trainers' Association*. Houston, TX, USA.
10. Read, J.^{*}, Son, S.J.[†], Kim, H., Seeley, M.K., & Hopkins, J.T. (2017). Landing energetics and trunk position for patellofemoral pain patients can differ based on quadriceps central activation ratio. *Presented at the Annual Meeting of the National Athletic Trainers Association*. Houston, TX, USA.
11. Martineau, A.[†], Tracy, J.[†], Collins, G.[†], Rosquist, P.[†], Bruening, D., Seeley, M.K., Fullwood, D., & Bowden, A.E. (2017). Mobile, low profile, and inexpensive knee joint angle sensor. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
12. Son, S.J.[†], Kim, H., Wiseman, B.^{*}, Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Pre-landing lower extremity kinematics and muscle activation in chronic ankle instability patients following rehabilitation. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
13. Kim, H., Son, S.J.[†], Read, J.^{*}, Seeley, M.K., & Hopkins, J.T. (2017). Altered ankle neuromechanics during walking in patients with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
14. Hopkins, J.T., Son, S.J.[†], Kim, H., Bruening, D., & Seeley, M.K. (2017). Effect of rehabilitation intervention on ankle and hip neuromechanics in patients with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
15. Evans, A.[†], Son, S.J.[†], Kim, H., Kwon, S.[†], Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). A 6-week rehabilitation training improves single-leg static postural control in patients with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
16. Kwon, S.[†], Son, S.J.[†], Kim, H., Evans, A.[†], Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Effects of strength and proprioceptive exercises on walking energetic patterns in chronic ankle instability patients. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
17. Gonzales, H.^{*}, Son, S.J.[†], Kim, H., Eppich, K.^{*}, Bangerter, N.K., Seeley, MK, & Hopkins, J.T. (2017). A 6-week strength training program increases muscle size in patients with chronic ankle instability: MRI Analysis. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
18. Eppich, K.^{*}, Son, S.J.[†], Kim, H., Gonzales, H.^{*}, Bangerter, N.K., Seeley, M.K., & Hopkins, J.T. (2017). Strength and proprioceptive training increases muscle size in patients with chronic ankle instability: MRI analysis. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
19. Mills, J.^{*}, Son, S.J.[†], Kim, H., Winward, B.^{*}, Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Effect of ankle and hip rehabilitation intervention on knee landing mechanics in chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
20. Winward, B.^{*}, Son, S.J.[†], Kim, H., Mills, J.^{*}, Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Changes in lower extremity energetics during cutting in chronic ankle instability patients following rehabilitation intervention. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.

