

Christopher Mark Hill Ph.D.

Assistant Professor of Biomechanics and Neuromotor Control
Department of Kinesiology and Physical Education
College of Education
Northern Illinois University

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ACADEMIC RECORD

Ph.D. Kinesiology Research Emphasis: Motor Behavior Academic Minor: Applied Statistics	University of Mississippi	2019
M.S. Kinesiology Research Emphasis: Neuromechanics	Mississippi State University	2016
B.S. Exercise Science Academic Minor: Psychology	University of Mississippi	2014

PROFESSIONAL EXPERIENCE

Assistant Professor Department of Kinesiology and Physical Education	Northern Illinois University	2019-Present
Doctoral Graduate Assistant Department of Health, Exercise Science, and Recreation Management	University of Mississippi	2016-2019
Masters Graduate Assistant Department of Kinesiology	Mississippi State University	2014-2016

RESEARCH INTERESTS

Motor learning • Reinforcement learning • Augmented feedback • Human gait • Human balance •
Movement disorders • Aging • Rehabilitation • Biosignal processing

TEACHING INTERESTS

Motor behavior • Neurophysiology • Biomechanics of human movement • Research methods •
Statistical methods • Biosignal processing

LABORATORY COMPETENCIES

Experimental Competencies

Surface Electroencephalography

Surface Electromyography

Motion Capture Testing

Neurocom Equitest Balance Testing

Force Plate Testing

Data Analysis Competencies

Computer Programming (R, Matlab, Python)

Frequentist Statistical Analysis (R, SPSS, JASP)

Bayesian Statistical Analysis (R, JASP)

Systematic Literature Review

Meta-Analysis (Comprehensive Meta-Analysis, JASP)

RESEARCH COLLABORATIONS

- Department of Health, Exercise Science, and Recreation Management, University of Mississippi
- Department of Biomedical Engineering, University of Mississippi
- Department of Kinesiology, Mississippi State University
- Department of Kinesiology and Health Promotion, Troy University
- Department of Health Sciences and Kinesiology, Georgia Southern University
- Department of Exercise Science, University of North Florida
- Department of Kinesiology, University of Southern Mississippi

RESEARCH SUPPORT

Extramural Funding

Not Funded

The Whitehall Foundation, Grand In Aid, PI

Project Title: *Neural correlates of prediction errors in aged locomotor learning*

Amount Requested: \$30,000.00 USD

Intramural Funding

Funded

Northern Illinois University, Research and Artistry Opportunity Grant 2020, PI

Project Title: *Neural correlates of prediction errors in aged locomotor learning*

Amount Awarded: \$15,000.00 USD

Northern Illinois University, Research and Artistry Opportunity Grant 2020, Co-PI

Project Title: *Examining the Underlying Long-Term Neuromotor Mechanisms Following Concussion*

Amount Awarded: \$14,948.00 USD

Northern Illinois University, College of Education Dean's Research Grant, PI

Project Title: *The Neural Correlates of Reinforcement Feedback During Motor Learning in Healthy Elderly*

Amount Awarded: \$2,500.00 USD

Northern Illinois University, College of Education Dean's Instructional Innovation Grant, Co-I

Project Title: *Implementing Creative Medical Investigations as a Tool to Enhance Critical Thinking in Athletic Training Students*

Amount Awarded: \$2,500.00 USD

TEACHING CURRICULUM

Northern Illinois University

KNPE 645- Application of Statistics to Research in Kinesiology and Physical Education (Spring 20; 21)

KNPE 635- Biomechanics (Fall 21)

KNPE 486- Principals of Motor Learning and Performance (Fall 21)

KNPE 314- Applied Kinesiology (Biomechanics) (Fall 19, 20; Spring 20; Summer 20, 21)

University of Mississippi

ES 446- Biomechanics of Human Movement (Fall 18, Summer 19)

ES 447- Biomechanics of Human Movement Laboratory (Spring 17, 18, 19; Fall 17, 18; Summer 19)

