

KATHY LIU, PhD, ATC

CURRENT CONTACT INFORMATION

University of Colorado Colorado Springs
Helen & Arthur Johnson Beth-El College of Nursing & Health Sciences
Department of Health Sciences
1420 Austin Bluffs Parkway
487 Hybl
Colorado Springs, CO 80918
(719)-255-5157 (O)
kliu@uccs.edu

EDUCATION

- 2009 - 2012 **University of Delaware** Newark, DE
Doctor of Philosophy, Biomechanics and Movement Sciences
- Advisor: Thomas W. Kaminski
 - Dissertation: An Examination of Various Diagnostic Frameworks Used to Differentiate Subjects with Chronic Ankle Instability
- 2007 - 2008 **University of Northern Colorado** Greeley, CO
Masters of Science, Exercise Science: Biomechanics
- Advisor: Gary D. Heise
 - Thesis: Effects of Jump Direction and Prophylactic Taping on Dynamic Stability
- 2001 - 2002 **Washburn University** Topeka, KS
Bachelor of Arts, Athletic Training
- 1998 - 2001 **University of Kansas** Lawrence, KS
Athletic Training

PROFESSIONAL EXPERIENCE

- University of Colorado**, Colorado Springs, CO
- *Associate Professor* 2019 - current
Helen & Arthur E. Johnson Beth-El College of Nursing & Health Sciences, Department of Health Sciences
 - *Assistant Dean* for Interprofessional Education 2020 - current
- University of Evansville**, Evansville, IN
- *Associate Professor*, School of Health Sciences and Department of Physical Therapy 2018 - 2019

- *Assistant Professor*, School of Health Sciences and Department of Physical Therapy 2012 - 2018
- *Program Director*, Master of Science in Athletic Training 2013 - 2019

- Indiana University**, Bloomington, IN 2012- 2014
 - *Assistant Professor*, Graduate Faculty Status, School of Public Health

- University of Delaware**, Newark, DE
 - *Instructor*, Department of Kinesiology and Applied Physiology 2009-2012
 - *Coordinator*, Athletic Training Interest (ATI) Program 2009-2012
 - *Instructor*, Department of Nursing 2010

- University of Northern Colorado**, Greeley, CO
 - *Teaching Assistant*, School of Sport and Exercise Science 2008

- Aims Community College**, Greeley, CO
 - *Instructor* 2007-2008

CLINICAL EXPERIENCE

- 2019- current **Centura Health**
Colorado Springs, CO
Athletic Trainer
- PRN Athletic Trainer for various club, high school, professional sports
- 2007 - 2009 **University of Northern Colorado, Club Sports**
Greeley, CO
Head Athletic Trainer
- Head Athletic Trainer of Club Sports; home game coverage for men's and women's rugby, men's and women's lacrosse, men's and women's soccer, and men's ice hockey; traveled for post-season tournaments; coverage included emergency management, assessment of injuries, and prophylactic taping; set up budget and ordering of materials
- 2005 - 2007 **Physiotherapy Associates**
Phoenix, AZ and Thornton, CO
Athletic Trainer, Rehab Specialist
- Athletic Trainer at a very busy physical therapy clinic; duties included assisting the physical therapist, supervision of rehabilitation exercises, and supervision of preventative medicine through an exercise regimen
- 2003 - 2005 **SportsMend Sports Medicine**
Ft. Collins, CO
Athletic Trainer

- High school Athletic Trainer for several area high schools; coverage included practice and game coverage of emergency management, assessment of injuries, prophylactic taping, and creating rehabilitation programs; supervised high school student assistants

PEER-REVIEWED JOURNAL PUBLICATIONS

Stubblefield G, Tilly J, **Liu K**. Assessment of Ankle Ligament Laxity After an Acute Lateral Ankle Sprain: A Case Series Report. *International Journal of Athletic Training and Therapy*, 2019, 24, 50-53.

Bigouette JP, Simon J, **Liu K**, Docherty C. Altered Vertical Ground Reaction Forces Found In Participants With Chronic Ankle Instability while Running. *Journal of Athletic Training*, 2016, 51, 682-687.

Liu K, Dierkes C, Blair L. A New Jump-Landing Protocol Identifies Differences in Healthy, Coper, and Unstable Ankles in Collegiate Athletes. *Sports Biomechanics*, 2016, 15, 245-254.

DuPrey K, **Liu K**, Reisman A, Webner D, Collina S, Kaminski TW. Baseline Time to Stabilization Identifies Anterior Cruciate Ligament Rupture Risk in Collegiate Athletes. *American Journal of Sports Medicine*, 2016, 44, 1487-1491.

Liu K, Gustavsen G, Wikstrom E, Royer T, Glutting J, Kaminski TW. Increased Ligament Thickness Exists in Unstable Ankles as Measured by Musculoskeletal Ultrasound. *Journal of Athletic Training*, 2015, 50, 193-198.

