

Harish Chander, Ph.D.

Assistant Professor of Biomechanics

Co-Director of the Neuromechanics Laboratory

Department of Kinesiology

Mississippi State University

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ACADEMIC RECORD:

Doctor of Philosophy

University of Mississippi,
Department of Health, Exercise Science & Recreation Management,
University, MS
Major Area: Biomechanics / Neuromechanics
Minor Area: Exercise Physiology
Research Concentration: Ergonomics and Fall Prevention
August 2014

Doctoral Dissertation:

Biomechanics of Slips in Alternative Footwear

Master of Science

University of Mississippi,
Department of Health, Exercise Science & Recreation Management,
University, MS
Major Area: Neuromechanics
Minor Area: Exercise Physiology
Research Concentration: Ergonomics and Fall Prevention
May 2012

Masters' Thesis:

Impact of Occupational Footwear on Balance

Bachelor of Physical Therapy

The Tamil Nadu Dr. MGR Medical University
SreeBalaji College of Physiotherapy
Major Area: Orthopedic and Pediatric PT
Work Concentration: Neuro-Developmental Therapy
May 2008

Under-Grad Dissertation:

The Effects of Cryotherapy and Massage in the Treatment of Delayed Onset of Muscle Soreness (DOMS)

EMPLOYMENT HISTORY:

2014 – Present

Assistant Professor of Biomechanics & Co-Director of the Neuromechanics Laboratory

Department of Kinesiology, Mississippi State University

- Human Factors and Ergonomics
- Neuromotor Control and Learning
- Biomechanics and Occupational Biomechanics
- Anatomical Kinesiology and Applied Anatomy & Pathophysiology
- Prevention and Care / Rehabilitation Techniques in Sports Medicine
- Athletic Training
- Sports Biomechanics

2010 – 2014

Graduate Teaching Assistant

Department of Health, Exercise Science and Recreation Management, University of Mississippi

- Motor Control and Learning Instructor
- Kinesiology Instructor and Teaching Assistant
- Care and Prevention of Athletic Injuries Instructor
- Biomechanics and Exercise Physiology Laboratory Instructor

Graduate Research Assistant and Student Lab Director

Applied Biomechanics Laboratory, Department of Health, Exercise Science and Recreation Management, University of Mississippi

- Undergraduate Practicum and Independent Study Student Advisor
- Equipment Management
- Research Design, Evaluation and Implementation
- Data Collection, Programming and Analysis

2008 – 2009

Physical Therapist and Fitness Coordinator

Talwalkars Better Value Fitness Pvt. Ltd, Chennai, India

- Exercise Prescription and Testing
- Fitness Trainer
- Administrative official for promoting health & fitness

2007 – 2008

Pediatric Physical Therapist

VinayagaPhysio Point, Chennai, India

- Diagnosis, assessment and treatment of ailments (Physical Therapy)
- Pediatric Neuro-Development Therapy
- Pain Relief of Musculoskeletal Injuries
- Rehabilitation of Orthopedic and Neurological Conditions

DIRECTORSHIP AND POSITIONS HELD:

2014 – Present	Assistant Professor of Biomechanics Mississippi State University
2014 – Present	Co-Director Neuromechanics Laboratory
2016 – Present	Adjunct Research Assistant Professor The University of Mississippi
2014 – Present	Affiliated Faculty Researcher Human Performance Lab, CAVS
2016 – Present	Director of Research Center for American Veterans, MSU
2015 – Present	Faculty Advisor Neuromechanics Research Core (NRC), Undergraduate Student Club, Mississippi State University
2014 – Present	Committee Member Laboratory Committee, Department of Kinesiology, Mississippi State University
2014 – Present	Committee Member Academic Culture Committee, Department of Kinesiology, Mississippi State University
2017 – Present	Working Group Member Body Sensor Network and Wearable Technology Working Group, Mississippi State University
2016 – 2017	Co-Director Human Factors Working Group, Mississippi State University
2014 – 2017	Working Group Member Human Factors Working Group, Mississippi State University
2014 – 2016	Committee Member Diversity Committee, College of Education, Mississippi State University
2013 – 2014	Director – Academic and Professional Development Committee - Graduate Student Council - University of Mississippi
2013 – 2014	Graduate Student Council Representative Standing Committee - Office of the Chancellor; Recreational Facilities, University of Mississippi
2012 – 2014	Graduate Student Director Applied Biomechanics Laboratory, University of Mississippi
2012 – 2013	Chair Academic Affairs Committee - Graduate Student Council - University of Mississippi

2012 – 2014	Senator Graduate Student Council - University of Mississippi
2010 – 2014	Graduate Student Advisor - Honors Thesis Students - Sally McDonnell Barksdale Honors College, University of Mississippi
2009 – 2014	Graduate Research Assistant - Applied Biomechanics Laboratory, University of Mississippi
2004 – 2008	Physical Therapist Clinical Intern Sree Balaji College of Physiotherapy, Department of Physical Therapy

PEER-REVIEWED JOURNAL PUBLICATIONS:

