

Nelson Cortes, PhD

Associate Professor, Kinesiology
Affiliate Professor, Department of Bioengineering
Coordinator, Ph.D. in Education, Kinesiology Concentration
Sports Medicine Assessment, Research & Testing (SMART) Laboratory
School of Kinesiology
10890 George Mason Circle
Katherine Johnson Hall 201E, MSN 4E5
Manassas, VA 20110
Tel: (703) 993-9257
Fax: (703) 993-2025
Email: ncortes@gmu.edu

Education

Doctor of Philosophy, Human Movement Sciences Program, Old Dominion University, Norfolk, Virginia (2010).

Dissertation: *Neuromechanical Analysis of Anterior Cruciate Ligament Risk Factors in Female Collegiate Soccer Athletes*

Master of Science in Education, Exercise Science, Old Dominion University, Norfolk, Virginia (2005).

Thesis: *Lower Extremity Motion Analysis Patterns During Various Foot-Landing Styles*

Bachelor of Science, Exercise Science & Physical Education, Universidade Lusofona de Humanidades e Tecnologias, Lisboa, Portugal (2001).

Professional Experience

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| 2015– | Associate Professor
Sports Medicine Assessment, Research & Testing (SMART) Laboratory
Division of Health and Human Performance
College of Education and Human Development
George Mason University |
| 2015– | Affiliate Professor
Department of Bioengineering
Volgenau School of Engineering |
| 2010–15 | Assistant Professor
Sports Medicine Assessment, Research & Testing (SMART) Laboratory
Division of Health and Human Performance
College of Education and Human Development
George Mason University |
| 2005–10 | Advanced Biomechanics and Kinesiology Instructor (EXSC 417W)
Department of Exercise Science, Sport, Physical Education, and Recreation, Old Dominion University, Norfolk, Virginia |

- 2006–08 Exercise Science Internship Supervisor, undergraduate and graduate students**
Department of Exercise Science, Sport, Physical Education, and Recreation, Old Dominion University, Norfolk, Virginia
- 2005–06 Exercise Physiology Instructor, Health Fitness Institute and Certification**
Centro de Estudos e Formacao de Actividades Desportivas, Lisbon, Portugal
- 2003–05 Anatomical Kinesiology and Human Anatomy, Teaching Assistant**
Clinical Exercise Testing, Lab assistant (EXSC 415)
Department of Exercise Science, Sport, Physical Education, and Recreation, Old Dominion University, Norfolk, Virginia
- 2001–03 Adjunct Faculty, University**
Escola Superior de Educacao Almeida Garrett, Lisbon, Portugal
- 2000–06 Physical Education Teacher, High School**
Escola Secundaria Augusto Cabrita, Barreiro, Portugal, August 2005–July 2006
Escola Basica Delfim Santos, Lisbon, Portugal, August 2002–July 2003
Escola Secundaria Fernao Mendes Pinto, Almada, Portugal, August 2001–July 2002
Escola Basica Padre Francisco Soares, Torres Vedras, Portugal, August 2000–July 2001

Research Assistant Laboratory Experience

- 2008–10 Research Assistant, Physical Therapy Motion Analysis Laboratory**
Department of Physical Therapy, College of Health Sciences, Old Dominion University, Norfolk, Virginia
- Developed Labview and MATLAB software for full integration of analog data
 - Assisted students and faculty with research projects
 - Assistant with the motion analysis equipment and research studies utilizing:
 - Bertec & AMTI force plates
 - Delsys wireless and wired EMG system
 - Noraxon wireless EMG
 - VICON hardware/software
 - Visual 3D software
 - Intersense accelerometers
 - Coulborn tremor system
- 2006–10 Research Assistant, Sports Medicine Research Laboratory / Motion Analysis Laboratory**
Department of Exercise Science, College of Education, Old Dominion University, Norfolk, Virginia
- Developed Labview and MATLAB software for full integration of analog data
 - Involved in studies using BTE Primus RS and BTE Evaluator (Strength), and Neurocom
 - Assisted master students and faculty with research projects
 - Assisted with motion analysis equipment and research studies utilizing:
 - Bertec & AMTI force plates
 - Delsys wireless and wired EMG system,
 - Noraxon wireless EMG
 - Intersense accelerometers
 - VICON hardware/software
 - Visual 3D software
 - Intersense accelerometers