Liu K, Glutting J, Wikstrom E, Royer T, Gustavsen G, Kaminski TW. Examining the Diagnostic Accuracy of Dynamic Postural Stability Measures in Differentiating Among Ankle Instability Status. *Clinical Biomechanics*, 2013, 28(2). 211-217.

Liu K, Heise GD. The Effect of Jump Direction on Dynamic Stability. *Journal of Applied Biomechanics*, 2013, 29, 634-638.

Liu K, Gustavsen G, Kaminski TW. Increased Incidence of Ankle Sprain Does Not Lead to an Increase in Ligament Laxity. *Clinical Journal of Sports Medicine*, 2013, 23(6), 483-487.

Liu K, Uygur M, Kaminski TW. The Effects of Ankle Instability on Gait Parameters: A Systematic Review. *Athletic Training and Sports Healthcare*, 2012, 4(6). 275-281.

MANUSCRIPTS IN PREPARATION

Chen S, Plocek E, **Liu K**. The Effect of Tissue Temperature on Ankle Ligament Laxity. Submitted to *Athletic Training and Sports Healthcare*.

Dierkes C, Tilly J, **Liu K**. Proprioceptive Differences in Individuals with a Unilateral Anterior Cruciate Ligament Reconstruction. Submitted to the *Journal of Athletic Training*.

Dimmitt M, Needle A, **Liu K**. Examining the Roles of Ocular and Leg Dominance in Single-Leg Balance.

Dierkes C, Boester A, **Liu K**. Long-Term Prophylactic Ankle Bracing Does Not Affect Dynamic Stability.

Dierkes C, Boswell B, **Liu K**. The Effects of Fatigue on Dynamic Postural Stability.

Liu K, Patel-Dovlatabadi P, Kaminski TW. Ankle Sprain Risk Factors: A Longitudinal Study.

Naguib S, **Liu K**, Kaminski TW. An Examination of Foot Parameters in those with Chronic Ankle Instability.

PEER-REVIEWED ABSTRACT PUBLICATIONS

Liu K, Perry M, McConnell W, Gustavsen G, Kaminski TW. The Risk of Ankle Sprains Based on Dynamic Stability Measurements: A Longitudinal Study. *Journal of Athletic Training: Supplemental Issue*, 2018, 53(6) S-23.

Perry M, **Liu K**, McConnell W, Gustavsen G, Kaminski TW. The Risk of Ankle Sprains Based on Arthrometer Measurements: A Longitudinal Study. *Journal of Athletic Training: Supplemental Issue*, 2018, 53(6) S-21-22.

Liu K, Stubblefield G. Following Changes in Ligament Laxity through the Healing Phases after an Ankle Sprain. *Journal of Athletic Training: Supplemental Issue*, 2017, 52(6), S-217-218.

Stubblefield G, **Liu K**. Examining the Differences in Ligament Laxity through the Use of an Instrumented Ankle Arthrometer. *Journal of Athletic Training: Supplemental Issue*, 2017, 52(6), S-217.

Chen S, Plocek E, **Liu K**. The Effects of Heat on Ligament Laxity of the Ankle in Healthy Individuals. *Journal of Athletic Training: Supplemental Issue*, 2017, 52(6), S-309.

Liu K, Stubblefield G. Differences in Ankle Ligament Laxity between those with and without Lower Extremity Injuries. *British Journal of Sports Medicine*, 2017, 51(S1), A25.

Liu K, Webster KA, Kaminski TW. Examining the Relationship between Ligament Laxity and Dynamic Stability among Healthy, Coper, and Unstable Ankles. *Journal of Athletic Training: Supplemental Issue*, 2016, 51(6), S-188.

Liu K, Webster KA, Kaminski TW. Examining the Relationship between Ligament Laxity and Dynamic Stability among Healthy, Coper, and Unstable Ankles. *Journal of Athletic Training: Supplemental Issue*, 2016, 51(6), S-188.

Webster KA, **Liu K**, Kaminski TW. The Correlation of Frontal Plane Ankle Joint Laxity to Frontal Plane Time-to-Stabilization Measures in Healthy and Ankle-Injured Patients. *Journal of Athletic Training: Supplemental Issue*, 2016, 51(6), S-187.

Dierkes C, Griebel E, **Liu K**. A Within-Subjects Analysis of Proprioceptive Changes in Individuals with Post-Rehabilitated Unilateral Anterior Cruciate Ligament Reconstruction. *Journal of Athletic Training: Supplemental Issue*, 2016, 51(6), S-248.

Liu K, Dierkes C, Blair L. Assessing a Novel Jump-Landing Protocol for Dynamic Stability in High-Level Athletes. *British Journal of Sports Medicine*, 2015, 49(S1), A18.

Liu K, Patel-Dovlatabadi P, Kaminski TW. Examining Relative Risk Ratios between Measures of Dynamic Stability and Ankle Sprain in a Collegiate Athletic Population. *Journal of Athletic Training: Supplemental Issue*, 2015, 50(6), S-102.

Dierkes C, Blair L, **Liu K**. Development of a New Jump-Landing Protocol for High-Level Athletes. *Journal of Athletic Training: Supplemental Issue*, 2015, 50(6), S-200.