1. **Chander H.** Garner JC, Wade C and Knight AC. (2017). Postural Control in Workplace Safety: Role of Occupational Footwear and Workload. *Safety*. 3(3), 18; doi:10.3390/safety3030018.
2. Dabbs NC, Sauls NM, Zayer A & **Chander H.** Balance Performance in Collegiate Athletes: A Comparison of Balance Error Scoring System Measures. *J. Funct. Morphol. Kinesiol.* 2(3), 26; doi:10.3390/jfmk2030026.
3. Simpson, J., Miller B.L., O'Neal E., **Chander, H.** & Knight A.C. (2017). External Load Training Does Not Alter Balance Performance in Well-Trained Women. *Sports Biomechanics*, doi.org/10.1080/14763141.2017.1341546.
4. Morris, C.E., **Chander, H.**, Garner, J.C., DeBusk, H., Owens, S.G., Valliant, M.W., Loftin, M. (2017). Evaluating Human Balance Following an Exercise Intervention in Previously Sedentary, Overweight Adults. *J. Funct. Morphol. Kinesiol.* 2(2), 19; doi:10.3390/jfmk2020019
5. **Chander, H.**, Wade, C., Garner, J.C. & Knight, A.C. (2016). Slip Initiation in Alternative and Slip Resistant Footwear. *International Journal of Occupational Safety and Ergonomics*. DOI: 10.1080/10803548.2016.1262498.
6. **Chander, H.**, Wade, C. & Garner, J.C. (2016). Slip Outcomes in Firefighters: A Comparison of Rubber and Leather Boots. *Occupational Ergonomics*, 13 (2), 67-77.
7. **Chander, H.**, Morris CE, Wilson SJ, Wade, C & Garner JC. (2016). Balance Performance in Alternative Footwear. *Footwear Science*, 8(3), 165-174.
8. **Chander, H.**, & Dabbs, N. C. (2016). Balance Performance and Training Among Female Athletes. *Strength & Conditioning Journal*, 38(2), 8-13.
9. Knight, A. C., Holmes, M. E., **Chander, H.**, Kimble, A., & Stewart, J. T. (2016). Assessment of balance among adolescent track and field athletes. *Sports biomechanics*, 15(2), 169-179.
10. **Chander, H.**, Garner, J. C., & Wade, C. (2015). Heel Contact Dynamics in Alternative Footwear during Slip Events. *International Journal of Industrial Ergonomics*, 48, 158-166.
11. **Chander, H.**, Wade, C., & Garner, J. C. (2015). Impact of Occupational Footwear on Dynamic Balance Perturbations. *Footwear Science*, 7(2), 115-126.
12. **Chander, H.**, Garner, J. C., & Wade, C. (2015). Ground Reaction Forces in Alternative Footwear during Slip Events. *International Journal of Kinesiology and Sports Science*, 3(2), 1-8.
13. **Chander, H.**, MacDonald, C. J., Dabbs, N. C., Allen, C. R., Lamont, H. S., & Garner, J. C. (2014). Balance Performance in Female Collegiate Athletes. *Journal of Sports Science*, 2, 13-20.

14. **Chander, H.**, Garner, J. C., & Wade, C. (2014). Impact on balance while walking in occupational footwear. *Footwear Science*, 6(1), 59-66.
15. Dabbs, N. C., MacDonald, C. J., **Chander, H.**, Lamont, H. S., Garner, J. C. (2014). The Effects of Whole-body Vibration on Balance in Elderly Women. *MedicinaSportiva*. 18(1): 10-15.
16. Garner, J. C., Wade, C., Garten, R., **Chander, H.**, & Acevedo, E. (2013). The influence of firefighter boot type on balance. *International Journal of Industrial Ergonomics*, 43(1), 77-81.
17. MacDonald, C. J., Israel, M., Dabbs, N. C., **Chander, H.**, Allen, C. R., Lamont, H., & Garner, J. C. (2013) Influence of Body Composition on Selected Jump Performance Measures in Collegiate Female Athletes. *Journal of Trainology*, 2: 33-37.

MANUSCRIPTS IN-REVIEW IN PEER-REVIEWED JOURNALS:

1. Krings BM, Miller BL, **Chander H**, Waldman HS, Knight AC, McAllister M, Fountain BJ, Smith JW. Impact of occupational footwear during simulated workloads on energy expenditure. *Footwear Science* (In-Review)
2. **Chander H**, Knight AC, Garner JC, Wade, C, Carruth D, Wilson SJ, Gdovin JR & Williams CC. Impact of military type footwear and load carrying workload on postural stability. *Ergonomics*. (In-Review).
3. **Chander H**, Knight AC, Garner JC, Wade, C, Carruth D, DeBusk H & Hill CM. Impact of military type footwear and workload on heel contact dynamics during slip events. *International Journal of Industrial Ergonomics*. (In-Review).
4. DeBusk H, Hill CM, **Chander H**, Knight AC & Babski-Reeves K. Influence of Military Workload and Footwear on Static and Dynamic Balance Performance. *International Journal of Industrial Ergonomics*. (In-Review).
5. Morris, CE, **Chander, H**, Wilson, SJ, Wade, C, Loftin, M, & Garner, JC. Impact of alternative footwear on human energy expenditure. *Journal of Human Sport and Exercise*. (In Review).
6. Morris, CE, & **Chander, H**. The impact of firefighter workload on physiological parameters in different environmental conditions. *International Journal of Industrial Ergonomics*. (In-Review).
7. Garner, JC, Wilson, SJ, Gdovin, JR, Williams, CC, Eason, JD, Hoke, EL, **Chander, H**, Williams, N, Wade, C. The Impact of Golf Specific Footwear on Human Balance. *Sports Biomechanics*. (In-Review)
8. Gdovin, JR; Williams, CC; Wilson, SJ; Cazas-Moreno, VC; Eason, JD; Hoke, EL; Allen, CR; **Chander, H**; Wade, C; Garner, JC. The effects of athletic footwear on ground reaction forces during a side step cutting maneuver on artificial turf. *Journal of Sports Sciences*. (In-Review).
9. Wilson SJ, Williams CC, Gdovin JR, Eason JD, **Chander H**, Wade C & Garner JC. The Influence of an Acute Bout Whole Body Vibration on Human Postural Control Responses. *Journal of Motor Behavior*. (In-Review).
10. Hill CM, DeBusk H, Knight AC & **Chander H**. Influence of military type workload and footwear on muscle exertion during balance performance. *Footwear Science* (In-Review).
11. Simpson JD, Miller BM, Knight AC & **Chander H**. Impact of external load training on drop landing kinetics. *Human Movement Science*. (In-Review).
12. Turner AJ, Swain JC, McWhirter KL, Knight AC, Carruth D & **Chander H**. Influence of occupational footwear and workload on muscular exertion. *International Journal of Exercise Science*. (In-Review).

