

Christopher Mark Hill, Ph.D.

Assistant Professor of Motor Behavior
Director of the Motor Neuroscience Laboratory
School of Kinesiology
Louisiana State 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 School of Kinesiology	Louisiana State University	2024-Present
Assistant Professor Department of Kinesiology and Physical Education	Northern Illinois University	2019-2024
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 • Aging • Motivation • Augmented feedback • Visuomotor Adaptation • Human gait • Movement disorders • Rehabilitation • Biosignal processing • Sense of Agency

TEACHING INTERESTS

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

LABORATORY COMPETENCIES

Experimental Competencies

Surface Electroencephalography

Surface Electromyography

Transcranial Magnetic Stimulation

Transcranial Direct Stimulation

Force Platform Testing

Data Analysis Competencies

Computer Programing (R, Matlab)

Frequentist Statistical Analysis (R, SPSS, JASP)

Bayesian Statistical Analysis (R, JASP)

Systematic Literature Review

Meta-Analysis (Comprehensive Meta-Analysis, JASP)

RESEARCH SUPPORT

Extramural FundingIn-Prep

National Science Foundation, NSF 25-543 Division of Information & Intelligent Systems Expected 2027

Role: Co-PI

Project Title: *Collaborative Research: HCC: Medium: A Hierarchical Framework For Coordinating Multi-group Operations in High-risk Environments*

Collaborative Amount Request: \$281,282 USD

Total: \$1,000,000.00 USD

National Institutes of Health, R01 NMH

Expected 2026

Role: PI

Project Title: *Cerebellar-Cortical dynamics of cognitive-motor intergration in anxiety disorders*

Amount Requested: \$795,897.00 USD

Funded

National Institutes of Health, R15 NCMRR (PI-Declined)

2023

Role: Co-I

Project Title: *Step it up! A Pilot Randomized Controlled Trial of a Home-based Square-Stepping Exercise Program in Older Adults with Multiple Sclerosis*

Amount Funded: \$278,420.00 USD

Not Funded (N=8, \$2,803,677.00 as PI/Co-I)

Brain and Behavior Research Foundation

2026

Role: PI

Project Title: *Cerebellar-Cortical dynamics of motor inhibition in anxiety disorders*

Amount Requested: \$69,897.00 USD

National Institutes of Health, R21 NMH

2025

Role: PI

Project Title: *Cortical dynamics of cognitive-motor integration in anxiety disorders*

Amount Requested: \$250,000.00 USD

National Science Foundation, NSF 24-589 Division of Information & Intelligent Systems

2024

Role: Co-PI

Project Title: *Collaborative Research: HCC: Medium: Transferring In-person Social and Perceptual Cues to Remote Collaborative Tasks*

Collaborative Amount Request: \$499,436 USD

Total: \$1,194,418.00 USD

National Science Foundation, NSF 23-562 Division of Information & Intelligent Systems

2023

Role: Co-I

Project Title: *A Systematic Requirements Engineering Approach for Semantic- and Context-related Risk Management in Perception of AI-enabled Software Systems*

Amount Request: \$704,853.00 USD

National Institutes of Health, R15 NCMRR

2023

Role: PI

Project Title: *Neurophysiological and Pharmacological Markers of Performance Monitoring During Locomotor Learning*

Amount Requested: \$312,985 USD

National Institutes of Health, R03 NCMRR

2022

Role: PI

Project Title: *Pharmaceutical and Neural Correlates of Performance Monitoring during Locomotor Learning*

Amount Requested: \$270,671 USD

National Institutes of Health, R15 NCMRR (Impact Score: 34) 2022

Role: Co-I

Project Title: *Step it up! A Pilot Randomized Controlled Trial of a Home-based Square-Stepping Exercise Program in Older Adults with Multiple Sclerosis*

Amount Requested: \$225,853.00 USD

Intramural Funding

In-Review

Funded (N=9, \$71,346 as PI/Co-I)