Kaminski TW, Patel-Dovlatabadi P, **Liu K**. Examining Relative Risk Ratios of Lower Leg Strength in Ankle Sprains. *Journal of Athletic Training: Supplemental Issue*, 2015, 50(6), S-103.

Stant MF, **Liu K**, Kaminski TW. Utilizing a Contemporary Paradigm to Classify Collegiate Athletes with Chronic Ankle Instability. *Journal of Athletic Training: Supplemental Issue*, 2015, 50(6), S-263.

Bigouette JP, Simon JE, **Liu K**, Docherty CD. Altered Vertical Ground Reaction Forces in Participants with Chronic Ankle Instability while Running. *Journal of Athletic Training: Supplemental Issue*, 2015, 50(6), S-255.

Dierkes C, Boswell B, **Liu K**. Differences in Loading Rate Between Healthy and Unstable Ankles After Fatigue. *Medicine & Science in Sports & Exercise*, 2015, 47(5S), 62-63.

Boswell B, Dierkes C, **Liu K**. The Effects of Fatigue on Dynamic Postural Stability. *Medicine & Science in Sports & Exercise*, 2015, 47(5S), 62.

Bhardwaj A, Webner D, DuPrey K, Reisman A, Buckley T, **Liu K**, Kaminski TW. Evaluating the Effect of Previous Concussions on Time to Stabilization. *Clinical Journal of Sports Medicine*, 2015.

Boester A, **Liu K**. Bracing Effects on Dynamic Stability in Individuals who have Never Utilized Prophylactic Bracing. *Journal of Athletic Training: Supplemental Issue*, 2014, 49(3), S-185.

DuPrey K, **Liu K**, Reisman A, Webner D, Collina S, Kaminski TW. Slower Time to Stabilization Predicts ACL Tears in Division I Athletes. *Clinical Journal of Sports Medicine*, 2014.

Liu K, Butterworth C, Gustavsen G, Kaminski TW. Examining Morphological Changes of the Anterior Talofibular Ligament in a Collegiate Volleyball Player Following a Severe Lateral Ankle Sprain. *Journal of Athletic Training: Supplemental Issue*, 2013, 48(3), S-206.

Liu K, Gustavsen G, Kaminski TW. Does Ankle Joint Laxity Correlate with Anterior Talofibular Ligament Thickness? *Medicine & Science in Sports & Exercise Abstract Issue*, 2013.

Kaminski TW, **Liu K**, Gustavsen G. Dorsiflexion Strength Deficits in Intercollegiate Athletes With and Without Self-Reported Ankle Instability: A New Twist. *Medicine & Science in Sports & Exercise Abstract Issue*, 2013.

Liu K, Gustavsen G, Kaminski TW. Examining the Accuracy of Existing Methods to Calculate Dynamic Postural Stability in Healthy, Coper, and Unstable Ankles. *British Journal of Sports Medicine*, 2013, 43(3), A24.

Kaminski TW, **Liu K**, Gustavsen G. A Between Group Analysis of Inversion and Eversion Strength Does Not Distinguish Those With and Without Ankle Instability. *British Journal of Sports Medicine*, 2013, 43(3), A14.

Liu K, Gustavsen G, Kaminski TW. Increased Ligament Thickness Occurs in Previously Sprained Ankles. *Medicine & Science in Sports & Exercise Abstract Issue*, 2012, 44(5S), 28.

Naguib SA, **Liu K**, Kaminski TW. An Examination of Foot Parameters in Subjects with and without Chronic Ankle Instability. *Medicine & Science in Sports & Exercise Abstract Issue*, 2012, 44(5S), 523.

Liu K, Gustavsen G, Kaminski TW. Examining Morphological Changes of the Anterior Talofibular Ligament in Healthy and Previously Sprained Ankles. *Journal of Athletic Training: Supplemental Issue*, 2012, 47(3), S-57.

Dug Su, **Liu K**, Collina S, Webner D, Kaminski TW. An Investigation of Anterior Talofibular Ligament Thickness in Healthy, Unstable, and Coper Ankles. *Clinical Journal of Sports Medicine*, 2012, 22(2), 188.

Liu K, Gustavsen G, Kaminski TW. Increased Incidence of Ankle Sprain Does Not Lead to an Increase in Ligament Laxity. *Medicine & Science in Sports & Exercise Abstract Issue*, 2011.

Kaminski TW, Gustavsen G, **Liu K**, Naguib SA, Glutting JJ. Time to Peak Torque Analysis in Intercollegiate Athletes with Self-Reported Ankle Instability. *Medicine & Science in Sports & Exercise Abstract Issue*, 2011, 43(5S), 342-343.

Liu K, Naguib SA, Gustavsen G, Kaminski TW. Plantar Flexion and Inversion Strength Deficits Revealed in Previously Sprained Ankles. *Journal of Athletic Training: Supplemental Issue*, 2011, 46(3), S-13.