ES 394- Therapeutic Exercise and Fitness (Fall 17; Spring 19)

ES 338- Motor Learning and Control (Summer 17, 18)

PROFESSIONAL SERVICE

Ad Hoc Manuscript Reviewer

Adaptive Behavior	Footwear Science
Applied Sciences	International Journal of Human Factors and Ergonomics
BMC Military Medical Research	Neural Plasticity
BMC Sports Science, Medicine, and Rehabilitation	PeerJ
Electronics	PloS One
Experimental Gerontology	Technologies

Professional Organization

American Society of Biomechanics Annual Conference Abstract Reviewer (2020, 2021)
Mid-South Biomechanics Conference Session Moderator (2018)

Northern Illinois University

Popp Motor Behavior Laboratory Co-Director (2019-Present)
KNPE Doctoral Academic Program Committee (2019-Present)
KNPE Graduate Faculty (2019-Present)
University Graduate Colloquium Committee (2019-2020)
College of Education College Appeals Committee (2019-Present)
Graduate Student Advisor
Research Methodological Service Expert Consultant (2020-Present)
Presidential Interfaith Commission Member (2020-Present)
Senior Engineering Design Mentor (2020-Present)
Master's Thesis Chair

- Jack Littner (2020-2022, MS Exercise Physiology)

Thesis Committee Member

- Micheal Baumann (2020-2022, MS Exercise Physiology)

Independent Study Student Mentor

- Ken Riley (Fall 2020)
- Dong Jae Park (Fall 2020, 2021; Spring 2021)
- Juan Navarro (Summer 2021)
- Benjamin Connors (Summer 2021)

CURRENT PROFESSIONAL AFFILIATIONS

Society for Neuroscience
American Society of Biomechanics
Midwest American College of Sports Medicine
Midwest Society of Biomechanics
Midwest American Psychological Association

MEDIA APPEARANCES

Dekalb Public Library
STEM Interview Series
<http://dkpl.org/steam-interview-with-dr-chris-hill/>