21. Hadley, C. *, Son, S.J.†, Kim, H., Danielson, P. *, Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Six-week rehabilitation intervention increases ground reaction force during cutting in patients with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
22. Danielson, P. *, Son S.J.†, Kim, H., Hadley, C. *, Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Effect of rehabilitation intervention on hip mechanics during cutting in patients with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
23. Perry, C. *, Son, S.J.†, Kim, H., Wiseman, B. *, Bruening, D., Seeley, M.K., & Hopkins, J.T. (2017). Proximal joint muscle activation during cutting in chronic ankle instability patients following a rehabilitation intervention. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
24. Read, J. *, Kim, H., Son, S.J.†, Mitchell, J. *, Seeley, M.K., & Hopkins, J.T. (2017). Individuals with chronic ankle instability exhibit altered ground reaction force patterns during walking. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
25. Mitchell, J. *, Kim, H., Son, S.J.†, Read, J. *, Seeley, M.K., & Hopkins, J.T. (2017). Altered locomotive hip joint patterns in patients with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
26. Roush, J. *, Kim, H., Son, S.J.†, Fuhriman, T. *, Seeley, M.K., & Hopkins, J.T. (2017). Functional patterns of knee neuromechanics during stance in subjects with chronic ankle instability. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
27. Fuhriman, T. *, Kim, H., Son, S.J.†, Roush, J. *, Seeley, M.K., Hopkins, J.T. (2017). Altered lower extremity joint energetic patterns in patients with chronic ankle instability during walking. *Presented at the Annual Meeting of the American College of Sports Medicine*. Denver, CO, USA.
28. Seeley, M.K. (2016). Altered running mechanics: potential causes, consequences and fixes. *An invited presentation given in a concurrent colloquia at the Southwest Regional Meeting of the American College of Sports Medicine*. Costa Mesa, CA, USA.
29. Fullwood, D.T., Rosquist, P.G.†, Collins, G. *, Merrell, A.J.†, Christensen, W.F., Bowden, A.E., & Seeley M.K. (2016). Ambulatory ground reaction forces with quasi-piezoelectric foam. *Presented at the Composites and Advanced Materials Expo*. San Diego, CA, USA.
30. Kwon, S.†, Pfister, R.M. *, Hunter, I., Hager, R.L., & Seeley, M.K. (2016). Effect of racquet kinematics on topspin rate and shot accuracy for the tennis forehand stroke. *Presented at the Annual Meeting of the American Society of Biomechanics*. Raleigh, NC, USA.
31. Seeley, M.K, Evans, A. *, Hyldahl, R., Kwon, S.†, Ridge, S.T., Robinson, E., & Hopkins, J.T. (2016). Decreased intra-articular inflammation of the knee and mechanical load due to running. *Presented at the Annual Meeting of the American Society of Biomechanics*. Raleigh, NC, USA.
32. Evans, A. *, Ridge, S.T., Hyldahl, R., Kwon, S.†, Hopkins, J.T, Robinson, E., & Seeley, M.K. (2016). The effect of running ground reaction force on serum and knee synovial fluid cartilage oligomeric matrix protein. *Presented at the Annual Meeting of the American Society of Biomechanics*. Raleigh, NC, USA.

33. Denning, W.M., Park, J., Pitt, J.D. *, Hopkins, J.T., & Seeley, M.K. (2016). Experimental knee pain and movement intensity influences ground reaction force characteristics. *Presented at the Annual Meeting of the American Society of Biomechanics*. Raleigh, NC, USA.
34. Pfister, R.M. *, Kwon, S. †, Hager, R.L., Hunter, I., & Seeley, M.K. (2016). Relationship between racquet kinematics, topspin rate and shot accuracy in the tennis forehand. *Presented at the Rocky Mountain Regional Meeting of the American Society of Biomechanics*. Estes Park, CO, USA.
35. Martineau, A. *, Hilton, B. *, Rosquist, P.G. †, Martin, N. *, Bowden, A.E., Fullwood, D., & Seeley, M.K. (2016). Characterizing creep-related signal drift in piezoresponsive strain gauges for mobile gait analysis. *Presented at the Annual Conference of the Society for the Advancement of Material and Process Engineering*. Long Beach, CA, USA.
36. Seeley, M.K., Son, S.J. †, Kim, H., & Hopkins, J.T. (2016). Movement mechanics within a single patellofemoral pain cohort significantly vary. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
37. Son S.J. †, Kim H.S., Wiseman, B., Seeley M.K., & Hopkins J.T. (2016). Gait mechanics depend upon quadriceps central activation ratio in anterior knee pain cohort. *Presented at the National Athletic Trainers Annual Meeting and Symposium*. Baltimore, MD, USA.
38. Kim H., Son S.J. †, Seeley M.K., & Hopkins J.T. (2016). Quadriceps activation deficits alter sagittal-plane lower extremity biomechanics in subjects with anterior knee pain. *Presented at the National Athletic Trainers Annual Meeting and Symposium*. Baltimore, MD, USA.
39. Seeley, M.K., Son S.J. †, Kim H., & Hopkins, J.T. (2016). Movement mechanics within a single patellofemoral pain cohort significantly vary. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
40. Hopkins, J.T., Kim, H., Son, S.J. †, Reese, S., & Seeley, M.K. (2016). Lower extremity EMG alterations in clustered kinematic patterns of subjects with ankle instability. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
41. Rosquist, P.G. †, Collins, G. *, Merrell, A.J. †, Christensen, W.F., Bowden, A.E., Fullwood, D.T., & Seeley M.K. (2016). Modeling 3D ground reaction forces during walking using nanocomposite piezo-responsive foam sensors. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
42. Gregory M. *, Son S.J. †, Kim H., Seeley M.K., & Hopkins J.T. (2016). Altered frontal ankle neuromechanics in subjects with ankle instability compared to copers and healthy controls. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
43. Hamilton P. *, Son S.J. †, Kim H., Seeley M.K., & Hopkins J.T. (2016). Frontal hip neuromechanic alterations during a jump task between ankle instability, copers, and healthy controls. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
44. Kim H., Son S.J. †, Seeley M.K., & Hopkins J.T. (2016). Different lower extremity joint energetic pattern between subjects with copers and ankle instability. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
45. Read J. *, Son S.J., Kim H., Seeley M.K., & Hopkins J.T. (2016). Altered knee neuromechanics during a jump task in ankle instability subjects compared to copers and normals. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.