Liu K, Gustavsen G, Kaminski TW. Exploring Dynamic Stability in a Group of Intercollegiate Athletes. *British Journal of Sports Medicine*, 2011, 45(4), 329.

Wright J, **Liu K**, Collina S, Webner D, Gustavsen G, Reisman A, Kaminski TW. Is There a Relationship Between Anterior Talofibular Ligament Thickness and Ankle Stability Status? *Clinical Journal of Sports Medicine*, 2010, 20(2), 145-146.

Liu K, Heise GD. The Influence of Ankle Taping on Dynamic Stability in a Group of Healthy Participants. *Journal of Orthopaedic and Sports Physical Therapy*, 2009, 31(10), A16.

Sato K, Heise GD, **Liu K**. Relationship between time to stabilization measures and demographic and self-reported data. *Medicine & Science in Sports & Exercise Abstract Issue*, 2009, 41(5), S459.

INTERNATIONAL PRESENTATIONS

Dimmett M, Needle A, **Liu K**. *The Effect of Ocular and Leg Dominance on Single-Leg Balance*. Poster Presentation- 8th International Ankle Symposium; Amsterdam, Netherlands; October 2019.

Liu K, Stubblefield G. *Differences in Ankle Ligament Laxity between those with and without Lower Extremity Injuries*. Poster Presentation- 7th International Ankle Symposium; Chapel Hill, NC; September 2017.

Liu K, Dierkes C, Blair L. *Assessing a Novel Jump-Landing Protocol for Dynamic Stability in High-Level Athletes*. Poster Presentation- 6th International Ankle Symposium; Dublin, Ireland; October 2015.

Liu K, Gustavsen G, Kaminski TW. *Examining the Accuracy of Existing Methods to Calculate Dynamic Postural Stability in Healthy, Copers, and Unstable Ankles*. Poster Presentation- 5th International Ankle Symposium; Lexington, KY; October 2012.

Kaminski TW, **Liu K**, Gustavsen G. *A Between Group Analysis of Inversion and Eversion Strength Does Not Distinguish Those With and Without Ankle Instability*. Podium Presentation- 5th International Ankle Symposium; Lexington, KY; October 2012.

Liu K, Gustavsen G, Kaminski TW. *Exploring Dynamic Stability in a Group of Intercollegiate Athletes*. Podium Presentation- International Olympic Committee World Conference on Prevention of Injury & Illness in Sport; Monte Carlo, Monaco; April 2011.

Liu K, Gustavsen G, Kaminski TW. *Exploring Ankle Ligament Laxity Differences Between Male and Female Collegiate Athletes*. Poster Presentation- International Foot and Ankle Biomechanics Annual Meeting; Seattle, WA; September 2010.

Sato K, Heise G, **Liu K**. *Dynamic Stabilization Analysis in Pre and Post Seasons for Collegiate Female Volleyball Players*. Poster Presentation- International Society of Biomechanics in Sports Annual Meeting; Limerick, Ireland; August 2009.

Liu K, Heise G. *The Influence of Ankle Taping on Dynamic Stability in a Group of Healthy Participants*. Podium Presentation- 4th International Ankle Symposium; Sydney, Australia; July 2009.

Sato K, Heise G, **Liu K**. *Differences in dynamic stabilization between volleyball and rugby players*. Poster Presentation- International Society of Biomechanics Annual Meeting; Seoul, Korea; June 2008.

NATIONAL PRESENTATIONS

Liu K, Perry M, McConnell W, Gustavsen G, Kaminski TW. *The Risk of Ankle Sprains Based on Dynamic Stability Measurements: A Longitudinal Study*. Podium Presentation- National Athletic Trainers' Association Annual Meeting; New Orleans, LA; June 2018.

Perry M, **Liu K**, McConnell W, Gustavsen G, Kaminski TW. *The Risk of Ankle Sprains Based on Arthrometer Measurements: A Longitudinal Study*. Podium Presentation- National Athletic Trainers' Association Annual Meeting; New Orleans, LA; June 2018.

NATAREF Masters Research Award Winner

Liu K, Stubblefield G. *Following Changes in Ligament Laxity through the Healing Phases after an Ankle Sprain*. Accepted for Poster Presentation- National Athletic Trainers' Association Annual Meeting; Houston, TX; June 2017.

Stubblefield G, **Liu K**. *Examining the Differences in Ligament Laxity through the Use of an Instrumented Ankle Arthrometer*. Accepted for Poster Presentation- National Athletic Trainers' Association Annual Meeting; Houston, TX; June 2017.

Chen S, Plocek E, **Liu K**. *The Effects of Heat on Ligament Laxity of the Ankle in Healthy Individuals*. Accepted for Poster Presentation- National Athletic Trainers' Association Annual Meeting; Houston, TX; June 2017.

Chen S, Plocek E, **Liu K**. *Increasing Temperature Increases Ligament Laxity in the Ankle Joint*. Poster Presentation- National Conference in Undergraduate Research Annual Meeting; Memphis, TN; April 2017.