Louisiana State University, Directors Research Award 2025

Role: PI

Project Title: Cerebellar-cortical connectivity during motor adaptation in generalized anxiety

Amount Awarded: \$7,500.00 USD

Louisiana State University, CHSE Faculty Research Grant 2024

Role: PI

Project Title: Cortical dynamics of motor inhibition in generalized anxiety disorder

Amount Awarded: \$8,000.00 USD

Northern Illinois University, Open Access Publishing Fund 2023

Amount Awarded: \$1,900.00 USD

Northern Illinois University, Student Engagement Fund 2023

Role: PI

Project Title: *Neural Correlates of Reinforcement Feedback in Aged Locomotor Learning*

Amount Awarded: \$1,500.00 USD

Northern Illinois University, College of Education Dean's Research Grant 2022

Role: Co-I

Project Title: *Kinematics and Neuromuscular Activation During the Wheeled Motorized Sled-Push (XPO Sled Trainer) Exercise: An Investigation in Older Adults*

Amount Awarded: \$2,500.00 USD

Northern Illinois University, Research and Artistry Opportunity Grant 2022

Role: Co-PI

Project Title: *The Effects of COVID-19 on Electrophysiological Measures of Auditory Working Memory*

Amount Awarded: \$14,998.00 USD

Northern Illinois University, Research and Artistry Opportunity Grant 2021

Role: PI

Project Title: *Neural Correlates of Prediction Errors in Locomotor Learning*

Amount Awarded: \$15,000.00 USD

Northern Illinois University, Research and Artistry Opportunity Grant (Re-submission) 2020

Role: 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 2019

Role: 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 2019

Role: 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

Not Funded N=2, \$19,290 as PI/Co-I)

Louisiana State University, Big Idea Grant

2025

Ethics of AI Skill Acquisition Research Collaborative

Role: Co-PI

Amount Requested: \$25,000 USD

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

2021

Role: PI

The Effects of COVID-19 on Cognitive Processing and Auditory Electrophysiological Measures

Amount Requested: \$4,290.00 USD

Northern Illinois University, Research and Artistry Opportunity Grant

2019

Role: Co-PI

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

Amount Requested: \$15,000.00 USD

RESEARCH MENTORSHIP

Major Professor

Louisiana State University

- Leo Barzi, PhD Motor Behavior

2024-Present

Northern Illinois University

- Pam Durr, Co-Chair, PhD Health Sciences
- Leo Barzi, MS Kinesiology
- Jack Littner, MS Kinesiology

2023-2025

2023-2024

2020-2022

Graduate Committee

Louisiana State University

- Kelly Rodriguez, PhD Motor Behavioral

2025-Present

Northern Illinois University

- Michael Baumann, MS Kinesiology
- Benjamin Connors, MS Kinesiology

2020-2022

2020-2022

Graduate Independent Study Mentor

- Nathan Ross
- Holly Flentge
- Juan Navarro
- Benjamin Connors
- Ken Riley
- Dong Jae Park

Spring 2023

Spring 2022

Summer 2021

Summer 2021

Fall 2020

2020-2022

Undergraduate Honors Student Mentor

- Leea Perry
 - 2022 Outstanding Honors Capstone Winner

2021-2022

Undergraduate Research Mentor

Louisiana State University

- Ashleigh Phillips (Bioengineering)
- Leah Charles (Kinesiology)
- Kaylie Grimm (Biology)
- Olivia Perry (Kinesiology)
- Miranda Chodzko (Kinesiology)

2025-Present

2025-Present

2024-Present

2024-2026

2024-2025

Northern Illinois University

- Numa Samnani 2023-2024
- Heni Halwas 2023-2024
- Leo Barzi 2022-2023
- Cameron Gericke 2022-2023
- Joshua Bolander 2020
- School of Engineering Senior Design Mentor
 - Nick Diaz, Brandon Silva, Carlos Cano 2021-2022
 - Nathan Tom, Nathan Moser, Haley Hoppe 2020-2021