MANUSCRIPTS IN-PREPARATION:

1. **Chander H**, McDaniel J, Turner AJ, Knight AC, Simpson JD & Caruth D. Influence of occupational footwear and workload on postural stability. *Occupational Ergonomics*. (In-Preparation).
2. Miller BL, Simpson JD, **Chander H** & Knight AC. A comparison of two Vibram footwear on balance. *Footwear Science*. (In-Preparation).
3. Wade C, Davis J & **Chander H**. Postural Stability of Commercial Truck Drivers (In-Preparation).

PEER REVIEWED PUBLISHED CONFERENCE PROCEEDINGS:

1. DeBusk H, Babski-Reeves K, & **Chander H**. Preliminary analysis of StrongArm® ergoskeleton on knee and hip kinematics and user comfort. Proceedings of the Human Factors and Ergonomics Society Annual Meeting, Austin TX, October 9-13, 2017.
2. **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. *Proceedings of the American Society of Biomechanics Annual Conference*, Boulder CO, August 8-11, 2017.
3. 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.
4. 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. *Proceedings of the American Society of Biomechanics Annual Conference*, Boulder CO, August 8-11 2017.
5. Hill CM, DeBusk H, Wilson SJ, Gdovin JR, Williams CC, Luginsland LA, Knight AC and **Chander H**. Influence of military type footwear and workload on co-contraction index in unilateral stance. *Proceedings of the American Society of Biomechanics Annual Conference*, Boulder CO, August 8-11 2017.
6. Simpson JD, DeBusk H, Hill CM, Miller BL, Knight AC and **Chander H**. Effect of military footwear type on ankle stability following a simulated military workload. *Proceedings of the American Society of Biomechanics Annual Conference*, Boulder CO, August 8-11 2017.
7. Wilson SJ, Gdovin JR, Williams CC, Eason JD, Luginsland LA, Hill CM, Donahue PT, Hoke EL, **Chander H**, Garner JC. More Than a Foot Wedge – Golf Footwear and Postural Control. NSCA Annual Meeting, Las Vegas, NV. July 12-15. National Strength and Conditioning Association.
8. **Chander H**, Garner JC, Wade C, Knight AC, Wilson SJ & Fu YC. Human Balance in Occupational Footwear with an Extended Duration Workload. Abstracted: *Proceedings of the 40th American Society of Biomechanics Annual Meeting*, Raleigh, NC, August 2-5, 2016.
9. DeBusk H, Hill CM, Stewart T, Miller BL, Simpson JD, Knight AC & **Chander H**. Impact of High Top Military Type Boots on Balance. Abstracted: *Proceedings of the 40th American Society of Biomechanics Annual Meeting*, Raleigh, NC, August 2-5, 2016.

10. Hill CM, DeBusk H, Stewart T, Miller BL, Simpson JD, Knight AC, & **Chander H**. Impact of Military Type Footwear and Workload on Co-Contraction Index in Static Balance. Abstracted: *Proceedings of the 40th American Society of Biomechanics Annual Meeting*, Raleigh, NC, Aug 2-5, 2016.
11. Eason JD, Wilson SJ, Gdovin JR, Williams CC, Hoke EL, **Chander H**, & Garner JC. Effects of whole body vibration on maximal voluntary isometric contraction and percent muscle activation during balance perturbations. Abstracted: *Proceedings of the 40th American Society of Biomechanics Annual Meeting*, Raleigh, NC, August 2-5, 2016.
12. Wilson SJ, Gdovin JR, Williams CC, Eason JD, **Chander H**, & Garner JC. Applications of Whole Body Vibration: Are Spinal Modifications Playing a Role? Abstracted: *Proceedings of the 40th American Society of Biomechanics Annual Meeting*, Raleigh, NC, August 2-5, 2016.
13. **Chander H**, Garner JC, Wade C & Knight AC. Impact of Alternative Footwear on Lower Extremity Muscle Activity during Normal and Slippery Gait. *Annual Proceedings of the Gait and Clinical Movement Analysis Society*. Memphis, TN, May 17-20, 2016.
14. **Chander H**, Wade C, Knight AC & Garner JC. Lower Extremity Joint kinematics in Alternative Footwear during Slip Events. *Proceedings of the American Society of Biomechanics Annual Conference*, Columbus, OH Aug 5th -8th 2015.
15. Wilson SE, **Chander H**, Morris CE, Garner JC, Waddell DE & Wade, C. Alternative Footwear's Influence on Muscle Activation Patterns of the Lower Leg following a One Mile Walk. *Proceedings of the American Society of Biomechanics Annual Conference*, Columbus, OH Aug 5th -8th 2015.
16. Garner JC, **Chander H**, Morris CE, Wilson SJ & Wade C. Impact of Alternative Footwear on Balance Perturbations. 62nd ACSM Annual Meeting and 6th World Congress on Exercise is Medicine, San Diego CA, May 26-30, 2015.
17. Wilson SJ, **Chander H**, Morris CE, Wade C & Garner JC. Alternative Footwear's Influence on Static Balance Following a One Mile Walk. 62nd ACSM Annual Meeting and 6th World Congress on Exercise is Medicine, San Diego CA, May 26-30, 2015.
18. 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. 62nd ACSM Annual Meeting and 6th World Congress on Exercise is Medicine, San Diego CA, May 26-30, 2015.
19. 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. 62nd ACSM Annual Meeting and 6th World Congress on Exercise is Medicine, San Diego CA, May 26-30, 2015.
20. Dabbs NC, **Chander H**, Black CD, Loftin M, Valliant M, Brown LE & Garner JC. Effects of Whole Body Vibration on Voluntary Torque Following Exercise Induced Muscle Damage in Recreationally Trained Females. 62nd ACSM Annual Meeting and 6th World Congress on Exercise is Medicine, San Diego CA, May 26-30, 2015.
21. **Chander H**, Wade C, Allen CR, Cazas VL, Lundahl J & Garner JC. Muscle Activity during Balance Perturbations in Occupational Footwear. *World Congress of Biomechanics 2014*. Boston, MA, July 6-11, 2014.
22. Waddell DE, **Chander H**, Brewer CB. Exploring measures to better assess the effect of cold on dynamic balance in a young and older female population. *International Society for Posture & Gait Research. 2014 ISPGR World Congress*, Vancouver, Canada, June 29-July 3, 2014.