Liu K, Webster KA, Kaminski TW. *Examining the Relationship between Ligament Laxity and Dynamic Stability among Healthy, Coper, and Unstable Ankles*. Oral Presentation- National Athletic Trainers' Association Annual Meeting; Baltimore, MD; June 2016.

Webster KA, **Liu K**, Kaminski TW. *The Correlation of Frontal Plane Ankle Joint Laxity to Frontal Plane Time-to-Stabilization Measures in Healthy and Ankle-Injured Patients*. Oral Presentation- National Athletic Trainers' Association Annual Meeting; Baltimore, MD; June 2016.

Dierkes C, Greibel E, **Liu K**. *A Within-Subjects Analysis of Proprioceptive Changes in Individuals with Post-Rehabilitated Unilateral Anterior Cruciate Ligament Reconstruction*. Poster Presentation- National Athletic Trainers' Association Annual Meeting; Baltimore, MD; June 2016.

Liu K, Patel-Dovlatabadi P, Kaminski TW. *Examining Relative Risk Ratios between Measures of Dynamic Stability and Ankle Sprain in a Collegiate Athletic Population*. Oral Presentation- National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2015.

Kaminski TW, Patel-Dovlatabadi P, **Liu K**. *Examining Relative Risk Ratios of Lower Leg Strength in Ankle Sprains*. Oral Presentation- National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2015.

Dierkes C, Blair L, **Liu K**. *Development of a New Jump-Landing Protocol for High-Level Athletes*. Poster Presentation- National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2015.

*****NATAREF Undergraduate Research Award Finalist*****

Stant MF, **Liu K**, Kaminski TW. *Utilizing a Contemporary Paradigm to Classify Collegiate Athletes with Chronic Ankle Instability*. Poster Presentation- National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2015.

Bigouette JP, Simon JE, **Liu K**, Docherty CD. *Altered Vertical Ground Reaction Forces in Participants with Chronic Ankle Instability while Running*. Poster Presentation- National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2015.

Dierkes C, Boswell B, **Liu K**. *Differences in Loading Rate Between Healthy and Unstable Ankles After Fatigue*. Poster Presentation- American College of Sports Medicine Annual Meeting; San Diego, CA; May 2015.

Boswell B, Dierkes C, **Liu K**. *The Effects of Fatigue on Dynamic Postural Stability*. Poster Presentation- American College of Sports Medicine Annual Meeting; San Diego, CA; May 2015.

Bhardwaj A, Webner D, DuPrey K, Reisman A, Buckley T, **Liu K**, Kaminski TW. *Evaluating the Effect of Previous Concussions on Time to Stabilization*. Podium Presentation – American Medical Society for Sports Medicine Annual Meeting; Hollywood, FL; April 2015.

NATA 65th Annual Meeting and Clinical Symposia, Free Communications Research Session, Moderator. Indianapolis, IN, 2014. *“Chronic Ankle Instability”*.

*** **Invited** ***

Boester A, **Liu K**. *Bracing Effects on Dynamic Stability in Individuals who have Never Utilized Prophylactic Bracing*. Poster Presentation- National Athletic Trainers' Association Annual Meeting; Indianapolis, IN; June 2014.

DuPrey K, **Liu K**, Reisman A, Webner D, Collina S, Kaminski TW. *Slower Time to Stabilization Predicts ACL Tears in Division I Athletes*. Podium Presentation – American Medical Society for Sports Medicine Annual Meeting; New Orleans, LA; April 2014.

Liu K, Butterworth C, Gustavsen G, Kaminski TW. *Examining Morphological Changes of the Anterior Talofibular Ligament in a Collegiate Volleyball Player Following a Severe Lateral Ankle Sprain*. Poster Presentation- National Athletic Trainers' Association Annual Meeting; Las Vegas, NV; June 2013.

Liu K, Gustavsen G, Kaminski TW. *Does Ankle Joint Laxity Correlate with Anterior Talofibular Ligament Thickness?* Poster Presentation- American College of Sports Medicine Annual Meeting; Indianapolis, IN; June 2013.

Liu K, Gustavsen G, Kaminski TW. *Examining Morphological Changes of the Anterior Talofibular Ligament in Healthy and Previously Sprained Ankles.* Podium Presentation- National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2012.

NATAREF Doctoral Student Oral Award Finalist

Liu K, Gustavsen G, Kaminski TW. *Increased Ligament Thickness Occurs in Previously Sprained Ankles.* Podium Presentation- American College of Sports Medicine Annual Meeting; San Francisco, CA; June 2012.

Naguib SA, **Liu K**, Kaminski TW. *An Examination of Foot Parameters in Subjects with and without Chronic Ankle Instability.* Poster Presentation- American College of Sports Medicine Annual Meeting; San Francisco, CA; June 2012.

Dug Su, **Liu K**, Collina S, Webner D, Kaminski TW. *An Investigation of Anterior Talofibular Ligament Thickness in Healthy, Unstable, and Coper Ankles.* Poster Presentation – American Medical Society for Sports Medicine Annual Meeting; Atlanta, Georgia; April 2012.