RESEARCH PROFILES

Google Scholar: <https://scholar.google.com/citations?user=hOzmjG4AAAAJ&hl=en>

ResearchGate: https://www.researchgate.net/profile/Chris_Hill10

PEER-REVIEWED JOURNAL PUBLICATIONS

- Donahue PT, **Hill CM**, Wilson SJ, Williams CC, & Garner JC. Squat Jump Movement Onset Thresholds Influence on Kinetics and Kinematics. *International Journal of Kinesiology and Sport Science*. (In Press)
- Hill CM**, Waddell DE, Del Arco A. (2021) Movement Readiness Potential Amplitude and Visuomotor Retention is Diminished By Punishment Feedback. *Experimental Brain Research*. (In Press)
- Williams CC, Donahue PT, Wilson SJ, Mouser JG, **Hill CM**, Luginsland LA, Gdovin JG, Wade C, Garner JC. (2021) Examining Changes in Electromyography during Swing Performance in Various Strike Zone Locations of Collegiate Baseball Players. *Advances in Orthopedics and Sports Medicine* 2, 1-8.
- Chander H, Garner JC, Wade C, Wilson SJ, Turner AJ, Kodithuwakku SNK, **Hill CM**, DeBusk H, Simpson JD, Miller BM, Morris CM & Knight AC. (2021) An Analysis of Postural Control Strategies in Various Types of Footwear with Varying Workloads. *Footwear Science*. 13(2),181-189.
- Donahue PT, Wilson SJ, Williams CC. **Hill CM**, & Garner JC. (2021) Comparison of Squat and Countermovement Jumps in Recreationally Trained Males. *International Journal of Exercise Science*. 14(1), 462-472.
- Hill CM**, Stringer M, Waddell DE, Del Arco A. (2020) Punishment Feedback Impairs Memory And Changes Cortical Feedback-Related Potentials During Motor Learning. *Frontiers in Human Neuroscience*, 14(294), 1-14.
- Williams CC, Donahue PT, Wilson SJ, Mouser JG, **Hill CM**, Luginsland LA, Gdovin JG, Wade C, Garner JC. (2020) Examining Changes in Bat Swing Kinematics in Different Areas of the Strike Zone in Collegiate Baseball Players. *International Journal of Kinesiology and Sport Science* 8(2), 1-6.
- Donahue PT, Wilson SJ, Williams CC, **Hill CM**, Valiant MW, & Garner JC. (2020) Impact of Hydration Status on Jump Performance in Recreationally Trained Males. *International Journal of Exercise Science*, 13(4), 826 - 836.
- Hill, CM**, DeBusk H, Knight AC, Chander H, (2020) Military-Type Workload and Footwear Alter Lower Extremity Muscle Activity During Unilateral Static Balance: Implications for Tactical Athletic Footwear Design. *Sports* 8(58), 1-10.
- Hill CM**, Van Gemmert A, Fang Q, Hou L, Pan Z. (2019) Asymmetry in the Aging Brain: A Review of Cortical Activation Patterns and the Implications for Motor Function. *Laterality: Asymmetries of Body, Brain, and Cognition*. 4(25),1-17.
- Chander H., Arachchige S., **Hill CM**, Turner AJ., Deb S., Shojaei A., Hudson C, Knight AC, Carruth D. (2019) Virtual Reality [VR] Induced Visual Perturbations Impacts Postural Control System Behavior. *Behavioral Sciences* 9 (113), 1-12.
- Wilson SJ, Donahue PT, Williams CC, **Hill CM**, Simpson JD, Waddell DE, Loenneke JP, Chander H, Wade C, & Garner JC. (2019) Differences in Falls and Recovery from a Slip Based on an Individual's Lower Extremity Corrective Response. *International Journal of Kinesiology and Sport Science* 7(3) 34-40.
- Hill CM**, DeBusk H, Simpson JD, Garner, JC, Knight AC, Wade C Chander H. (2019) The Interaction of Cognitive Interference, Standing Surface, and Fatigue on Lower Extremity Muscle Activity. *Safety and Health at Work*. 10 (3), 321-326.

- Sullivan N., Schaffer H., **Hill CM**, Del Arco A. (2019). Time-Dependent Changes In Cognitive Flexibility Performance During Intermittent Social Stress: Relevance For Motivation And Reward-Seeking Behavior. *Brain and Behavioral Research*. 370 (16), 1-9.
- Donahue, PT, Beiser, E, Wilson, SJ, **Hill, CM**, Garner, JC. (2018) The relationship between measures of lower body power and baseball pitching velocity in professional baseball pitchers. *Journal of Trainology*. 7(10) 24-27.
- Hill CM**, Wilson SJ, Mouser JG, Chander, Donahue PT, Chander H., (2018). Motor Adaptation during Repeated Motor Control Testing: Attenuated Muscle Activation Without Changes in Response Latencies. *Journal of Electromyography and Kinesiology*. 41, 96-102.
- DeBusk H, Chander H, **Hill CM**, Knight AC. (2018) Impact of High Top Military Type Boots on Static and Dynamic Balance. *International Journal of Ergonomics*. 64, 51-58.
- Chander H, Knight AC, Garner JC, Wade C, Carruth D, DeBusk H & **Hill CM**. (2018) Impact Of Military Type Footwear And Workload On Heel Contact Dynamics During Slip Events. *International Journal of Ergonomics*, 66, 18-25.
- Hill CM**, Chander H, DeBusk H, Knight AC. (2017) Influence of Military Type Workload and Footwear on Muscle Exertion During Static Standing. *Footwear Science*. 9(3), 169-180.
- Simpson JD, DeBusk H, **Hill CM**, Knight AC, & Chander H. (2017) The Role of Military Footwear and Workload on Ground Reaction Forces during a Simulated Lateral Ankle Sprain Mechanism. *The Foot*. 34, 53-57.
- Wilson SJ, Williams CC, Gdovin JR, Eason JD, **Hill CM**, Luginland LL, Chander H, Wade C, Garner JC. (2017) The Influence of an Acute Bout of Whole Body Vibration on Human Postural Control Responses. *Journal of Motor Behavior*. 1-8.
- Kumarihamy M, León F, Pettaway S, Wilson L, Lambert JA, Wang M, **Hill CM**, McCurdy CR, EISOhly MA, Cutler SJ, Muhammad I. (2015) In Vitro Opioid Receptor Affinity And In Vivo Behavioral Studies Of *Nelumbo Nucifera* Flower. *Journal of Ethnopharmacology*, 174, 57-65