46. Son S.J.[†], Kim H., Seeley M.K., & Hopkins J.T. (2016). Ankle sprain copers demonstrate unique lower extremity neuromechanics compared to healthy controls and ankle instability subjects. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
47. Wiseman B.^{*}, Son S.J.[†], Kim H., Seeley M.K., & Hopkins J.T. (2016). Altered hip neuromechanics during a jump task between ankle instability, copers and healthy controls. *Presented at the American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA.
48. Hopkins, J.T., Kim, H., Son, S.J., Reese S., Roundy, R., Seeley, M.K. (2016). Movement pattern clustering of patients with self-reported ankle instability during a jump task. *Presented at the 6th International Ankle Symposium*. Dublin, Ireland.
49. Bird, E.T.^{*}, Merrell, A.J.[†], Anderson, B.K.[†], Newton, C.N.[†], Rosquist, P.G.[†], Fullwood, D.T., Bowden, A.E., & Seeley, M.K. (2015). Vibration monitoring via nano-composite piezoelectric foam bushings. *Presented at the Composites and Advanced Materials Exposition*. Dallas, TX, USA.
50. Seeley, M.K., Pitt, J.^{*}, Park, J., Denning, W.M., Francom, D., & Hopkins, J.T. (2015). Experimental anterior knee pain affects activation of certain muscles differently during landing and jumping. *Presented at the Annual Meeting of the American Society of Biomechanics*. Columbus, OH, USA.
51. Denning, W.M.[†], Becker Pardo, M.^{*}, Winward, J.G.^{*}, Hunter, I., Ridge, S., Hopkins, J.T., Parcell, A.C., & Seeley, M.K. (2015). Gender differences in the association between acute articular cartilage metabolism and ambulatory kinetics. *Presented at the Annual Meeting of the American Society of Biomechanics*. Columbus, OH, USA.
52. Seeley, M.K. (2015). Clinical implications of anterior knee pain: effects on cartilage health and movement mechanics. *An Invited Presentation for a 60-minute Special Topics Session at the National Athletic Trainers Association Convention*. St. Louis, MO, USA.
53. Denning, W.M.[†], Becker Pardo, M.^{*}, Winward, J.G.^{*}, Hopkins, J.T., Parcell, A.C., & Seeley, M.K. (2015). Post-ambulation increases in serum cartilage oligomeric matrix protein differ between genders. *Presented at the Annual Meeting of the American College of Sports Medicine*. San Diego, CA, USA.
54. Johnson, A.W., Brooks, C.N.[†], Seeley, M.K., Myrer, J.W., & Feland, J.B. (2015). Acute effects of whole-body vibration stretching on passive and dynamic flexibility in young gymnasts. *Presented at the Annual Meeting of the American College of Sports Medicine*. San Diego, CA, USA.