23. Dabbs NC, **Chander H**, Moreno V, Brown LE, & Garner JC. Effects of Whole Body Vibration on Muscle Activity during Maximal Voluntary Isometric Contraction Following Exercise Induced Muscle Damage. *NSCA Annual Meeting*, Las Vegas, NV, July 9-12, 2014. *Journal of Strength and Conditioning Research*.
24. Moreno VL, **Chander H**, MacDonald CJ, Dabbs NC, Allen CR, Lamont HS, & Garner JC. Differences in Reaction Time between Female Collegiate Athletes. *NSCA Annual Meeting*, Las Vegas, NV, July 9-12, 2014. *Journal of Strength and Conditioning Research*.
25. Garner JC, **Chander H**, Wade C, Dabbs NC, Allen CR, Cazas VL, Lundahl J, Borland CE. The Influence of Occupational Footwear on Lower Extremity Muscle Activity during Balance Perturbations. ACSM Annual Meeting, Orlando, FL, May 28-31, 2014. *Medicine and Science in Sports and Exercise*, 46(5S): S, 2014.
26. **Chander H**, Wade C, Dabbs NC, Allen CR, Cazas VL, Lundahl J, & Garner JC. The Effect of Occupational Footwear on Dynamic Balance. Abstracted: *Proceedings of the American Society of Biomechanics Annual Meeting*, Omaha, NE, Sept 4-7, 2013
27. Dabbs NC, **Chander H**, Allen CR, Lundahl J, Cazas VL, Hilton MS, Italia MA, & Garner JC. The Effects of Whole-body Vibration on Ground Reaction Forces and Rate of Force Development in College Aged Females. NSCA Annual Meeting, Las Vegas, NV, July 11-13, 2013. *Journal of Strength and Conditioning Research*.
28. Allen CR, Lundahl J, **Chander H**, Zachay C, Dabbs NC, & Garner JC. The Acute Effects of a Performance Mouthpiece on Whole Body Reaction Time to Balance Perturbations. NSCA Annual Meeting, Las Vegas, NV, July 11-13, 2013. *Journal of Strength and Conditioning Research*.
29. Cazas, VL, Brown, LE, Coburn, JW, Galpin AJ, Tufano JJ, Garner JC, Dabbs NC, & **Chander H**. Influences of Rest Intervals Following Assisted Jumping on Peak Velocity, Rate of Velocity Development & Rate of Force Development. NSCA Annual Meeting, Las Vegas, NV, July 11-13, 2013. *Journal of Strength and Conditioning Research*.
30. Garner JC, **Chander H**, Wade C, Dabbs NC, Waddell DE, & Lundahl J. Impacts of Muscle Activity while Walking in Occupational Footwear. Abstracted: *Medicine & Science in Sports & Exercise*, ACSM 60th Annual Meeting, Indianapolis, IN, 2013.
31. Dabbs NC, **Chander H**, Lundahl J, Allen CR & Garner JC. The Effects of Whole body Vibration on Vertical Jump Height and Peak Power. ACSM Annual Meeting, Indianapolis, IN, May 28-June 1, 2013. *Medicine and Science in Sports and Exercise*, 45(5S): S, 2013.
32. **Chander H**, Garner JC, Wade C, Roche J, Dabbs NC & MacNeill RL. The Effect of extended durations of walking in occupational footwear. Abstracted: *Proceedings of the American Society of Biomechanics*, Gainesville, FL, 2012.
33. Dabbs NC, Garner JC, Ricks RC, **Chander H**, Wilkerson C, & Young J. The Influence of different weighted warm-up bats on swinging performance. Abstracted: *Medicine and Science in Sports and Exercise* 44(5), S401, 2012.
34. Garner JC, **Chander H**, Dabbs NC, Roche J & Wade C. The Influence of occupational footwear on balance. Abstracted: *Medicine & Science in Sports & Exercise* 44(5), S336, 2012
35. Dabbs NC, Garner, JC, **Chander. H**, & Brown, LE. Three Dimensional Examination of the Influence of Different Weighted Warm-up Bats on Swing Kinematics. *Journal of Strength and Conditioning Research* 27(1s), 2012

36. **Chander H**, Wade, C, Garner, JC, Garten, R, & Acevedo, E. The Influence of Firefighter Boot Type on Postural Measures. Abstracted: *Proceedings of the American Society of Biomechanics*, Long Beach, CA, 2011
37. MacDonald CJ, Garner JC, **Chander H**, Gray H, Gentles J, Kavanaugh A, Israetel M, Carter C, Mizuguchi S, & Hornsby W. Comparisons between Body Composition and Power Production during Jumps in Collegiate Female Athletes. Abstracted: NSCA Annual Meeting, Las Vegas, July 6 -9, 2011. *Journal of Strength and Conditioning Research*.