Manuscripts in Review

- Manning J, **Hill CM**, Zhang S, Sebastiao E. Differential Effects Of Dual-Task Modalities On Center Of Pressure Dynamics During Standing Balance In Healthy Young Adults. *Neuroscience Letters*
- Wood T, Grahovec N, Sanfilippo C, **Hill CM**, Gockel-Blessing E, Implementing a Creative Medical Investigation as a Tool to Enhance Critical Thinking in Athletic Training Students. *Athletic Training Education Journal*
- Wilson SJ, Donahue PT, Williams CC, **Hill CM**, Mutchler JA, Simpson JD, Chander H, Wade C, Bentley JP, Waddell DE, & Garner JC. Standing up Against Falls – An Examination of Standing Postural Control Measures Between Individuals who Fall and Recover Following an Induced Slip Perturbation. *International Journal of Industrial Ergonomics*.

PEER-REVIEWED CONFERENCE PROCEEDINGS

- Sebastiao, E., Siqueira, V.A.A.A., **Hill, CM.**, The association between walking speed to various physical functional and cognitive parameters in older adults. 26th Virtual Congress of the European College of Sport Science, 8 - 10 September 2021.
- Park DJ, Wood T, Wilson SJ, Chander H, **Hill CM.** Modulation of Spinal Stretch Reflexes in the Lower Extremity with Repeated Postural Perturbations. American Society Biomechanics: ASB 2021 Virtual 45th Meeting
- Valladao S, Nelson H, **Hill CM,** Andre T. Impact of tDCS on Esports Performance. ACSM 68th Annual Meeting, Vitural, June 1-5, 2021.
- Emroy K, Camic CL, Sebastiao E, **Hill CM,** Chomentowski P. Effects of In-Season Training Changes on Body Composition in Division I Collegiate Football Players. ACSM 68th Annual Meeting, Vitural, June 1-5, 2021.
- Stefan RR, Lutsch DJ, Jagim AR, **Hill CM,** Camic CL, Influence of A Multi-Ingredient Pre-Workout Supplement On Energy Expenditure, Oxygen Uptake, and Subjective Feelings of Fatigue During Low-Intensity Aerobic Exercise. ACSM 68th Annual Meeting, Vitural, June 1-5, 2021.
- Hill CM,** Waddell DE, Del Arco A. Punishment Feedback Diminishes Movement Readiness Potentials and Visuomotor Retention. Neural Control of Movement Society, April 22-24, 2021.
- Hill CM,** Waddell DE, Del Arco A. Punishment Feedback Diminishes Movement Readiness Potentials and Visuomotor Retention. 93rd Annual Meeting of the Midwestern Psychological Association, April 22-24, 2021.
- Camic CL, Cox B, **Hill CM,** Contributions Of Strength, Anthropometric, And Demographic Characteristics To Rock Climbing Performance. ACSM 67th Annual Meeting, San Francisco, CA, May 26-30, 2020.
- Chander H, Kodithuwakku Arachchige SNK, Turner AJ, **Hill CM,** Deb S, Shojaei A, Hudson C, Knight AC & Carruth DW. Is it me or the room moving? Recreating the classical "moving room" experiment with virtual reality. Virtual 44th Annual Meeting of the American Society of Biomechanics, August 4-7, 2020
- Wood TA, **Hill CM,** Park DJ, Hernandez ME, Sosnoff JJ, The Potential Implications of Co-Contraction Index of Neck Muscles on Traumatic Brain. Virtual 44th Annual Meeting American Society of Biomechanics Annual Meeting, August 4-7 2020.
- Hill CM,** Stringer M, Waddell DE, Del Arco A, Punishment, But Not Reward, Impairs Retention And Decreases Cortical Feedback Related Potentials During Motor Learning. Society for Neuroscience 2019, Chicago, IL, October 19-23.
- Wilson SJ, **Hill CM,** DeBusk H, Simpson JD, Miller BL, Knight AC, Garner JC, Wade C, & Chander H. The Interaction of Cognitive Interference, Standing Surface, and Fatigue on Lower Extremity Muscle Activity. 43rd American Society of Biomechanics (ASB) Annual Meeting / 27th Congress of the International Society of Biomechanics (ISB), Calgary, Canada. July 31 – August 4, 2019.
- Wilson SJ, Donahue PT, **Hill CM,** Williams CC, Simpson JD, Chander H, Wade C, Wilhoite SV, Neitz K, Haynes, A, Pascal J, Lewis K, Crawford A, Munkasy B, Li L, Garner JC, & Waddell DE. Novel