Technical Reports

1. Bateman, T.D., Seeley, M.K., Roggia, A.M., & Draper, D.O. (2008). An evaluation of mechanical energy transfer during traditional and spring-loaded crutch ambulation. *Requested by Millennial Medical Incorporated, Logan, UT, USA*.
2. Hanaki-Martin, S., Spigelman, T., Seeley, M.K., Turnquist, T., Uhl, T., Johnson, D. & Shapiro, R. (2008). Predicting perceived benefit in patients using an off-loading knee orthotic. *Presented to DonJoy, Orthopaedics LLC, Vista, CA, USA*.
3. Shapiro, R., Uhl, T.L., Seeley, M.K., McGinn, P.A., McCrory, J., & Kibler, W.B. (2005). A comparison of traditional and abbreviated tennis serves. *Presented to The United States Tennis Association*.

Funding

External Funding (I am the primary investigator, Co-PI, or co-investigator for these projects.)

1. *STTR Phase II: Piezoelectric Self-sensing Shoe Insole*. Submitted in February, 2017. Funding Source: NSF (Small Business Innovative Research and Technology Transfer Phase II—15-545). Amount Requested: \$749,999, over 2 years. Role: Co-Investigator.
2. *Smartfoam for complete self-sensing protection and concussion management at all levels of football play*. Submitted in December, 2016. Funding Source: Football Research Initiative (through Duke University), sponsored by the National Football League. Amount Requested: \$330,867. Role: Co-Investigator.
3. *STTR Phase I: Piezoelectric Self-sensing Shoe Insole*. Submitted in June, 2015. Funding Source: NSF (Small Business Innovative Research and Technology Transfer Phase I—15-545). Amount Requested: \$345,948. Amount Funded: \$206,105, over 1 year. Role: Co-Investigator.
4. *Mobile Gait Analysis Using Wearable Piezoresponsive Nano-Composite Sensors*. Submitted in February, 2015. Funding Source: NSF (PD 14-7569—Sensors, Dynamics, and Control). Amount Requested: \$376,053. Amount Funded: \$376,053, over 3 years. Role: Co-Primary Investigator.
5. *Piezoresponsive Wearables for Monitoring and Biofeedback of Orthopaedic Pathologies*. Submitted in May, 2015. Funding Source: NIH (NOT-EB-15-003—Cyber-physical Systems Initiative). Amount Requested: \$583,380. Not Funded, Not Scored. Role: Co-Primary Investigator.
6. *Effects of Experimental Anterior Knee Pain on Knee Articular Cartilage Morphology and Composition, Lower Extremity Neuromechanics, and Blood Biomarkers*. Submitted in February, 2014, and Resubmitted in February, 2015. Funding Source: NIH, NIAMS. (PA-13-313—Academic Research Enhancement Award). Amount Requested: \$375,000. Not Funded. Impact Score: 60. Role: Primary Investigator.
7. *Experimental Anterior Knee Pain and Lower Extremity Neuromechanics* (Submitted in February, 2013 and Resubmitted in February, 2014). Funding Source: National Athletic Trainers Association Research and Education Foundation. Amount Requested: \$56,717. Not Funded. Role: Primary Investigator.
8. *Effects of Experimentally Induced Knee Joint Pain on Lower Extremity Neuromechanics* (2011). Funding Source: NIH, NINR (PA10-008—Mechanisms, models, measurement, and management in pain research). Amount Requested: \$150,000. Not Funded. Impact Score: 28. Role: Primary Investigator.
9. *Perfect Empowered Drinking Water* (2010). Funding Source: Perfect Water and Essentials, LLC. Amount Requested: \$9,875; Amount Funded: \$9,875. Role: Primary Investigator.
10. *Creation of Multimedia Tools for Teaching Undergraduate Biomechanics* (2008). Funding Source: NSF (Program Solicitation: 08-546—Course Curriculum, and Laboratory Improvement). Amount Requested: \$150,000. Not Funded. Role: Co-Primary Investigator.
11. *Perceived Benefit for Patients Using A Knee Prosthetic* (2006). Funding Source: DonJoy Orthopedics. Amount Requested: \$22,000; Amount Funded: \$15,000. Role: Primary Investigator.
12. *A Biomechanical Evaluation of a Novel Mobile Walking Device* (2006). Funding Source: Millennial Medical Incorporated. Amount Requested: \$4,200. Amount Funded: \$4,200.