PEER-REVIEWED CONFERENCE PRESENTATIONS:

1. Simpson JD, Miller BL, O'Neal EK, **Chander H** & Knight AC. Analysis of Landing Kinetics During a Drop Vertical Jump After Three Weeks of External Load Training. Southeast American College of Sports Medicine, Greenville, SC, 2017.
2. Forge SR, Simpson JD, Miller BL, O'Neal EK, **Chander H** & Knight AC. Changes in Jumping Kinetics Following Three Weeks of External Load Training in Well-Trained Women. Southeast American College of Sports Medicine, Greenville, SC, 2017.
3. Sutton P, Forge SR, Mosby A, McDaniel J, Miller BL, Simpson JD, **Chander H** & Knight AC. Three-Week External Load Training Does Not Improve Vertical Jump and Sprint Performance in Well-Trained Women. Southeast American College of Sports Medicine, Greenville, SC, 2017.
4. Mosby A, Sutton P, Forge SR, McDaniel J, Miller BL, Simpson JD, **Chander H** & Knight AC. Three-Weeks of External Load Training Does Not Alter Muscle Activity During Static Balance. Southeast American College of Sports Medicine, Greenville, SC, 2017.
5. McDaniel J, Forge SR, Sutton P, Mosby A, Miller BL, Simpson JD, **Chander H** & Knight AC. Three Week External Load Training Does Not Increase Lower Extremity Muscle Activation in Well-Trained Females. Southeast American College of Sports Medicine, Greenville, SC, 2017.
6. Swain JC, Miller BL, Pace MT, Lowell RK, Simpson JD, Knight AC & **Chander H**. Impact of Minimalist Footwear Type and Fatigue on Balance. Southeast American College of Sports Medicine, Greenville, SC, 2017.
7. Turner AJ, DeBusk H, Lowell RK, Hill CM, Miller BL, Simpson JD, Knight AC & **Chander H**. Effects of Military Type Footwear and Workload on Unilateral Static Balance Southeast American College of Sports Medicine, Greenville, SC, 2017.
8. Miller BL, Simpson JD, Swain JC, Pace MT, Lowell RK, Pan Z, Knight AC & **Chander H**. Effect of Minimalist Footwear and Fatigue on Static Balance. Southeast American College of Sports Medicine, Greenville, SC, 2017.
9. Dispennette AK, Morris CE, **Chander H**, Garner JC, DeBusk H, Owens, SG, Valliant, MW & Loftin, M. Impact of an Exercise Intervention on Human Balance Center of Pressure Sway Parameters in Previously Sedentary, Overweight Adults. Southeast American College of Sports Medicine, Greenville, SC, 2017.
10. 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 American College of Sports Medicine, Greenville, SC, 2017.
11. 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 American College of Sports Medicine, Greenville, SC, 2017.

12. Hoke EL, Wilson SJ, Gdovin JR, Williams CC, Eason JD, Luginsland LA, Hill CM, Donahue PT, **Chander H**, Wade C, Green M & Garner JC. Acute Effects of Golf Specific Footwear on Bilateral Balance. Southeast American College of Sports Medicine, Greenville, SC, 2017.
13. Luginsland, LA, Wilson, SJ, Gdovin, JR, Williams, CC, Eason, JD, Hoke, EL, Hill, CM, Donahue, PT, **Chander, H**, Wade, C & Garner, JC. The Acute Influence of Golf Specific Footwear on Balance Equilibrium Scores. Southeast American College of Sports Medicine, Greenville, SC, 2017.
14. Morris, CE, **Chander, H**, Garner, JC, DeBusk, H, Owens, SG, Valliant, MW & Loftin, M. Evaluating Perturbations to Human Balance Following an Exercise Intervention in Previously Sedentary, Overweight Adults. Southeast American College of Sports Medicine, Greenville, SC, 2017.
15. Pearson RC, Morris, CE, **Chander H**, Wilson SJ, Loftin M, Wade, C & Garner, JC. Impact of Alternative Footwear on Human Energy Expenditure. Southeast American College of Sports Medicine, Greenville, SC, 2017.
16. Wiczynski TL, Morris CE, **Chander, H**, Garner, JC, DeBusk H, Owens, SG, Valliant, MW, & Loftin, M. The Relationship of Weight Loss and Balance Performance Following an Exercise Intervention in Previously Sedentary Overweight Adults. Southeast American College of Sports Medicine, Greenville, SC, 2017.
17. 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 American College of Sports Medicine, Greenville, SC, 2017.
18. Wilson SJ, Gdovin JR, Williams CC, Eason JD, Hoke EL, Luginsland LA, Hill CM, Donahue PT, **Chander H**, Wade C, Green M & Garner JC. The Effects of Golf Specific Footwear on Human Balance. Southeast American College of Sports Medicine, Greenville, SC, 2017.
19. **Chander, H.**, Garner, JC., Wade, C., Knight, AC., DeBusk, H. & Hill, CM. (2016). Lower Extremity Muscle Activity in Alternative Footwear During Slip Events: A Preliminary Analysis. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
20. DeBusk, H., Hill, CM., Stewart, T., Miller, BM., Simpson, JD., Knight AC & **Chander, H.** Effects of Military Type Footwear and Workload on Static Balance. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
21. 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. SEACSM Annual Meeting, Greenville, SC February 18-20, 2016.
22. Miller, BL., DeBusk, H., Hill, CM., Stewart, T., Simpson, JD., Knight, AC. & **Chander, H.** (2016). Impact of Military Boot Type and Physical Work Load on Dynamic Balance. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
23. 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. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
24. Stewart, T., Kimble, A., Brown, J., Holmes, M.E., **Chander, H** & Knight, A.C. Effects of event specialty, Gender and leg dominance on running kinetics of high school track and field athletes. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
25. Wilson, SJ., **Chander, H.**, Wade, C., Cazas-Moreno, VL., Gdovin, JR., Williams, CC. & Garner, JC. Ankle Kinematics in Alternative Footwear during Slip Events. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
26. Gdovin, JR., **Chander, H.**, Wade, C., Wilson, SJ., Cazás-Moreno, VL., Williams, CC & Garner, JC. Occupational Footwear's Effect on Balance. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.