Evidence of Cortical Control in Severe Slip Responses. American College of Sports Medicine (ACSM) Annual Meeting, Orlando, FL. May 28 – June 1, 2019.

Crawford A, Donahue PT, **Hill CM**, Williams CC, Simpson JD, Chander H, Wade C, Wilhoite SV, Neitz K, Pascal J, Haynes A, Lewis K, Johnson A, Munkasy B, Li L, Garner JC, Waddell DE & Wilson SJ. Examination of the Influence of Lead Leg Recovery Mechanics on Slip Induced Outcomes. American College of Sports Medicine (ACSM) Annual Meeting, Orlando, FL. May 28 – June 1, 2019.

Haynes A, Donahue PT, **Hill CM**, Williams CC, Simpson JD, Chander H, Wade C, Johnson A, Wilsoite SV, Neitz K, Lewis K, Pascal J, Crawford, Munkasy B, Li L, Garner JC, Waddell DE, & Wilson SJ. The Effects of Postural Control Measures on Induced Slip Outcomes. American College of Sports Medicine (ACSM) Annual Meeting, Orlando, FL. May 28 – June 1, 2019.

Pascal J Donahue PT, **Hill CM**, Williams CC, Simpson JD, Chander H, Wade C, Lewis K, Wilhoite SV, Neitz K, Haynes A, Johnson A, Crawford A, Munkasy B, Li L, Garner JC, Waddell DE & Wilson SJ. Lead Leg Corrective Responses to Varying Slip Severity. American College of Sports Medicine (ACSM) Annual Meeting, Orlando, FL. May 28 – June 1, 2019.

Donahue PT, **Hill CM**, Walker K, Wilson SJ, Wade C., Variations in Kinematics During Lumbar Flexion/Extension Bending: A Comparison of Bending Techniques. Congress of Neurological Surgeons 2018 Annual Meeting, Houston, TX, USA. October 6-10, 2018.

Hill CM, Wilson SJ, Mouser JG, Donahue PT, Williams CC, Chander H. Repeated Motor Control Testing Decreases Co-Contraction Index in Healthy Young Adults. 42nd American Society of Biomechanics (ASB) Annual Meeting, Rochester, MN, USA. August 8-11 2018.

Wilson SJ, Garner JC, Donahue PT, Williams CC, **Hill CM**, Waddell DE. The Possible Role of Corticospinal Pathway Demand in Slip Recovery Responses. 50th Biomedical Engineering Society (BMES), Atlanta, GA, USA. October 17-20, 2018.

Wilson SJ, Donahue PT, Williams CC, **Hill CM**, Luginsland LA, Waddell DE, Chander H, Garner JC. Lead Leg Recovery Responses Between Individuals Who Fall and Recover After an Unexpected Slip. 42nd American Society of Biomechanics (ASB) Annual Meeting, Rochester, MN, USA. August 8-11 2018.