Naguib SA, **Liu K**, Kaminski TW. *An Examination of Foot Parameters in those with and without Chronic Ankle Instability.* Poster Presentation- Undergraduate Research and Service Celebratory Symposium; University of Delaware, Newark, DE; August 2011.

Liu K, Naguib SA, Gustavsen G, Kaminski TW. *Plantar Flexion and Inversion Strength Deficits Revealed in Previously Sprained Ankles.* Podium Presentation- National Athletic Trainers' Association Annual Meeting; New Orleans, LA; June 2011.

Liu K, Gustavsen G, Kaminski TW. *Increased Incidence of Ankle Sprain Does Not Lead to an Increase in Ligament Laxity.* Podium Presentation- American College of Sports Medicine Annual Meeting; Denver, CO; June 2011.

Kaminski TW, Gustavsen G, **Liu K**, Naguib SA, Glutting JJ. *Time to Peak Torque Analysis in Intercollegiate Athletes with Self-Reported Ankle Instability.* Poster Presentation- American College of Sports Medicine Annual Meeting; Denver, CO; June 2011.

Liu K, Gustavsen G, Kaminski TW. *Do Those with Perceived Ankle Instability have Associated Mechanical Instability?* Poster Presentation- American Society of Biomechanics Annual Meeting; Providence, RI; August 2010.

Student Research Award

Wright J, **Liu K**, Collina S, Webner D, Gustavsen G, Reisman A, Kaminski TW. *Is There a Relationship Between Anterior Talofibular Ligament Thickness and Ankle Stability Status?* Poster Presentation – American Medical Society for Sports Medicine Annual Meeting; Cancun, Mexico; April 2010.

Liu K, Heise GD. *The Influence of Jump Landings on Dynamic Stability*. Poster Presentation- American Society of Biomechanics Annual Meeting; State College, PA; August 2009.

Student Research Award

Heise GD, **Liu K**, Smith J., Allen A, Hoke M. *Dynamic Stability Assessed with Frequency Analysis Compared to Spatiotemporal Analysis*. Poster Presentation- American Society of Biomechanics Annual Meeting; State College, PA; August 2009.

Sato K, Heise G, **Liu K**. *Relationship between TTS measures and demographic and self-selected data*. Poster Presentation- American College of Sports Medicine Annual Meeting; Seattle, WA; May 2009.

GRANT FUNDING

University of Evansville, Academic Fund Board- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; Las Vegas, NV; June 2019. Funded for \$1000. UE student: Gabriella Korte.

University of Evansville, Academic Fund Board- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; New Orleans, LA; June 2018. Funded for \$1700. UE student: Morgan Perry.

University of Evansville, Academic Fund Board- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; Houston, TX; June 2017. Funded for \$1215.04. UE student: Stacey Chen.

University of Evansville, Academic Affairs Travel Grant- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; Houston, TX; June 2017. Funded for \$400. UE student: Gabby Stubblefield.

University of Evansville, Academic Fund Board- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; Baltimore, MD; June 2016. Funded for \$1169. UE student: Caitie Dierkes.

UExplore Research Grant- *An Examination of Proprioception and Dynamic Stability in Individuals with Previous ACL-Reconstruction*; Summer 2015; Funded for \$12,270. PI: Kathy Liu, PhD, ATC; UE student: Caitie Dierkes.

Breg: Product Grant- Funded for a custom-made knee brace, equivalent to \$1000. Summer 2015. *An Examination of Proprioception and Dynamic Stability in Individuals with Previous ACL-Reconstruction*. PI: Kathy Liu, PhD, ATC

UExplore Travel Grant- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; St. Louis, MO; June 2015. Funded for \$700. UE student: Caitie Dierkes.

University of Evansville, Academic Affairs Travel Grant- *Travel Grant* for student presentations at the American College of Sports Medicine Annual Meeting; San Diego, CA; May 2015. Funded for \$800. UE students: Caitie Dierkes, Bronwyn Boswell.

UExplore Travel Grant- *Travel Grant* for student presentations at the American College of Sports Medicine Annual Meeting; San Diego, CA; May 2015. Funded for \$1556. UE student: Caitie Dierkes, Bronwyn Boswell.

University of Evansville, Academic Affairs Travel Grant- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; Indianapolis, IN; June 2014. Funded for \$550. UE student: Adam Boester.

University of Evansville, Alumni Research and Scholarly Activity Fellowship- *Travel Grant* for student presentation at the National Athletic Trainers' Association Annual Meeting; Indianapolis, IN; June 2014. Funded for \$455. UE student: Adam Boester.

UExplore Research Grant- *An Examination of Prolonged Prophylactic Bracing on Muscle Activation and Proprioception*; Summer 2013; Funded for \$11,350. PI: Kathy Liu, PhD, ATC; UE student: Adam Boester.