27. Williams, CC, **Chander, H.**, Wade, C., Wilson, SJ., Cazás-Moreno, VL., Gdovin, JR. & Garner, JC. Footwear Design Characteristic's Impact on Lower Extremity Muscle Activity. SEACSM Annual Meeting, Greenville, SC, February 18th - 20th, 2016.
28. **Chander H.**, Morris CE, Wilson SJ, Knight AC, Holmes ME, Wade C & Garner JC. Impact of Alternative Footwear on Balance Perturbations. SEACSM Annual Meeting, Jacksonville, FL, February 12-14, 2015.
29. Wilson SJ, **Chander H.**, Morris CE, Wade C & Garner JC. Alternative Footwear's Influence on Static Balance Following a One Mile Walk. SEACSM Annual Meeting, Jacksonville, FL, February 12-14, 2015.
30. 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.
31. 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.
32. Kimble, A., Brown, J., Stewart, T., **Chander, H.**, M.E. Holmes, & A.C. Knight. Influence of Event, Gender, and Leg Dominance on Balance among 1 High School Track And Field Athletes. SEACSM Annual Meeting, Jacksonville, FL, February 12-14, 2015.
33. Stewart, T., Brown, J., Kimble, A., **Chander, H.**, M.E.Holmes, & A.C. Knight. Influence of Event, Gender, and Leg Dominance on Balance among 1 High School Track And Field Athletes. SEACSM Annual Meeting, Jacksonville, FL, February 12-14, 2015.
34. Dabbs NC, **Chander H.**, Cazas VL, Allen CR, Lundahl J, Terrell E & Castles C, Brown LE & Garner JC. Effects of Whole Body Vibration on Vertical Jump Height and Power Output Following Exercise Induced Muscle Soreness in Women. SWACSM 32nd Annual Meeting, Newport Beach, CA, Oct 18-19, 2013.
35. **Chander H.**, Garner JC, Wade C, Dabbs NC, Waddell DE & Lundahl J. Impacts of Muscle Activity while Walking in Occupational Footwear. SEACSM Regional Meeting, Greenville, SC, Feb 14-16, 2013.
36. Dabbs NC, **Chander H.**, Lundahl J, Allen CR & Garner JC. The Effects of Wholebody Vibration on Vertical Jump Height and Peak Power. SEACSM Regional Meeting, Greenville, SC, Feb 14-16, 2013.
37. Lundahl J, Allen CR, Dabbs NC, **Chander H.** & Garner JC. The Acute Effects of a performance Mouthpiece on Measures of strength and power. SEACSM Regional Meeting, Greenville, SC, Feb 14-16, 2013.

RESEARCH FUNDING:

- **NSF i-Corps 2017:**
Design and prototyping of the additive manufactured foot orthoses
Role: Co-I
Funding: \$3,000
Status: Funded
- **PACCAR Engines Inc. 2016:**
Ergonomic Assessment of Engine Assembly Tasks.

Role: Co-PI
Funding: \$16,875
Status: Funded

- **MSU Cross College Grant 2016:**

Impact of Novel Orthotics in the Military: Material and Human Factors
Role: PI
Funding: \$2,000
Status: Funded

- **Department of Defense, Congressionally Directed Medical Research Program (CDMRP)**

Impact of Novel Foot Orthoses in the Military,
Role: PI
Funding: \$497,956

Status: Selected at the pre-application level and invited for full application which was not funded.

- **Deep South ERC's Pilot/Small Projects Research Training Program (PPRTP).** A National Institute for Occupational Safety and Health (NIOSH). Theme: Workplace Ergonomics
Gait Kinematics and Kinetics in Military Footwear.

Role: PI
Funding: \$20,000.00
Status: Funded

- **CAVS-Kinesiology Collaborative Research Development Grant**

Human Performance Lab (HPL) upgrade at CAVS
Role: Investigator
Funding: \$100,000.00
Status: Funded

- **MSU ORED Faculty Research Travel Grant 2016:**

Role: Presenter of Peer Reviewed Research
Funding: \$3000
Status: Funded by Department of Kinesiology, College of Education and ORED

- **MSU Cross College Grant 2015:**

Slip Initiation in Military Footwear
Role: PI
Funding: \$2,000
Status: Funded

- **MSU Cross College Grant 2014:**

Impact of High Top Military Boots on Balance and Ankle Stability
Role: PI
Funding: \$2,000.00
Status: Funded

- **MSU ORED Faculty Research Travel Grant 2015**

Role: Presenter of Peer Reviewed Research
Funding: \$965

Status: Funded by Department of Kinesiology, College of Education and ORED

- **MSU Human Factors Working Group – Graduate Student Award**
 Role: Advisor to Mr. Hunter DeBusk
 Funding: \$500
 Status: Funded
- **NSF PFC-BIC Grant:**
 Improving Equipment Fit and Individual Customization of the Golf Swing
 Role: Co-PI
 Funding: \$998,361.00
 Status: Not Funded
- **MSU Bagley College of Engineering Working Group 2015:**
 Human Factors Working Group.
 Role: Member
 Funding: \$1425
 Status: Funded
- **MSU Engineering Working Group Grant 2014:**
 RADAR working group – Bagley College of Engineering
 Role: Member
 Funding: \$2,000.00
 Status: Funded
- **University of Mississippi Graduate Student Council Research Grant 2011**
 The effect of extended durations of walking in occupational footwear on postural control
 Role: PI
 Funding: \$500.00
 Status: Funded
- **University of Mississippi Graduate Student Council Research Grant 2013**
 Impact of Alternative Footwear on Human Energy Expenditure, Balance and Gait
 Role: Co-I
 Funding: \$1000.00
 Status: Funded
- **University of Mississippi Graduate Student Council Research Grant 2013**
 Biomechanical analysis of barefoot and shod conditions in human gait and balance
 Role: PI
 Funding: \$1000.00
 Status: Not Funded
- **University of Mississippi Research Travel Grant Recipient, 2011, 2012, 2013**
- **Recipient of the UM Summer Thesis Scholarship, Summer 2012**
- **Recipient of the UM Summer Dissertation Scholarship, Summer 2014**