Garner JC, Donahue PT, Williams CC, **Hill CM**, Luginsland LA, Waddell DE, Chander H, Wilson SJ. Postural Control Measures Between Individuals Who Fall and Recover After an Unexpected Slip. 42nd American Society of Biomechanics (ASB) Annual Meeting, Rochester, MN, USA. August 8-11 2018.

Hill CM, DeBusk H, Wilson SJ, Gdovin JR, Williams CC, Luginsland LA, Knight AC, Chander H. Influence of Military Type Footwear and Workload on Co-Contraction Index in Unilateral Static Balance. Abstracted: American Society of Biomechanics (ASB) Annual Meeting, Boulder, CO. August 8-11 2017.

Wilson SJ, Chander H, Knight AC, Garner JC, Wade C, Luginsland L, **Hill CM**, Gdovin J, DeBusk H & Carruth D. Lower extremity kinematics in military footwear during slip events. *Proceedings of the American Society of Biomechanics Annual Conference*, Boulder CO, August 8-11, 2017.

Chander H, Knight AC, Garner JC, Wade C, DeBusk H, Wilson SJ, Gdovin JR, **Hill CM**, & Carruth D. Muscle Activity During Postural Stability Tasks: Role Of Military Footwear And Workload.

Abstracted: American Society of Biomechanics (ASB) Annual Meeting, Boulder, CO. August 8-11 2017.

Simpson JD, DeBusk H, **Hill CM**, Miller B, Knight AC, & Chander H. Effect of Military Footwear Type on Ankle Stability Following a Simulate Military Workload. Abstracted: American Society of Biomechanics (ASB) Annual Meeting, Boulder, CO. August 8-11 2017.

Luginsland LA, Chander H, Wade C, Garner JC, Eason JD, Wilson SJ, Gdovin JR, **Hill CM**, Knight AC, Carruth D. Influence of Occupational Footwear on Muscle Activity during a Simulated Extended Time-Duration. American Society of Biomechanics (ASB) Annual Meeting, Boulder, CO. August 8-11 2017.

Hill CM, DeBusk H, Stewart T, Miller B, Simpson JD, Knight AC, & Chander H. Impact of Military Type Footwear and Workload on Co-Contraction Index in Static Balance. Abstracted: *Proceedings of the American Society of Biomechanics* Annual Meeting, Raleigh, NC, Aug 2-5, 2016

DeBusk H, Chander H, **Hill CM**, Simpson JD, Miller BL. Impact of Cognitive Interference, Standing Surface and Fatigue on Balance. *Proceedings of the American Society of Biomechanics*, Raleigh, NC Aug 2-5 2016

Hill CM, Chander H, Morris CE, Wilson SJ, Knight AC, Holmes ME, DeBusk H, Wade C, & Garner JC. Impact of Low Intensity Workload on Muscle Exertion in Alternative Footwear. ACSM 62nd Annual Meeting, San Diego, CA, May 26-30, 2015.

DeBusk H, Chander H, Morris CE, Wilson SJ, Knight AC, Holmes ME, **Hill CM**, Wade C & Garner JC. The Effect of Commonly Used Alternative Footwear on Balance. ACSM 62nd Annual Meeting, San Diego, CA, May 26-30, 2015.

PEER-REVIEWED CONFERENCE PRESENTATIONS

Donahue PT, Wilson SJ, Williams CC, **Hill CM**, & Garner JC. Comparison of Squat and Countermovement Jump Mean Muscle Activity. Southeast American College of Sports Medicine (SEACSM) Annual Conference, February 2021.

Hill CM, Stringer M, Waddell DE, Del Arco A, Punishment, But Not Reward, Impairs Retention And Decreases Cortical Feedback Related Potentials During Motor Learning. Midwest Chapter of the American College of Sports Medicine (MWACSM) Annual Meeting, Chicago, IL November 15-17.