- 2003–05 Research Assistant, Sports Medicine Research Laboratory**
Department of Exercise Science, College of Education, Old Dominion University, Norfolk, Virginia
- Responsible for the development of K2DS (Kinematic & Kinetic Data Simplification) Matlab Software
 - Assisted students and faculty with research projects
 - Assistant with the motion analysis equipment and research studies utilizing:
 - Bertec force plates
 - Delsys wireless EMG system
 - Flock of Birds/Motion Monitor
- 2003–05 Research Assistant, Human Performance Laboratory**
Department of Exercise Science, College of Education, Old Dominion University, Norfolk, Virginia
- Responsible for maintaining the department website, Sports Medicine Research Laboratory website, and Athletic Training Program website
 - Assisted faculty with research studies utilizing:
 - BodPod
 - Hydrostatic Weighting
 - Metabolic cart (VO₂ max)
 - Pulmonary function

Teaching

- 2010–** George Mason University (Fairfax, Virginia)
- Undergraduate*
- | | |
|----------|------------------------|
| PHED 450 | Physiology of Exercise |
| PRLS 450 | Research Methods |
| KINE 400 | Biomechanics |
- Graduate*
- | | |
|----------|--|
| EFHP 613 | Advanced Applied Biomechanics |
| EFHP 620 | Research Methods for Applied Kinesiology |
| EFHP 598 | Research in Health & Human Performance |
| EFHP 880 | Grant Writing |
| EFHP 815 | Measurement & Instrumentation |
| EFHP 825 | Data Analytics |
- 2006–08** Old Dominion University (Norfolk, Virginia)
- Undergraduate and graduate internship supervisor.
- 2004–08** Old Dominion University
- Undergraduate*
- | | |
|----------|---------------------------|
| EXSC 417 | Advanced Biomechanics |
| EXSC 415 | Advanced Exercise Testing |

Scholarship

Peer-Reviewed Published Articles (*Denotes mentorship of student. Student is 1st author)