Active Ankle Systems Inc. of Cramer Products Inc.: Product Grant- Funded for ankle braces, equivalent to \$1500. Summer 2013. *An Examination of Prolonged Prophylactic Bracing on Muscle Activation and Proprioception*. PI: Kathy Liu, PhD, ATC

ASO Ankle Braces of Medical Specialties Inc.: Product Grant- Funded for ankle braces, equivalent to \$500. Summer 2013. *An Examination of Prolonged Prophylactic Bracing on Muscle Activation and Proprioception*. PI: Kathy Liu, PhD, ATC

UExplore Research Grant- *Developing a New Jump-Landing Protocol for Dynamic Postural Stability*; Spring 2013; Not Funded. PI: Kathy Liu, PhD, ATC; UE student: Logan Blair.

UExplore Research Grant- *The Effects of KinesioTape on Pain in those with Medial Tibial Stress Syndrome*; Summer 2014; Not Funded. PI: Kathy Liu, PhD, ATC; UE student: Elizabeth Kingshott.

COURSES TAUGHT

University of Colorado, Colorado Springs, CO 2019 - current
Associate Professor, Helen & Arthur E. Johnson Beth-El College of Nursing & Health Sciences
Graduate level faculty

- ATRN 5011: Injury Diagnosis & Management I
- ATRN 5051: Athletic Training Lab I
- ATRN 5012: Injury Diagnosis & Management II
- ATRN 5052: Athletic Training Lab II

- ATRN 5013: Injury Diagnosis & Management III
- ATRN 6053: Athletic Training Lab III
- ATRN 6010: Pharmacology & General Medical Conditions
- ATRN 6054: Athletic Training Lab IV
- ATRN 6090: Graduate Research Project
- HSCI 4610: Sports Injury and Prevention

University of Evansville, Evansville, IN 2012 - 2019

Assistant/Associate Professor, School of Health Sciences and Department of Physical Therapy

Undergraduate and Graduate level faculty

- AT 280: Intro to Athletic Training
- AT 490/690: General Medical Conditions and Pharmacology
- AT 492/692: Clinical Education in Athletic Training
- AT 521: Graduate Applied Anatomy
- AT 580: Evidence Based-Inquiry
- AT 693: Professional Issues in Athletic Training
- AT 699: Directed Evidence Based-Inquiry
- EXSS 112: Human Anatomy and Physiology I
- EXSS 113: Human Anatomy and Physiology II
- EXSS 321: Applied Anatomy (Cadaver Anatomy)
- EXSS 356: Biomechanics
- EXSS 417: Advanced Exercise Science
- EXSS 493: Senior Seminar, Current Issues in Exercise and Sport Science
- ID 356: Functional Anatomy and Biomechanics
- PT 435/535: Foundations in Biomechanics
- PT 432/532: Kinesiology

University of Delaware, Newark, DE 2009-2012

Instructor, Department of Kinesiology and Applied Physiology

Undergraduate level faculty

- KAAP 350: Basic Concepts in Kinesiology
- HESC 220: Human Anatomy and Physiology
- HESC 120: Physical Education
- NURS 101: Human Anatomy

University of Northern Colorado, Greeley, CO 2008

Teaching Assistant, School of Sport and Exercise Science

- HSES 220L: Human Anatomy Lab

Aims Community College, Greeley, CO 2007-2008

Instructor

- PED 100 Level: Physical Education
- Activities class; Courses include: Basketball, Ultimate Frisbee, Soccer

RESEARCH MENTORING

2020	Elizabeth Carrington (MS-project), Gaby Opperman (MS-project)
2018- 2019	Gabriella Korte (MS-project), Morgan Cornell (MS-paper)
2016- 2019	Everett Plocek, Stacey Chen, Katie Blankenship, Macy Dimmett
2016-2018	Rogan Logsdon (MS-thesis), Morgan Perry (MS-project)
2015-2017	Caitlin Dierkes (MS-thesis), Gabrielle Stubblefield (MS-thesis), TJ Hall (MS- paper)
2013-2016	Emily Greibel, Bronwyn Boswell
2012-2015	Logan Blair, Austin Schapker, Morgan Pruitt, Nick Schroeder, Elizabeth Kingshott, Kirsten Perry, Adam Boester, Caitlin Dierkes, John Paul Bigouette (MS-thesis)
2011-2012	Margaret Lefelar, Kim Sipple, Hilary O'Connor, Florina Kraiter, Christina Shields (MS-thesis), Athena DeAngelis (MS-thesis)
2010 – 2011	Sarah Naguib, Lauren Hewitt, Shirleeyah Fayson, Christina Shields (MS-thesis), Athena DeAngelis (MS-thesis), Gabe Fife (MS-thesis), Peter Braun (MS-thesis)
2009 - 2010	Lauren Hewitt, Gabe Fife (MS-thesis), Peter Braun (MS-thesis)

SOFTWARE/ HARDWARE EXPERIENCE

LabVIEW
AMTI Force Plates
KinCom Isokinetic Dynamometer
EvaRT/ Cortex interface with Eagle Cameras
Vicon Motus
PAWS (SPSS)
Microsoft Office
Musculoskeletal Ultrasound