Cox B., **Hill CM**., Camic CL., Contributions Of Strength, Anthropometric, And Demographic Characteristics To Rock Climbing Performance. Midwest Chapter of the American College of Sports Medicine (MWACSM) Annual Meeting, Chicago, IL November 15-17.

Lutsch DJ., **Hill CM**., Camic CL. Effects Of An Eccentric-Induced Fatigue Protocol On Muscle Action Specific Peak Torque. Midwest Chapter of the American College of Sports Medicine (MWACSM) Annual Meeting, Chicago, IL November 15-17.

Crawford, A, Donahue, PT, **Hill, CM**, Williams, CC, Simpson JD, Siekirk NJ, Mutchler, J, Johnson, AC, McLain, S, Munkasy, BA, Waddell, DE, Garner, JC, & Wilson SJ. Hip and knee muscle activity during standing balance are not associated with slip severity. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Jacksonville Florida. February 13-15 2020.

- Johnson, AC, Donahue, PT, **Hill, CM**, Williams, CC, Simpson JD, Siekirk NJ, Mutchler, J, McLain, S, Crawford, A, Munkasy, BA, Waddell, DE, Garner, JC, & Wilson SJ. Neuromuscular Control at the hip and knee during balance is not associated with slip detection. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Jacksonville Florida. February 13-15 2020.
- McLain S, Donahue, PT, **Hill, CM**, Williams, CC, Simpson JD, Siekirk NJ, Mutchler, J, Johnson AC, Crawford, A, Munkasy, BA, Waddell, DE, Garner, JC, & Wilson SJ. Standing Balance Muscle Activation at the ankle joint is not associated with slip severity. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Jacksonville Florida. February 13-15 2020.
- Wilson SJ, Donahue, PT, **Hill, CM**, Williams, CC, Simpson JD, Siekirk NJ, Mutchler, J, Johnson AC, McLain S, Crawford, A, Munkasy, BA, Waddell, DE, & Garner, JC. Standing balance muscle activation at the ankle joint is not associated with slip outcomes. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Jacksonville Florida. February 13-15 2020.
- Hill CM**, Wilson SJ, Mouser JG, Williams CC, Luginsland LA, Donahue PT, Chander H. Impact Of Repeated Balance Perturbations On Lower Extremity Mean Muscle Activity. Mid-south Biomechanics Conference, Memphis TN. February 22-23 2018. (ORAL)
- Hill CM**, Wilson SJ, Mouser JG, Williams CC, Luginsland LA, Donahue PT, Chander H. Impact Of Repeated Balance Perturbations On Lower Extremity Mean Muscle Activity. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, TN. February 15-17 2018. (ORAL)
- Wilson SJ, **Hill CM**, Mouser JG, Williams CC, Luginsland LA, Donahue PT, Garner JC, Chander H. Can Postural Responses Be Learned? Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, TN. February 15-17 2018.
- Garner JC, **Hill CM**, Wilson SJ, Mouser JG, Williams CC, Luginsland LA, Donahue PT, Chander H. Influence of Repeated Motor Control Tests on Proximal Lower Extremity Musculature Activation. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, TN. February 15-17 2018.
- Donahue PT, Wilson SJ, Williams CC, **Hill CM**, Luginsland LA, and Garner JC. Positional Differences In Peak Power During Countermovement Vertical Jump In Professional Baseball Pitchers. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, TN. February 15-17 2018.
- Luginsland LA, Williams CC, Gdovin JR, Wilson SJ, Donahue PT, **Hill CM**, Eason JD, Yarbrough AL, Wade C, Garner JC. Changes in Bat Angle at Maximal Velocity in Collegiate Softball Players. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, TN. February 15-17 2018.
- Turner AJ, **Hill CM**, DeBusk H, Chander H, Knight AC, Wilson SJ, Williams CC & Luginsland LL. Impact of military type footwear and workload on percent muscle activation in unilateral static balance. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, TN. February 15-17 2018.
- Williams, CC; Gdovin JR; Wilson SJ; **Hill CM**; Donahue, PT; Luginsland LA; Eason JD; Yarbrough AL; Wade C; Garner JC. Examining changes in bat angle at ball contact in collegiate softball players over a fall

softball season. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Chattanooga, Tennessee February 15-17th

Hill CM, DeBusk H, Stewart T, Simpson JD, Miller BL, Knight AC, Chander H. Influence of Military type footwear and workload on percent muscle activation in static balance. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18, 2017.