1. *Kettlety, S., Lindsey, B., Eddo, O., Prebble, M., Caswell, S.V., & **Cortes, N.** (2019). Changes in Hip Mechanics during Gait Modification to Reduce Knee Abduction Moment. *J Biomech.* IF: 2.995
2. *Azevedo, A. M., Oliveira, R., Vaz, J. R., & **Cortes, N.** (2019). Oxford Foot Model kinematics in landings: a comparison between professional dancers and non-dancers. *J Sci Med Sport.* IF: 4.198
3. *Eddo, O., Lindsey, B., Caswell, S. V., Prebble, M., & **Cortes, N.** (2019). Unintended changes in contralateral limb as a result of gait modification. *J Appl Biomech.* IF: 1.392
4. *Lindsey, B., Eddo, O., Caswell, S. V., Prebble, M., & **Cortes, N.** (2019). Reductions in Peak Knee Abduction Moment in Three Previously Studied Gait Modification Strategies. *The Knee.* IF: 2.081
5. *Azevedo, A.M., Oliveira, R., Vaz, J. R., & **Cortes, N.** (2019) Foot modeling affects ankle sagittal plane kinematics during jump-landing. *J Biomech.* IF: 2.995
6. Fyock-Martin, M., **Cortes, N.**, & Martin, J. (2019) Gait Retraining with Real-Time Visual Feedback to Treat Patellofemoral Pain in Adult Recreational Runners. *J Sport Rehab.* IF: N/A
7. *Azevedo, A.M., Wei, Q., Oliveira, R., Vaz, J. R., & **Cortes, N.** (2019) Effect of Two Different Pose Estimation Approaches on Lower Extremity Biomechanics in Professional Dancers. *IEEE Engineering in Medicine and Biology*, 978-1-5386-1311-5:2947-2950. IF: N/A
8. *Pope, J., Helwig, K., Morrison, S., Estep, A., Caswell, S. V., Ambegaonkar, J., & **Cortes, N.** (2019). Multifactorial Exercise and Dance-Based Interventions are Effective in Reducing Falls Risk in Community Dwelling Older Adults: A Comparison Study. *Gait Posture*, 70(5): 370-375. IF: 2.347
9. *Kelshaw, P. M., Gould, T. E., Jesunathadas, M., **Cortes, N.**, Caswell, A., Edwards, E. D., & Caswell, S. V. (2019). Laboratory Performance Evaluation of Pristine and Used Headgear for Girls' Lacrosse. *J Appl Biomech*, 1-19. IF: 1.392
10. *Antoniak, G., Biswas, T., Sikdar, S., **Cortes, N.**, Chun, C., & Bhandawat, V. (2019). Generalized Model of Locomotion. *Int Comp Biol*, 59, E5-E5. IF: N/A
11. Caswell, S. V., Kelshaw, P., Lincoln, A. E., Hepburn, L., Dunn, R., & **Cortes, N.** (2019). Game-Related Impacts in High School Boys' Lacrosse. *Orthop J Sports Med*, 7(4): 2325967119835587. IF: N/A
12. Kerr, Z. Y., **Cortes, N.**, Ambegaonkar, J. P., Caswell, A. M., Prebble, M., Romm, K., & Caswell, S. V. (2019). The Epidemiology of Injuries in Middle School Football, 2015-2017: The Advancing Healthcare Initiatives for Underserved Students Project. *Am J Sports Med*, 47(4): 933-941. IF: 5.673
13. *Antoniak, G., Biswas, T., Sikdar, S., **Cortes, N.**, Chun, C., & Bhandawat, V. (2019). Spring-loaded inverted pendulum goes through two contraction-extension cycles during the single stance phase of walking. *bioRxiv*, 509687.
14. Barber Foss, K.D., Yuan, W., Diekfuss, J. A., Leach, J., Meehan, W., DiCesare, C. A., Solomon, G., Schneider, D. K., MacDonald, J., Dudley, J., **Cortes, N.**, Galloway, R., Halstead, M., Walker, G., & Myer,