External Dissertation Committee

- Benjamin Miller-Mills, PhD, University of Queensland 2022-2023

TEACHING CURRICULUM

Certification: Association of College and University Educators Distinguished Teaching Scholars

Louisiana State University

KIN 7510- Motor Learning

KIN 4512- Lifespan Motor Development

KIN 3513- Introduction to Motor Learning

Northern Illinois University

KNPE 645- Application of Statistics to Research in Kinesiology and Physical Education

KNPE 635- Biomechanics

KNPE 486- Principals of Motor Learning and Performance

KNPE 314- Applied Biomechanics

PROFESSIONAL SERVICE

Ad-Hoc Manuscript Reviewer

Adaptive Behavior	International Journal of Human Factors and Ergonomics
Applied Sciences	Imaging Neuroscience
Behavioral Brain Research	Journal of Motor Behavior
BMC Military Medical Research	Neuropsychologia
BMC Sports Science, Medicine, and Rehabilitation	Neural Plasticity
Electronics	Neuroscience Letters
Experimental Gerontology	PeerJ
Footwear Science	PloS One
Frontiers in Aging Neuroscience	PloS One Computational Biology
Frontiers in Behavioral Neuroscience	Physiotherapy Theory and Practice
Frontiers in Human Neuroscience	Theoretical Issues in Ergonomics Science
Frontiers in Psychology	Technologies
Gait and Posture	Visions

Ad-Hoc Grant Reviewer

National Science Foundation 2025-2026

- Cognitive Neuroscience

National Institutes of Health 2022-2023

- Motor Function, Speech, and Rehabilitation Study Section

Editorial Responsibilities

Frontiers of Behavioral Neuroscience

- **Guest Topic Editor** – Reinforcement Feedback in Motor Learning 2023-2025
- **Review Editor** - Motivation and Reward section 2022-Present

Professional Organizations

Baton Rouge Society for Neuroscience	2026-Present
• Leadership Council • Organizes annual conference	
Chicago Society for Neuroscience	2021-2024
• Leadership Council • Organized annual conference • Coordinated undergraduate poster competition	
North American Congress of Biomechanics	2022
• Abstract Reviewer	
American Society of Biomechanics Annual Conference	2019-2023
• Abstract Reviewer	
Midwest ACSM Conference	2019-2023
• Session Moderator • Abstract Reviewer	
Mid-South Biomechanics Conference	2018
• Session Moderator	
Louisiana State University	
School of Kinesiology	
• Graduate Scholarship Committee • Search Committee- Assistant Professor of Biotechnology	2024 2024
Northern Illinois University	
Department of Kinesiology and Physical Education	
• Co-Director of the Motor Behavior Laboratory • KNPE Doctoral Academic Program Committee • KNPE Graduate Faculty ◦ Graduate Admission Reviewer • Graduate Student Advisor	2019-2024 2019-2024 2019-2024 2019-2024 2019-2024
College of Education	
• College Appeals Committee • Graduate Council • Research Committee ◦ Vice Chair	2019-2024 2023-2024 2023-2024
University	
• Presidential Interfaith Commission Member • University Graduate Colloquium Committee • Campus Parking Committee • Parking Appeals Committee • Research Methodological Service Expert Consultant • Graduate Council	2020-2021 2019-2022 2022-2024 2022-2024 2020-2024 2023-2024