Luginsland LA, Wilson SJ, Gdovin JR, Williams CC, Eason JD, Hoke E, **Hill CM**, Donahue PT, Chander H, Wade C, Garner JC. The acute influence of golf specific footwear on balance equilibrium scores. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18, 2017.

Hoke EL, Wilson SJ, Gdovin JR, Williams CC, Eason JD, Luginsland LA, **Hill CM**, Donahue PT, Chander H, Wade C, Garner JC. Acute effects of golf specific footwear on bilateral balance. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18, 2017.

Eason JD, Wilson SJ, Gdovin JR, Williams CC, Hoke EL, Luginsland LA, **Hill CM**, Donahue PT, Chander H, Wade C, Garner JC. The effects of golf shoe type on balance equilibrium scores. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18, 2017.

Williams CC, Wilson SJ, Gdovin JR, Eason JD, Hoke EL, Luginsland LA, **Hill CM**, Donahue PT, Davis RE, Chander H, Wade C, Garner JC. The influence of golf specific footwear on whole body reaction times. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18 2017.

Gdovin JR, Wilson SJ, Williams CC, Eason JD, Hoke EL, Luginsland LA, **Hill CM**, Donahue PT, Davis RE, Chander H, Wade C, Garner JC. The acute effects of golf specific footwear on reaction time latencies. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18 2017.

Turner A, Debusk H, Lowell R, **Hill CM**, Miller BL, Simpson JD, Knight AC, Chander H. Effects of Military Type Footwear and Workload on Unilateral Static Balance. Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, Greenville, SC. February 16-18 2017.

Hill CM, DeBusk H, Stewart T, Simpson JD, Miller BL, Knight AC, Chander H. Impact Of Military Type Footwear And Workload On Muscle Activity In Static Balance. SEASCAM Annual Meeting, Greenville, SC February 18-20, 2016.

Simpson JD, **Hill CM**, DeBusk H, Stewart T, Miller BL, Knight AC, & Chander H. Influence Of Military Boot Types And Physiological Workload On Lower Extremity Muscle Activation. SEASCAM Annual Meeting, Greenville, SC February 18-20, 2016.

DeBusk H, **Hill CM**, Stewart T, Miller BL, Simpson JD, Knight AC, & Chander H. Effects Of Military Type Footwear And Workload On Static Balance, SEASCAM Annual Meeting, Greenville, SC February 18-20, 2016.

Miller BL, DeBusk H, **Hill CM**, Stewart T, Simpson JD, Knight AC, Chander H. Impact Of Military Boot Type And Physical Work Load On Dynamic Balance, SEASCM Annual Meeting, Greenville, SC February 18-20, 2016.

Chander H , Garner JC, Wade C, Knight AC, DeBusk H, & **Hill CM**. Lower Extermity Muscle Activity in Alternative Footwear During Slip Events: A Preliminary Analysis. SEASCM Annual Meeting, Greenville, SC February 18-20, 2016.

Hill CM, Chander H, Morris CE, Wilson SJ, Knight AC, Holmes ME, DeBusk H, Wade C, & Garner JC. Impact of Low Intensity Workload on Muscle Exertion in Alternative Footwear. SEACSM Annual Meeting, Jacksonville, FL, February 12-14, 2015.

DeBusk H, Chander H, Morris CE, Wilson SJ, Knight AC, Holmes ME, **Hill CM**, Wade C & Garner JC. The Effect of Commonly Used Alternative Footwear on Balance. SEACSM Annual Meeting, Jacksonville, FL, February 12-14, 2015.