External Funding (I am only a consultant for these proposals.)

1. *Strategic Targets for Reducing Osteoarthritis Burden and Epidemiology (STROBE): Biomechanics Biomarkers, Early Structural Change and Post-traumatic Osteoarthritis Following Joint Injury*. Submitted in November, 2016. Funding Source: Department of Defense, Congressionally Directed Medical Research Program. Amount Requested: \$9,492,245.
2. *Longitudinal Study of Natural Disc Degeneration Using a Novel Camelid Animal Model*. Submitted in October, 2015. Funding Source: NIH, NIAMS. (PA13-302—R01). Amount Requested: \$1,815,000. Not Funded. Impact Score: 45. Percentile: 44.

Internal Funding

1. *The Effect of Mechanical Load on Knee Joint Biochemistry for Individuals Who Are Predisposed to Knee Osteoarthritis* (2016). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Funded: \$1,800). Role: Faculty Mentor for Taylor Leavitt.
2. *The Acute Effects of Weight Gain on Knee Articular Cartilage Composition and Walking Mechanics* (2016). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Steven Morrin.
3. *The Effect of Running with Experimental Knee Pain on Knee Joint Articular Cartilage Morphology and Composition* (2015). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Steve Morrin.
4. *Do Certain Biomarkers Accurately Reflect Articular Cartilage Change Due to Physical Activity?* (2015). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Funded: \$1,800). Role: Faculty Mentor for Alyssa Evans.
5. *Research Initiation Grant* (2015). Brigham Young University Magnetic Resonance Imaging Research Facility. Amount Requested: \$5,000. Amount Funded: \$5,000. Role: Primary Investigator.
6. *Experimental Anterior Knee Pain and Knee Articular Cartilage Morphology and Composition, and Neuromechanical and Blood Biomarkers* (2014). Brigham Young University Mentoring Environment Grant. Amount Requested: \$19,500; Amount Funded: \$19,500. Role: Co-Primary Investigator.
7. *Effects of Experimental Anterior Knee Pain on Knee Articular Cartilage Morphology and Composition, Lower Extremity Neuromechanics, and Blood Biomarkers: A Pilot Study*. (2014). Brigham Young University Magnetic Resonance Imaging Research Facility. Amount Requested: \$4,800. Amount Funded: \$4,800. Role: Primary Investigator.
8. *The Effect of Running on Synovial and Serum Cartilage Oligomeric Matrix Protein* (2014). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Amount Funded: \$1,800). Role: Faculty Mentor for Alyssa Evans.
9. *Preventing Unforced Errors and Increasing Ball Topspin Rate in Tennis* (2014). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Justin Cox.

10. *Anterior Knee Pain Effects on Uninvolved Leg Biomechanics* (2014). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Christian Shafer.
11. *The Effects of Anterior Knee Pain on the Kinetics of the Lower Extremities During High Intensity Activities* (2011). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Amount Funded: \$1,800). Role: Faculty Mentor for Jordan Pitt.
12. *Examining Quantitative Differences in Gait Between the PVC Prosthesis Design and the Traditional Prosthesis* (2011). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Amount Funded: \$1,800). Role: Faculty Mentor for David Chinn.
13. *Effects of Knee Pain on Kinematics During Strenuous Physical Movement* (2011). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Sydney Chartrand.
14. *The Effect of Knee Pain on Neurological Activity in the Lower Extremities During High Intensity Tasks* (2011). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Cory Cosgrave.
15. *Metabolic Cost of Spring-loaded Crutch Ambulation* (2008). Funding Source: Brigham Young University Mary Lou Fulton Chair for the College of Health and Human Performance. Amount Requested: \$1,820; Amount Funded: \$1,820. Role: Primary Investigator.
16. *Examining Quantitative Differences in Gait Between the PVC Prosthesis Design and the Standard Prosthesis* (2010). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for David Chinn.
17. *Evaluating Electromyographic Responses to Walking in Reebok Easy-Tone Shoe* (2010). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Molly Hagen.
18. *The Effects of Experimentally Induced Anterior Knee Pain on Postural Control* (2010). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Benjamin Willford.
19. *Neuromechanical Factors That Contribute to Chronic Ankle Instability* (2010). Funding Source: Brigham Young University Mentoring Environment Grant. Amount Requested: \$20,000; Amount Funded: \$20,000. Role: Co-Investigator.
20. *Ground Reaction Forces During Spring-loaded Crutch Ambulation* (2009). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Amount Funded: \$1,800). Role: Faculty Mentor for Ryan Sandberg.
21. *A Preliminary Analysis of A Novel Patellar Tendon Strap* (2009). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Not Funded). Role: Faculty Mentor for Macsen Viewhig.
22. *Graduate Mentoring Award* (2009). Funding Source: Brigham Young University Graduate School. Amount Requested: \$4,000; Amount Funded: \$4,000. Role: Faculty Mentor.
23. *Can Antalgic Gait Promote Osteoarthritis?* (2009). Funding Source: Brigham Young University Gerontology Program. Amount Requested: \$4,051.69. Amount Funded: \$4,051.69. Role: Primary Investigator.