PROFESSIONAL AFFILIATIONS

National / International

Society for the Neural Control of Movement

Society for Neuroscience

American Society of Biomechanics

American Psychological Association

Regional

Southeast American College of Sports Medicine

Baton Rouge Society for Neuroscience

South Central Society of Biomechanics

Southwestern Psychological Association

INVITED PRESENTATIONS

November 2026	<i>Anxiety in Action: Real-time cortical dynamics of cognitive-motor integration in anxiety disorders.</i> Department of Cell Biology and Anatomy LSU Health Science Center New Orleans.
November 2026	<i>Anxiety in Action: Real-time cortical dynamics of cognitive-motor integration in anxiety disorders.</i> School of Kinesiology. Auburn University.
August 2026	<i>Louisiana: A State of Anxiety.</i> Moving Louisiana Forward: How LSU Kinesiology Advances Health Through Research, Workforce Development and Innovation Leadership Louisiana Health Fellows Baton Rouge Session
June 2026	<i>Anxiety Disorders: An Under-treated Predictor of Neurological Disease.</i> School of Social Work, Louisiana State University. Continuing Education Credits
November 2025	<i>One Size Does Not Fit All: Teaching in Higher Education.</i> Iowa State University. Department of Kinesiology. Graduate Student Symposia
April 2025	<i>Parkinson's Disease: Emerging Therapies and Interventions.</i> University of Mississippi Medical Center. Continuing Education Credits
October 2025	<i>By the Carrot or Stick?: Neural and Behavioral Correlates of Reinforcement Feedback During Motor Learning and Agency.</i> Synapse: LSU Undergraduate Neuroscience Club, Louisiana State University
October 2022	<i>Reward and Punishment: Neural and Behavioral Correlates of Reinforcement Feedback during Motor Learning.</i> Brain Plasticity Laboratory, Department of Physical Therapy, University of Illinois Chicago
October 2019	<i>By the Carrot or Stick?: Reinforcement Feedback During Visuomotor Adaptation</i> Neuroscience Brown Bag, Department of Psychology, Northern Illinois University

ACTIVE COLLABORATIONS

External Collaborations:

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| • University of Mississippi | • Georgia Southern University |
| • University of Mississippi Medical Center | • University of Illinois Urbana-Champaign |
| • LSU Health Science Center New Orleans | • Northern Illinois University |
| • Rice University | • Northwestern College |

PEER-REVIEWED JOURNAL PUBLICATIONS

In-Review

Indicates: † student mentored, * corresponding author

- * Singh R, Hill CM. Multifaceted nature of supervised feedback and reinforcement on young and elderly results in different locomotion adaptation strategies. *Frontiers in Cognitive Neuroscience*

Wood T, Casas R, Hill CM, Grahovec N, Wilson M. *Altered Neuromuscular Activation During Prolonged Balance Tasks in Individuals with Concussion History.* *Journal of Electromyography and Kinesiology.*

Published (N=38)

Wilson M, Hill CM, Thorton D, Stanley NS (2026). Behavioral and electrophysiological evidence of residual cognitive impairment in post-covid brain fog: a visual P300 study. *Brain and Cognition*, 198, 106474.

- * † Barzi L, Wilson M, Hill CM (2026). Anxiety Disorders Alter Cognitive-Motor Integration During Visuomotor Adaptation and Retention. *Experimental Brain Research*, 244 (6), 113.

de Leo, MF, Camic CL, Herring MJ, Hill CM (2025). Validity and Inter-Device reliability of the OTBeat Burn™ monitor to estimate heart rate during exercise. *Sports*, 13(2), 49.