- G. D. (2019). Relative head impact exposure and brain white matter alterations after a single season of competitive football: A pilot comparison of youth versus high school football. *Clin J Sports Med*. IF: 2.224
15. Kerr, Z. Y., **Cortes, N.**, Ambegaonkar, J. P., Caswell, A. M., Prebble, M., Hallsmith, K. R., & Caswell, S. V. (2018). The epidemiology of injuries in middle school football, 2015-2017: The ACHIEVES Project. *Am J Sports Med*. IF: 5.673
16. *Azevedo, A. M., Oliveira, R., Vaz, J. R., & **Cortes, N.** (2019). Professional dancers distinct biomechanical pattern during multidirectional landings. *Med Sc Sport Exerc*, 51(3):539-547 IF: 4.291
17. Ambegaonkar J.P., Pierce C, **Cortes N**, Marttinen R, Matto H, & Caswell SV (2018) Physical activity and enjoyment during dance focused physical education classes in middle school girls. *International Journal of Physical Education*. IF: N/A
18. Ambegaonkar, J., Shock, C., Caswell, S., **Cortes, N.**, Hansen-Honeycutt, J., & Wyon, M. (2018) Lower Extremity Horizontal Work But Not Vertical Power Predicts Lower Extremity Injury in Female Collegiate Dancers. *J Strength Cond Res*, 32(7): 2018–2024. IF: 2.060
19. Ambegaonkar, J., Caswell, S., & **Cortes, N.** (2018) Lower extremity horizontal work, but not vertical power or work predicts balance in female collegiate dancers. *J Danc Med Sci*, 22(2), 75-80. IF: N/A
20. *Kelshaw, P., **Cortes, N.**, Caswell, A., & Caswell, S. (2018) Isometric Cervical Muscle Strength Does Not Affect Head Kinematics in High School Boys' Lacrosse. *Int J Athl Ther Train*, 1-8. IF: N/A
21. *Popovic, T., Caswell, S. V., Benjaminse, A., Siragy, T., Ambegaonkar, J. P., & **Cortes, N.** (2018) Implicit video feedback produces positive changes in landing mechanics. *J Exp Orthop*, 5:12. IF: 0.807
22. Onate, J.A., Starkel, C., Clifton, D. R., Best, T.M., Borchers, J., Chaudhari, A., Comstock, R. D., **Cortes, N.**, Grooms, D. R., Hertel, J., Hewett, T. E., Miller, M. M., Pan, X., Schussler, E., Van Lunen, B. L. (2018) Normative Functional Performance Values in High School Athletes (The FPPE Project). *J Athl Train*, 53(1), 35-42. IF: 2.478
23. *Hallsmith, K., Parham, C., **Cortes, N.**, Caswell, A. M., Ferry, M., Ambegaonkar, J. P., Brenner J., & Caswell, S. V. (2018) School Teachers and Administrators Perceptions of Concussion Management and Implementation of Return-to-Learn Guidelines. *Journal of School Health*. IN PRESS. IF: 1.434
24. *Estep, A., Morrison, S., Caswell, S., Ambegaonkar, A., & **Cortes, N.** (2018) Walking and running variability as measured by discrete and non-linear methods. *Gait & Posture*, 60, 111-115. IF: 2.347
25. Ambegaonkar, J. P., Pierce, C., **Cortes, N.**, Marttinen, R., & Caswell, S. (2018). Physical activity and enjoyment during dance-focused physical education classes in middle school girls. *International Journal of Physical Education*, 55(4), 23–34. IF: N/A
26. Caswell, S.V., Lincoln, A.E., Hepburn, L., Higgins, M., Bowman, T., Stemmler, M., Kelshaw, P., & **Cortes, N.** (2017) Characterizing Head Impacts in Girls' High School Varsity Lacrosse Players. *Am J Sports Med*, 45(14), 3374-3381. IF: 5.673
27. Kerr, Z., **Cortes, N.**, Caswell, A., Ambegaonkar, J.P., Hallsmith, K. R., Milbert, F., & Caswell, S. V. (2017) Concussion rates in United States middle school athletes, 2015/16 school year. *Am J Prev Med*, 53(6), 914-918. IF: 4.527