24. *Investigating the Neuromuscular and Mechanical Effects of Experimentally Induced Knee Pain During Walking* (2008). Funding Source: College of Health and Human Performance Faculty Fellowship. Amount Requested: \$4,343. Amount Funded: \$4,343. Role: Co-Primary Investigator.
25. *Additional Matlab Training* (2008). Funding Source: College of Health and Human Performance Faculty Fellowship. Amount Requested: \$550; Amount Funded: \$550.
26. *Course Development Project* (2007). Funding Source: Brigham Young University Faculty Center. Amount Requested: \$300; Amount Funded: \$300.
27. *The Mechanics of Using a Novel Mobile Walking Device* (2007). Brigham Young University Office of Research and Creative Activities Grant (Amount Requested: \$1,800; Amount Funded: \$1,800). Role: Faculty Mentor for Thomas Bateman.
28. *The Influence of Anthropometrics on a Novel Mobile Walking Device* (2007). Funding Source: Brigham Young University Mary Lou Fulton Chair for the College of Health and Human Performance. Amount Requested: \$4,300; Amount Funded: \$3,400. Role: Primary Investigator.
29. *Neck extensor muscle endurance in a sitting position compared to a prone position in healthy individuals* (2007). Funding Source: Brigham Young University Mary Lou Fulton Chair for the College of Health and Human Performance. Amount Requested: \$1,900; Amount Funded: \$1,300. Role: Co-investigator.
30. *Neck extensor muscle fatigue and elbow flexor muscle activation* (2007). Funding Source: Brigham Young University Mary Lou Fulton Chair for the College of Health and Human Performance. Amount Requested: \$2,350; Amount Funded: \$1,950. Role: Co-investigator.
31. *Graduate Mentoring Award* (2007). Funding Source: Brigham Young University Graduate School. Amount Requested: \$4,000; Amount Funded: \$4,000. Role: Faculty Mentor.
32. *Walking Speed and the Functional Asymmetry Hypothesis* (2006). Funding Source: College of Health and Human Performance Faculty Fellowship. Amount Requested: \$3,775; Amount Funded: \$3,775. Role: Primary Investigator.
33. *Evaluation of an Isometric Endurance Exercise as a Rehabilitation Tool* (2006). Funding Source: Brigham Young University Faculty Fellowship. Amount Requested: \$2,910; Amount Funded: \$2,910. Role: Co-Investigator.
34. *Lower-extremity Neuromechanics Related to Physical Activity* (2006). Funding Source: Brigham Young University Mentoring Environment Grant. Amount Requested: \$20,000; Not Funded. Role: Co-Investigator.
35. *Creating An Exercise Sciences Research Mentoring Group* (2006). Funding Source: Brigham Young University Mentoring Environment Grant. Amount Requested: \$19,760; Not Funded. Role: Co-Investigator.