- ***Hill CM**, Samnani N, Barzi L, Wilson, M. (2025). Punishing temporal judgement boosts sense of agency and modulates its underlying neural correlates. *Consciousness and Cognition*, 133, 103905.
- Connors BR, Camic CL, Jagim AR, **Hill CM**, Sebastião E, Chomentowski PJ, de Leon MF (2025). Acute Effects of a Multi-Ingredient Preworkout Supplement on Peak Torque and Muscle Excitation During an Isokinetic Fatigue Protocol. *Sports*, 13(11), 404.
- Quinlivan T, Kane K, **Hill CM**, Ryu D. (2025). Comparison of sequential data analysis and functional data analysis for locomotor adaptation. *PLoS One*, 20(8), e0329940.
- Hill CM**, Koppelmans, V, Manto, M. (2025). Reinforcement feedback in motor learning: neural underpinnings of skill refinement. *Frontiers in Behavioral Neuroscience*, 19, 1589738.
- ***Hill CM**, Sebastiao E, Barzi L, Wilson M, Wood T (2024) Reinforcement feedback impairs locomotor adaptation and retention. *Frontiers of Behavioral Neuroscience*. 18:1388495
- Henert S, Navarro J, Connors B, **Hill CM**. (2024) The Comparative Effects of Exercise and Neurostimulation on College Students' Emotional Well-Being. *European Journal of Physical Education and Sport Science*. 11(1).
- Sebastiao E, Siqueira V, **Hill CM**, Zhang S. (2024) The Effect of Lower Back and Lower-Extremity Kinesiology Taping on Static Balance and Physical Functioning Performance in People with Multiple Sclerosis: A Pilot Study. *Journal of Bodywork & Movement Therapies*. 37:271-277
- Sebastiao E, Baumann M, Siqueira V, Chomentowski P, Camic CL, **Hill CM**, Petruzzello SJ., (2024) An Investigation of the Sled-Push Exercise in Apparently Healthy Older Adults: A Mixed-Repeated Measures Study. *Journal of Aging and Physical Activity* 32(3):416-427
- Wahl-Alexander Z, Jacobs J, **Hill CM**, Bennett G (2024), Examining Body Mass Index and Health-Related Fitness Marker Progression of Incarcerated Minority Youth Engaged in a Sport-Leadership Program, *International Journal of Prison Health* 20(2):200-211
- † Lowell R, Conner NO, Derby H, **Hill CM**, Gillen ZM, Burch R, Knight AC, Reneker JC, Chander H (2023). Quick on Your Feet: Modifying the Star Excursion Balance Test with a Cognitive Motor Response Time Task. *International Journal of Environmental Research and Public Health*.
- Wood TA, Grahovec NE, Sanfilippo C, **Hill CM**, Gockel-Blessing EA (2023). A Creative Medical Investigation: Bridging the Soft Skill Gap. *International Journal of Kinesiology in Higher Education*, 1-12.
- Chander H, Freeman HR, **Hill CM**, Hudson C, Kodithuwakku SNK, Turner AJ, Jones JA, Knight AC (2022). The walls are closing in: Postural responses to a virtual reality claustrophobic simulation. *Clinical and Translational Neuroscience*, 6,1-10.
- †* Stefan RR, Camic CL, Miles GF, Kovacs AJ, Jagim, AR, **Hill CM** (2022). Relative Contributions of Handgrip and Individual Finger Strength on Climbing Performance in a Bouldering Competition. *International Journal of Sports Physiology and Performance*, 1(aop), 1-6.
- Donahue PT, **Hill CM**, Wilson SJ, Williams CC, Garner JC (2021). Squat Jump Movement Onset Thresholds Influence on Kinetics and Kinematics. *International Journal of Kinesiology and Sports Science*, 9(3), 1-7.
- * **Hill CM**, Waddell DE, Del Arco A (2021) Movement Readiness Potential Amplitude and Visuomotor Retention is Diminished By Punishment Feedback. *Experimental Brain Research*, 239(11), 3243-3254

- 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, 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**, Luginsland 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, ElSohly 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

BOOK CHAPTERS

In-Review

- Hill CM**, Chander H. Geriatric Population. In: Neuromechanics of Postural Control and Locomotion. *Human Kinetics*.