28. *Greska, E. G., **Cortes, N.**, Ringleb, S., Van Lunen, B. L., & Onate, J. A. (2017) Biomechanical Leg Dominance is not Prevalent During a Cutting Task. *Scand J Sports Med*, 27(11), 1328-1336. IF: 3.331
29. **Cortes, N.**, Stone, H., Lincoln, A., Hepburn, L., Putukian, M., Myer, G., & Caswell, S. V. (2017) Video Analysis Verification of Head Impact Events Measured by Wearable Sensors. *Am J Sports Med*, 25(10), 2379–2387. IF: 5.673
30. *Eddo, O., Lindsey, B., Caswell, S. V., & **Cortes, N.** (2017) Current Evidence of Gait Modification with Real-time Biofeedback to Alter Kinetic, Temporospacial, and Function-Related Outcomes: A Review. *International Journal of Kinesiology and Sports Science*, 5(3), 35-55. IF: N/A
31. *Dallinga, J., Benjaminse, A., Gokeler, A., **Cortes, N.**, Otten, E., & Lemmink, K. (2017) Innovative video feedback on jump landing improves landing technique in males. *International Journal of Sports Medicine*, 38(2), 150-158. IF: N/A
32. Kollock, R., **Cortes, N.**, Greska, E., & Onate, J. (2016) Peak Torque as an Indicator of Rapid Torque Production during Screening. *J Sports Sciences*, 4, 257-264. IF: 2.142
33. Caswell, S. V., Ausborn, A., Ambegaonkar, J. P., Johnson, T., Johnson, D., **Cortes, N.** (2016) American Youth Football: Injury epidemiology, anthropometrics and physical performance. *Orthop J Sports Med*, 4(8), 2325967116662251. IF: N/A
34. Ambegaonkar, J.P., **Cortes, N.**, Caswell, S.V., Ambegaonkar, G.P., & Wyon, M. (2016) Lower extremity hypermobility, but not core muscle endurance influences balance in female collegiate dancers. *Int J Sports Phys Ther*, 11(2), 220-229. IF: 1.68
35. *James, J., Ambegaonkar, J.P., Caswell, S. V., Onate, J., & **Cortes, N.** (2016) Analyses of Landing Mechanics in Division I Athletes Using the Landing Error Scoring System. *Sports Health*, 8(2), 182-186. IF: 2.694
36. Caswell, S.V., **Cortes, N.**, Chabolla, M., Ambegaonkar, J.P. & Caswell, A.M. (2015) State-specific differences in school sports preparticipation physical evaluation policies. *Pediatrics*, 135(1), 26-32. IF: 5.705
37. Cordeiro, N., **Cortes, N.**, Fernandes, O., Diniz, A.D., & Pezarat-Correia, P. (2015). Dynamic Knee Stability and Ballistic Knee Movement after ACL Reconstruction: An Application on Instep Soccer Kick. *Knee Surg Sports Arthr Traum*, 23, 1100–1106. IF: 3.227
38. **Cortes, N.**, Porter, L.D., Ambegaonkar, J., & Caswell, S. (2014). Postural stability does not differ between female dancers vs. non-dancers who are at high risk for ACL injury. *Medical Problems of Performing Artists*, 29(4), 216-220. IF: 0.65
39. Ambegaonkar, J., Caswell, A., Kenworthy, J., **Cortes, N.** & Caswell, S. (2014). Lumbar Lordosis in Female Collegiate Dancers and Gymnasts. *Medical Problems of Performing Artists*, 29(4), 189-192. IF: 0.65
40. Sikdar, S., Wei, Q. & **Cortes, N.** (2014). Dynamic Ultrasound Imaging Applications to Quantify Musculoskeletal Function. *Exerc Sport Sci Rev*, 42(3), 126-135. IF: 4.259
41. Ambegaonkar, J. P., Mettinger, L. M., Caswell, S. V., Burt, A., & **Cortes, N.** (2014). Relationships between core endurance, hip strength, and balance in collegiate female athletes. *Int J Sports Phys Ther*, 9(5), 604-616. IF: 1.68