RESEARCH AND CLINICAL EXPERIENCE:**Human Factors and Ergonomics (Selected):**

- Ergonomic Assessment of Engine Assembly Tasks – PACCAR, Inc. (Co-PI)
- Energy Expenditure and Cardiorespiratory Responses in Occupational Footwear (Co-PI)
- Subjective and Objective Measures of Fatigue: Impact of Occupational Task and Footwear (PI).
- Biomechanics of Balance, Load Carriage and Slips in Military Footwear (PI)
- Impact of Military Footwear on Balance and Ankle Stability (PI)
- Impact of Standing Surface, Cognitive Task and Fatigue on Balance (PI)
- Impact of Whole Body Vibration on Reaction Times during Balance Perturbations (Co-I)
- Biomechanics of Slips in Alternative Footwear (PI)
- Biomechanics of Human Energy Expenditure and Balance in Alternative Footwear (PI)
- Kinematics and Kinetics of Slip Trials in Firefighters (Co-I)
- The Effect of Occupational Footwear on Dynamic Balance (PI)
- The Effect of Extended Durations of Walking in Occupational Footwear on Balance (PI)
- The Effect of Cold Suit on Balance Measures Among the Young and Elderly (Analysis)
- Pilot testing Kinematics of Walking on Ballast and Non-Ballast Surfaces
- Balance, Body Composition and Jumping Performance in Collegiate Female Athletes

Sport performance and enhancement (Selected):

- Can high intensity interval training improve 800m/1500m indicators of aerobic performance and fitness? (Co-PI)
- The effect of fat-gripz in upper extremity performance (Co-PI)
- Activation of the Right Pectoralis Major and Left Deltoid Muscles During the Golf Swing as an Instructional Technique (Co-I)
- Impact of Vibram Type Minimalist Footwear on Static and Dynamic Balance (Co-PI)
- The Impact of Weighted Vest Training on Selected Athletic Performance (Co-I)
- The Influence of Body Composition on Selected Jump Performance Measures in Varsity Collegiate Female Varsity Athletes (Co-I)
- Three-Dimensional Examination of the Influence of Differently Weighted Warm-up Bats on Swing Kinematics
- The Effects of Whole-Body Vibration on Rest Intervals in Jumping Performance (I)
- The Effect of a TMJ Device on Athletic Performance Measures (I)

Rehabilitation (Selected):

- The Impact of Whole Body Vibration on Postural Stability Reaction Times (Co-PI)
- The Effect of Whole-Body Vibration on Functional Stability Measures in Older Women (Co-I).
- The Effect of Cryotherapy and Massage in the Treatment of Delayed Onset of Muscle Soreness (PI)
Physical therapy outpatient department

Research Collaborations:

- Neuromechanics Laboratory, Department of Kinesiology, Mississippi State University
- Applied Physiology Laboratory, Department of Kinesiology, Mississippi State University
- Human Performance Laboratory, Center of Advanced Vehicular Systems, Mississippi State University
- Applied Biomechanics Laboratory, Department of Health, Exercise Science & Recreation, The University of Mississippi
- Department of Industrial and Systems Engineering, Auburn University
- Biomechanics and Sport Performance Laboratory, Department of Kinesiology, California State University, San Bernardino

TEACHING CURRICULUM:

Mississippi State University:

- MSU - EP 8503 – Occupational Physiology (Fall 2016)
- MSU - EP 8443 – Neural Mechanisms in Human Movement and Exercise (Fall 2015, Fall 2017)
- MSU - EP 4503 – Mechanical Analysis of Movement (Summer 2016, Summer 2017)
- MSU - EP 3643 – Applied Anatomy and Pathophysiology (Spring 2015, Spring 2016, Spring 2017, Summer 2016, Summer 2017)
- MSU - EP 3233 – Anatomical Kinesiology (Fall 2014, Summer 2015, Fall 2015, Fall 2016, Spring 2017, Summer 2016)
- MSU - KI 3633 – Rehabilitation Techniques in Sports Medicine (Fall 2014, Summer 2015)
- MSU - KI 3273 – Athletic Training (Summer 2015, Fall 2015)
- MSU - PE 4283 – Sports Biomechanics (Spring 2015, Summer 2015, Spring 2016, Spring 2017, Summer 2016, Summer 2017)
- MSU - KI 2603 – Medical Terminology (Summer 2015, Summer 2016)

The University of Mississippi:

- UM - ES 338 – Motor Control and Learning (Fall 2013; Spring 2014)
- UM - ES 346 – Kinesiology (Spring 2012, Spring 2014)
- UM - HP 303 – Prevention and Care of Athletic Injuries (Fall 2012; Spring 2013)
- UM - ES 447 – Biomechanics Laboratory (Fall 2009, 2010; Spring 2010, 2011; Summer 2011, 2012)
- UM - ES 349 – Exercise Physiology Laboratory (Summer 2013)
- UM - HP 191 – Personal and Community Health (Summer 2012, 2012, 2013; Winter 2014)
- UM - EL 151 – Resistance Training and Weight Lifting (Fall 2009, Spring 2010)

PROFESSIONAL ORGANIZATIONS AND SERVICE:

Graduate Students:

- Ethan Stewart – PhD Student (Chair)