Published

- Sebastião E, Siqueira V AAA, Santinelli FB, **Hill CM**, Larrad AR (2025). Mobility and Cognitive Function in Older Adults with Multiple Sclerosis: Physical Activity and Exercise Training as Rehabilitation Therapy. In *Locomotion and Posture in Older Adults: The Role of Aging and Movement Disorders* (pp. 417-437). Cham: Springer Nature Switzerland.
- Tubelo B, **Hill CM** (2024). Parkinson's Disease and High-Intensity Interval Training. In: Singh, R.E. (eds) *Motion Analysis of Biological Systems*. Springer, Cham.
- Sebastiao E, **Hill CM**, Santinelli FB, Barbieri FA. (2022) AVALIAÇÃO DA MOBILIDADE EM PESSOAS COM ESCLEROSE MÚLTIPLA. *Experiencias Em Testes E Medidas Do Exercio Fisico No Context Da Asude*. (pp27-39). Bookerfield Editora

PEER-REVIEWED CONFERENCE PROCEEDINGS

- L Huang, Staehling M, Achord B, **Hill CM**, Harrison DA, Waddell DA, Del Arco A. Neural signatures of perceived control: Decreased alpha band power in response to cues that predict the level of control during a decision-making task. Society for Neuroscience 2026. Washington DC.
- † Barzi L, Wilson M, **Hill CM**. Anxiety Disorders Alter Cognitive-Motor Integration During Visuomotor Adaptation and Retention. Neural Control of Movement Society Annual Meeting, Kobe, Japan 2026.

- Gallos C, Wallace D, Yoder R, **Hill CM**, Blakenship P., Man(ual) vs Machine (Learning): Using Machine Based Networks to Examine Spatial Kinematic Behaviors. Midwest American Psychological Association Annual Meeting 2025, Chiciago IL.
- de Leon MF, Herring MJ, Wunner EG, **Hill CM**, Camic CL. Accuracy And Reliability Of A Commercial Group Fitness Heart Rate Monitor Across Exercise Intensity: ACSM Annual Meeting, Denver 2025.
- Singh RE, **Hill CM**, Iqbal K. Stochastic algorithm-based estimation of slow and fast processes of sensorimotor adaptation during locomotion. *IEEE International Conference on Systems, Man, and Cybernetics (SMC)* (pp. 7639-7644).
- † Barzi L, **Hill CM**, Wilson M. Punishing temporal judgement boosts sense of agency and modulates its underlying neural correlates. North American Society for the Psychology of Sport and Physical Activity. Lake Tahoe, CA 2025.
- Hill CM**, Barzi L, Wilson M. Punishing temporal judgement boosts sense of agency and modulates its underlying neural correlates. Neural Control of Movement Society Annual Meeting, Panama City, Panama 2025.
- Herring M, Connors B, Kowal R, Chomentowski P, Sebastiao E, **Hill CM**, Camic CL. Multi-Ingredient Pre-Workout Supplementation Does Not Influence Muscle Activation Following a Fatiguing Isokinetic Protocol. ACSM Annual Meeting, Boston, MA, 2024
- Camic CL, **Hill CM**. Neuromuscular Responses Of Running To Exhaustion At The Velocity Associated With Maximal Oxygen Uptake. ACSM Annual Meeting, Boston, MA, 2024
- Hill CM**, Barzi L, Wood T., Sebastião E., Wilson M. Reinforcement Differently Changes Locomotor Learning and Retention In Older Adults. Neural Control of Movement Society Annual Meeting, Dubrovnik, Croatia, 2024.
- † Barzi L., Atkins S., Wood T., Sebastião E., Wilson M., **Hill CM**. Reinforcement and Sensory Feedback Differently Change Locomotor Learning and Memory. 94th Annual Meeting of the Midwestern Psychological Association, April 22-24, 2023.
- Sebastião E, Baumann M, Herring M, Hurd M, Estrada B, Salinas R, Craven E, **Hill CM**, Camic C, Chomentowski P. Physiological and Psychological Responses To A Progressive Acute Session Of Sled-Push Exercise Among Older Adults: Preliminary Findings. European College of Sport Science Congress 2022.
- Wilson M, **Hill CM**. A Longitudinal Study of the Effects of Subconcussive Impacts on Electrophysiological Measures Of Auditory Working Memory In Contact And Collison Sports Athletes. Society for Psychophysioligcal Research, Vancouver, BC, Canada, 2022.
- Hill CM**, Chandler SJ, McCrory A, Freeny S, Trigg SK, Burch RF, Knight AC, Chander H. Quick On Your Feet: Revamping The Star Excursion Balance Test With A Response Time Task. North American Congress of Biomechanics Meeting, Ottawa, ON, Canada, 2022.
- Henert S, **Hill CM**, Connors B, Navarro J. The Comparative Effects of Exercise and Transdermal Trigeminal Nerve Stimulation On Psychological Feeling States. 2022 North American Society for the Psychology of Sport & Physical Activity Annual Conference, Waikoloa, HI 2022.