Professional Affiliations

- International Association of Medical Science Educators (IAMSE), 2017
- American Society of Biomechanics (ASB), 2003-present
- American College of Sports Medicine (ACSM), 2000-present
- National Athletic Trainers Association (NATA), 2000-present

Awards & Honors

- Visiting Scholar Award, American College of Sports Medicine (ACSM), 2017
- Faculty Mentor for the Best Research Presentation From an Undergraduate Student, National Athletic Trainers Association Foundation Student Research Awards Competition, 2008
- Outstanding Recent Graduate Award, College of Education, Utah State University, 2008
- Outstanding Recent Graduate Award, Department of Health, Physical Education, and Recreation, Utah State University, 2008
- Hackensmith Award, Presented to the Outstanding Graduate Student, Department of Kinesiology and Health Promotion, University of Kentucky, 2005
- Participant in the Excellence in Science Program, American Association for the Advancement of Science, 2004
- Robins Award Finalist, Utah State University, 2002

Professional Activity

- Session Moderator, Regional and National American Society of Biomechanics Meetings, 2015, 2017
- Gerontology Program Faculty Affiliate, Brigham Young University, 2016-present
- Editorial Board Member for the Journal of Sport Rehabilitation, 2015-present
- Neuromuscular Control Poster Committee Member, American College of Sports Medicine Meeting, 2016
- Organizing Committee Member, Annual Meeting of the Rocky Mountain Region of the American Society of Biomechanics, 2015
- Ad Hoc Reviewer for the Following Academic Journals (on average, I review approximately 2 manuscripts each month):
 - Assistive Technology
 - Gait and Posture
 - Human Movement Science
 - Journal of Applied Biomechanics
 - Journal of Athletic Training
 - Journal of Biomechanics
 - Journal of Sport Rehabilitation
 - Journal of Quantitative Analysis of Sports
 - Medicine and Science in Sports and Exercise
 - Medical Principles and Practice
 - Scandinavian Journal of Medicine and Science in Sports
 - Sports Biomechanics
 - Sports Medicine
 - Sports Medicine, Arthroscopy, Rehabilitation, Therapy, and Technology
- Abstract Reviewer, Annual Meetings for the American Society of Biomechanics, 2013, 2016, 2017
- Communications Committee, American Society of Biomechanics, 2009-2012
- External Dissertation Review, University of Western Australia, 2010

- Invited Lecturer, Graduate Course in Biomechanics (ME 555), Department of Mechanical Engineering, Brigham Young University, 2009, 2011
- Moderator, Utah Conference on Undergraduate Research, 2008
- Invited Lecturer, Undergraduate Course in Biomechanics, Utah State University, 2006-2008
- Invited Lecturer, Undergraduate Course in Anatomical and Mechanical Kinesiology, University of Kentucky, 2004-2006
- Invited Presenter, University of Kentucky Girls in Science Program, 2005
- Invited Lecturer, Seminar Series for Biomedical Engineering, University of Kentucky, 2005
- Invited Lecturer, Advanced Seminar in Athletic Training, University of Kentucky, 2004
- Biodynamics Laboratory Web Site Manager, University of Kentucky, 2003–2005
- Invited Lecturer, Seminar in Exercise Science, University of Kentucky, 2002

Service

University/College/Departmental Committees (Brigham Young University)

- Associate Department Chair, Department of Exercise Sciences, 2016-present
- Department Advisory Committee Member, Department of Exercise Sciences, 2016-present
- Department Curriculum Committee Chair, Department of Exercise Sciences, 2016-present
- Human Performance Research Center Director, 2012-present
- Biomechanics Lab Director, Human Research Performance Center, 2010-present
- Departmental Review Committee Member, Department of Exercise Sciences, 2015
- Reviewer for Office of Research and Creative Activities Grants (BYU), 2014-present
- Ad-hoc Search Committee Member, Exercise Sciences Faculty Position, 2014-2015
- Ad-hoc Search Committee Chair, Exercise Sciences Faculty Position, 2013-2014
- Ad-hoc Search Committee Member, Exercise Sciences Faculty Position, 2012-2013
- Ad-hoc Search Committee Member, Exercise Sciences Faculty Position, 2008-2009
- Ad-hoc Search Committee, Exercise Sciences Faculty Position, 2007-2008
- New Faculty Mentor, 2011-present
- Departmental Strategic Planning Committee, 2011-2012
- College Safety Committee, College of Life Sciences, 2010-2013
- College Curriculum Committee Member, College of Life Sciences, 2016-present
- Computer Users Council, College of Life Sciences, 2009-present
- Departmental Representative, College of Health and Human Performance Magazine Committee, 2007–2009
- University Office of Research and Creative Activities Symposium Review Committee, 2006