- Brandon Miller – PhD Student (Chair)
- Jeffrey Simpson – PhD Student (Committee Member)
- Alana Turner – MS (Chair)
- Hunter DeBusk – MS (Chair), PhD Student (Co-Chair)
- Chris Hill – MS (Chair), PhD Student (Committee Member)
- Korakot Simsiriwong (Chair)
- Matt Crahan (Committee Member)
- Dimitri Gayden (Committee Member)
- William Holcomb (Committee Member)
- Ty Stewart – MS (Committee Member)
- Tony Luczak – MS Student (Committee Member)
- Jenna Wooten – MS (Committee Member)
- Ffion Price – MS Student (Committee Member)

Manuscript Reviewer:

- *Ergonomics*
- *Applied Ergonomics*
- *International Journal of Industrial Ergonomics*
- *Safety and Health at Work*
- *Research Quarterly and Exercise Science*
- *Footwear Science*
- *Applied Physiology, Nutrition and Metabolism*
- *Strength Conditioning Journal*
- *Sports and Exercise Medicine Open Journal*
- *PLOS ONE*
- *Safety - MDPI*
- *Sports – MDPI*
- *Journal of Functional Morphology and Kinesiology – MDPI*

MEMBERSHIPS:

2014 – Present	Professional Member , American Society of Biomechanics
2011 – Present	Professional Member , Southeast Regional Chapters: American College of Sports Medicine
2015 – Present	Professional Member , International Council of Motor Sports
2015 – Present	Professional Member , Gait and Clinical Movement Analysis Society
Life Member	Indian Association of Physiotherapists

CERTIFICATIONS:

- Licensed Physical Therapist – Indian Association of Physiotherapists
- Certified Manual Therapist – Orthopedic Manipulative Rehabilitation
- Certified Instructor for CPR/AED; Adult, Children & Infant, American Red Cross

AWARDS AND RECOGNITIONS:

- J. Robert Blackburn Graduate Award in Exercise Science, University of Mississippi Honors Convocation, 2014
- Graduate Achievement Award in Health, Exercise Science and Recreation Management, University of Mississippi Honors Convocation, 2014
- Grand Prize Winner, University of Mississippi 3 Minute Thesis Competition - Represented University of Mississippi at the South Council of Graduate Schools at San Antonio in February 2014.
- Winner of the Student of the Month, School of the Applied Sciences - October 2013
- Winner of University of Mississippi - Annual Research Day and Symposium - 2nd Place; 2012

INVITED PRESENTATION / TALKS / LECTURES:

- Deep South NIOSH ERC Research Symposium 2017 – Biomechanics of Balance, Load Carriage and Slips in Military Footwear, Auburn, AL.
- Ergonomics Assessment of Engine Assembly Tasks 2017 – PACCAR, Inc.
- Center for American Veterans, Mississippi State University 2016 – Military Research
- Ergonomics Assessment of Workplace Settings (Administrative Office), Ole Miss Theatre, University of Mississippi, USA, 2013
- Ergonomics Awareness and Workplace Safety (Slips, Trips and Fall Prevention) Schwing Stetter India Pvt. Ltd, Chennai, India, 2013

Undergraduate Lectures:

- UM 2013, ES 346 Kinesiology – Ankle and Foot Complex
- UM 2013, ES 446 Biomechanics of Human Movement – Introduction to Biomechanics
- UM 2013, ES 446 Biomechanics of Human Movement – Mechanical Levers in Humans
- UM 2012, ES 446 Biomechanics of Human Movement – Gait

Graduate Lectures:

- UM 2013, ES 632 Advanced Structural Kinesiology – Structure and Biomechanics of the Foot and Ankle Complex
- UM 2013, ES 632 Advanced Structural Kinesiology – Structure and Biomechanics of the Hip Complex
- UM 2013, ES 632 Advanced Structural Kinesiology – Structure and Biomechanics of the Spine

- UM 2012, ES 512 Foundations of Biomechanics – Biomechanics of Balance and Gait
- UM 2011, ES 632 Advanced Structural Kinesiology – Spine Structural Kinesiology
- UM 2011, ES 632 Advanced Structural Kinesiology – Gait
- UM 2011, ES 632 Advanced Structural Kinesiology – Postural Control and Balance
- UM 2011, ES 612 Instrumentation and Analysis in Biomechanics – Assessment of Posture and Balance

IN THE NEWS/MEDIA:

- **Chander H.** MSU TV - https://www.youtube.com/watch?v=Yu6GF_J4Fkc&t=182s
- **Chander H.** Interview for news article on balance performance in *Dr. Oz's Good Life Magazine*. <http://www.drozthegoodlife.com/fitness/strength-cardio-exercise/how-to/a1951/balance-workout/>
- **Chander H.** Interview for news article on balance performance in *Women's Health Magazine*.
- **Chander H.** Featured on "Faculty Spotlight" in the 2016 COE newsletter.
- **Chander H.** Featured on the 2016 Kines Newsletter.
- **Chander H.** Infinite Impact MSU Foundation. Story by Watson Paige. <http://www.educ.msstate.edu/news/chander-knight-represent-college-education-infinite-impact-campaign-event/>
- Chander H and Knight AC. NM Lab Insights. <https://www.youtube.com/watch?v=4yUSqNUIQIA&t=20s>
- **Chander H** and Knight AC. NM Lab represents at ASB 2016. <http://www.kinesiology.msstate.edu/headlines/neuroconference.php>
- **Chander H** and Knight AC. NM Lab at SEACSM 2016. <http://www.kinesiology.msstate.edu/headlines/headline/stewart.php>

RESEARCH PRODUCTIVITY SUMMARY:

Peer-Reviewed Research Publications			
	Published	In-Review	In-Preparation
Journals	17	12	3
Conference Proceedings	37	-	-
Conference Presentations	37	-	-
Book Chapter	-	-	1

Research Funding		
	Applied	Acquired
External Funding	\$1,538,192.00	\$36,875.00
Internal Funding	\$120,890.00	\$118,890.00

REFERENCES:

John C. Garner III, Ph.D., C.S.C.S

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The University of Mississippi
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