- † Kowal R, Chomentowski P, **Hill CM**. Physical Activity History and Severity of Vasomotor Symptoms in Menopausal Females. ACSM 69th Annual Meeting, San Diego, CA, May 31st-June 4th, 2022.
- Camic CL, Moxley EA, **Hill CM**. Influence of Concentric Fatigue On Muscle Action Specific Peak Torque Production. ACSM 69th Annual Meeting, San Diego, CA, May 31st-June 4th, 2022.
- Hill CM**, Stringer M, Waddell DE, Del Arco A, Reinforcement Feedback Changes Beta And Gamma Neural Oscillations During Visuomotor Learning. Society for Neuroscience 2021, Chicago, IL, November 13-16.
- Sebastiao E, Siqueira VAA, **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

- † Perry O, Grimm K, Charles L, Barzi L, **Hill CM**. Anxiety Disorders Do Not Modulates Performance Monitoring During Visuomotor Learning. Baton Rouge Society for Neuroscience Annual Meeting 2026.
- † Grimm K, Perry O, Charles L, Barzi L, **Hill CM**. Anxiety Disorders Increases Beta Power During Visuomotor Feedback Processing. Baton Rouge Society for Neuroscience Annual Meeting 2026.
- † Charles L, Grimm K, Perry O, Barzi L, **Hill CM**. Punishing temporal judgement boosts sense of agency and modulates its underlying neural correlates. Baton Rouge Society for Neuroscience Annual Meeting 2026.
- † Barzi L, **Hill CM**. The Neural Correlates of Visuomotor Performance And Retention After Acute Exercise: A Pilot Study. Southeast American College of Sports Medicine Annual Meeting, Greenville SC. February 26-28, 2026.
- † Atkins S, Barzi L, Wood T, Sebastião E, Wilson M, **Hill CM**. Reinforcement and sensory feedback similarly maintain a new walking pattern during retention testing: a preliminary analysis. Midwest Chapter of

the American College of Sports Medicine (MWACSM) Annual Meeting, Indianapolis, IN October 20-22, 2022.

- † Barzi L, Atkins S, Wood T, Sebastião E, Wilson M, **Hill CM**. Reinforcement and sensory feedback similarly enhance locomotor learning: a preliminary analysis Midwest Chapter of the American College of Sports Medicine (MWACSM) Annual Meeting, Indianapolis, IN October 20-22, 2022.

Kodithuwakku Arachchige SNK, Chander H, Freeman H, **Hill CM**, Hudson C, Turner A, Jones A, Knight A. The Walls Are Closing In: Postural Responses To A Virtual Claustrophobic Simulation. Southeast American College of Sports Medicine Annual Meeting, Greenville SC. February 17-19, 2022.

Williams CC, Donahue PT, Wilson SJ, Mouser JG, **Hill CM**, Luginsland LA, Wade C, Garner JC. Examining Percent Activation Changes in Different Phases of the Swing in Collegiate Softball Players. 50th Southeast American College of Sports Medicine Annual Conference, Greenville, SC. February 17-19, 2022.

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, TN, February 15-17th 2018.
- 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. SEASCM 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. SEASCM 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, SEASCM 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 Extremity 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.