Recent Graduate Student Mentoring

Committee Chair

Sunku Kwon	PhD (Physical Medicine & Rehab)	Graduation—Aug 2018
Matthew Denning	PhD (Exercise Sciences)	Graduated—Aug 2014
Alyssa Evans	MS (Exercise Sciences)	Graduation—Aug 2018
Emily Cronk	MS (Exercise Sciences)	Graduated—Dec 2016
Scott Woodland	MS (Exercise Sciences)	Graduated—Aug 2013
Maggie Chan-Roper	MS (Exercise Sciences)	Graduated—Aug 2011
Merrill Funk	MS (Exercise Sciences)	Graduated—Dec 2010

Committee Member

Jun Son	PhD (Physical Medicine & Rehab)	Graduation—Aug 2018
Jake Merrell	PhD (Mechanical Engineering)	Graduation—Aug 2018
David Wood	PhD (Mechanical Engineering)	Graduation—Aug 2019
Hyunsoo Kim	PhD (Physical Medicine and Rehab)	Graduated—Aug 2015
Sean Tolman	PhD (Mechanical Engineering)	Graduated—August 2014
Mark Coglianesse	PhD (Physical Medicine and Rehab)	Graduated—Aug 2012
Jihong Park	PhD (Physical Medicine and Rehab)	Graduated—Dec 2011
Jeremy Hawkins	PhD (Physical Medicine and Rehab)	Graduated—April 2009
Romina Villamonte	PhD (Physical Medicine and Rehab)	Graduated—April 2009
Adin Martineau	MS (Mechanical Engineering)	Graduation—Dec 2017
James Tracy	MS (Exercise Sciences)	Graduation—Aug 2017
Evan Bird	MS (Mechanical Engineering)	Graduation—April 2017
Parker Rosquist	MS (Mechanical Engineering)	Graduation—April 2017
Noelle Tuttle	MS (Exercise Sciences)	Graduation—April 2016
Michael Sanders	MS (Mechanical Engineering)	Graduated—Dec 2015
Jun Son	MS (Exercise Sciences)	Graduated—April 2014
Caisa Brooks	MS (Exercise Sciences)	Graduated—Dec 2013
Jill Williams	MS (Exercise Sciences)	Graduated—Dec 2013
Sarah Ingebretsen	MS (Exercise Sciences)	Graduated—Aug 2013

Professional References

- Eadric Bressel, EdD, Professor; Department of Health, Physical Education and Recreation; Utah State University, Logan UT; Phone: 435.797.7216; E-mail: eadric.bressel@usu.edu
- Robert Shapiro, PhD, FACSM, Professor; Director of the University of Kentucky Biodynamics Lab; Department of Kinesiology and Health Promotion, and Department of Biomedical Engineering; University of Kentucky, Lexington, KY; Phone: 859.257.9852; E-mail: rshap01@uky.edu
- Brian Umberger, PhD, Associate Professor; Department of Kinesiology, University of Massachusetts, Amherst, MA; Phone: 413.545.1436; Email: umberger@kin.umass.edu
- Timothy L. Uhl, PhD, ATC, PT, Professor and Director of Research; Division of Graduate Athletic Training, Department of Rehabilitative Sciences, College of Health Sciences, University of Kentucky, Lexington, KY; Phone: 859.323.1100 ext. 80858; E-mail: tluhl2@uky.edu