PROFESSIONAL SERVICE

Associate Editor, Athletic Training and Sports Healthcare

Manuscript Reviewer, Journal of Athletic Training

Manuscript Reviewer, Journal of Applied Biomechanics

Manuscript Reviewer, Gait and Posture

Manuscript Reviewer, Journal of Foot and Ankle Research

Manuscript Reviewer, Physical Therapy in Sport

Abstract Reviewer, National Athletic Trainers' Association

Abstract Reviewer, Eastern Athletic Trainers' Association

UNIVERSITY SERVICE

2019 **Search Committee Chair, Assistant/Associate Professor of Health Promotion**

University of Colorado Colorado Springs, Department of Health Sciences

2013 – 2019 **Program Director, Masters of Science in Athletic Training**

University of Evansville, School of Health Sciences

2013 - 2019 **Athletic Training, First Year Experience Coordinator**

University of Evansville, School of Health Sciences

2014 – 2019 **Academic Services Committee**

University of Evansville

2014 – 2019 **IRB Committee**

University of Evansville

2016 – 2019 **Honor's Council Committee**

University of Evansville

2014 - 2015 **Clinical Education Coordinator, Athletic Training Program**

University of Evansville, School of Public Health

2014 – 2015 **Undergraduate Research Committee**

University of Evansville

2014 **JDFR Walk Committee**

University of Evansville

2013-2014 **Physical Therapy Chair Search Committee**
University of Evansville

2012 - 2013 **Center for Teaching Excellence**
University of Evansville

2009 - 2012 **Athletic Training Interest (ATI) Coordinator**
University of Delaware, Department of Kinesiology and Applied
Physiology

2009 - 2012 **Athletic Training Education Steering Committee**
University of Delaware, Department of Kinesiology and Applied
Physiology

HONORS AND AWARDS

September 26, 2018 **Student-Athlete Academic Honors**
University of Evansville **Recognition Breakfast Invitee**

Summer 2018 Advisor: **Masters Student Research Award**
National Athletic Trainers' Association Research and Education
Foundation

September 21, 2017 **Student-Athlete Academic Honors**
University of Evansville **Recognition Breakfast Invitee**

April 26, 2017 **Dean's Teaching Award**
University of Evansville

September 29, 2016 **Student-Athlete Academic Honors**
University of Evansville **Recognition Breakfast Invitee**

April 18, 2016 **The National Society of Leadership and**
University of Evansville **Success**
Excellence in Teaching Award

September 29, 2015 **Student-Athlete Academic Honors**
University of Evansville **Recognition Breakfast Invitee**

Summer 2015 Advisor: **Undergraduate Student Research**
Award Finalist
National Athletic Trainers' Association Research and Education
Foundation

2014-2015 **Young Scholar Award**
University of Evansville Awarded to junior faculty with meaningful
and productive research

September 25, 2014 **Student-Athlete Academic Honors**
University of Evansville **Recognition Breakfast Invitee**

<i>April 11, 2014</i> University of Evansville	Chi Omega Professor's Breakfast Honoree
<i>September 25, 2013</i> University of Evansville	Student-Athlete Academic Honors Recognition Breakfast Invitee
<i>February 21, 2013</i> University of Evansville	Alpha Omicron Pi Teacher Appreciation Honoree
<i>November 2, 2012</i> University of Evansville	Women's Volleyball Faculty and Staff Recognition Day Honoree
<i>October 17, 2012</i> University of Evansville	Men's Soccer Faculty and Staff Recognition Day Honoree
<i>September 23, 2012</i> University of Evansville	Women's Soccer Faculty and Staff Recognition Day Honoree
<i>Summer 2012</i> National Athletic Trainers' Association Research and Education Foundation	Doctoral Student Oral Award Finalist
<i>Summer 2012</i> American College of Sports Medicine- Biomechanics Interest Group	Student Research Award
<i>Summer 2011</i> American College of Sports Medicine- Biomechanics Interest Group	Student Research Award
<i>Fall 2011 - Spring 2012</i> University of Delaware	University Graduate Scholar
<i>Fall 2010 - Spring 2011</i> University of Delaware	University Graduate Scholar
<i>Fall 2009 - Spring 2010</i> University of Delaware	University Graduate Scholar
<i>Spring 2009</i> University of Delaware	University Graduate Scholar

PROFESSIONAL CERTIFICATIONS

Certified Athletic Trainer, National Athletic Trainers' Association, Board of Certification, Certification number: 010502033.

Licensed Athletic Trainer, Colorado Department of Regulatory Agencies, License number: AT.0002048

Certified, American Heart Association, CPR and AED for the Professional Rescuer

National Provider Identifier, 1568934586

PROFESSIONAL ASSOCIATION MEMBERSHIPS/PARTICIPATION

National Athletic Trainers' Association (NATA)

Rocky Mountain Athletic Trainers' Association (RMATA)

Colorado Athletic Trainers' Association (CATA)

American College of Sports Medicine (ACSM)