42. **Cortes, N.**, Onate, J.A., & Morrison, S. (2014). Differential Effects of Fatigue on Movement Variability. *Gait Posture*, 39(3), 888-893. IF: 2.347
43. **Cortes, N.**, Greska, E., Ambegaonkar, J.P., Kollock, R.O., Caswell, S.V., & Onate, J.A. (2014). Knee Kinematics is Altered Post-Fatigue During a Crossover Task. *Knee Surg Sports Arthr Traum.* 22(9), 2202-2208. IF: 3.227
44. Morrison, S., **Cortes, N.**, Newell, K., Silburn, P., & Keer, G. (2014). The Pattern of Coupling Dynamics between Postural Motion, Isotonic Hand Movements and Physiological Tremor. *Neuroscience Letters*, 580(19), 41-46. IF: 2.026
45. Caswell, S., York, M., Ambegaonkar, J., **Cortes, N.**, & Caswell, A. (2014). Neck Strengthening for Concussion Risk Reduction in Youth Sport. *Int J Athl Th Today*, 19(6), 22-27. IF: N/A
46. **Cortes, N.**, Greska, E.G., Kollock, R.O., Ambegaonkar, J., & Onate, J.A. (2013). Changes in Lower Extremity Biomechanics Due to a Short-Term Fatigue Protocol. *J Ath Train*, 48(3), 306-313. IF: 2.478
47. **Cortes, N.** & Onate, J.A. (2013). Clinical Assessment of Drop-Jump Landing for Determination of Risk for Knee Injury. *Int J Athl Th Today*, 18(3), 10-13. IF: N/A
48. *Eranki, A., **Cortes, N.**, Ferenčec, Z.G., & Siddhartha, S. (2013) A Novel Application of Musculoskeletal Ultrasound Imaging. *J Vis Experim*, 79, e50595. IF: 1.325
49. *Etnoyer, J., **Cortes, N.**, Van Lunen, B.L., Ringleb, S., & Onate, J.A. (2013). The Effect of Instruction on Jump-Landing Kinematics, In Collegiate Age Female Athletes Over Time. *J Athl Train*, 48(2), 161-171. IF: 2.478
50. *Eranki, A., **Cortes, N.**, & Sikdar, S. (2013). Dynamic Musculoskeletal Imaging using a USB-based Ultrasound Probe for Point-of-Care Applications. *Proc IEEE Point of Care Healthcare Technologies (PHT)*. 18-21. *Conf Proc IEEE Eng Med Biol Soc*
51. Ambegaonkar, J.P., Caswell, S.V., Winchester, J.B., Shimokochi, Y., **Cortes, N.** & Caswell, A.M. (2013) Balance Comparisons Between Female Dancers and Active Nondancers. *Research Quarterly for Exercise and Sport*, 84(1), 24-29. IF: 0.30
52. Morrison, S., **Cortes, N.**, Newell, K., Silburn, P., & Keer, G. (2013) Variability, Regularity, and Coupling Measures Distinguish PD Tremor from Voluntary 5 Hz Tremor. *Neuroscience Letters*, 534, 69-74. IF: 2.026
53. **Cortes, N.**, Quammen, D., Lucci, S., & Onate, J.A. (2012). A Functional Agility Short-Term Fatigue Protocol Changes Lower Extremity Mechanics. *J Sports Sciences*, 30(8), 797-805. IF: 2.142
54. **Cortes, N.**, Morrison, S., Van Lunen, B.L., & Onate, J.A. (2012). Landing Technique Affects Knee Loading and Position During Athletic Tasks. *J Sci Med Sport*, 15, 175-181. IF: 3.857
55. Ambegaonkar, J.P., Rickman, A. & **Cortes, N.** (2012) Core stability and injuries: implications for dancers. *Medical Problems of Performing Artists*. 27(3) 159-65. IF: 0.65
56. *Eranki, A., **Cortes, N.**, Ferencek, Kim, J. & Sikdar, S. (2012). Real-Time Measurement of Rectus Femoris Muscle Kinematics During Drop Jump Using Ultrasound Imaging: A Preliminary Study. *Conf Proc IEEE Eng Med Biol Soc*. 4851-4. *Conf Proc IEEE Eng Med Biol Soc*

57. *Quammen, D., **Cortes, N.**, Van Lunen, B.L., Lucci, S., Ringleb, S., & Onate, J.A. (2012) The effects of two different fatigue protocols on lower extremity motion patterns during a stop-jump task. *J Athl Train*, 47(1), 32-41. IF: 2.478
58. *Bowles, C., Ambegaonkar, J.P., & **Cortes N.** (2012) The Trend Towards Minimalism: Footwear for Distance Runners. *Int J Athl Th Today*, 17(6), 14-18. IF: N/A
59. *Grieco, C., **Cortes, N.**, Greska, E.G., Lucci, S., & Onate, J.A. (2012). Neuromuscular Training Program Improves VO₂peak and Running Economy in Division I Female Soccer Players. *J Strength Cond Res*, 26(9), 2570-6. IF: 2.060
60. *Greska, E.G., **Cortes, N.**, McCann, R., & Onate, J.A. (2012). A Feedback Inclusive Neuromuscular Training Program Alters Frontal Plane Kinematics. *J Strength Cond Res*, 26(6), 1609-19. IF: 2.060
61. **Cortes, N.**, Blount, E., Ringleb, S., & Onate, J.A. (2011). Soccer-Specific Video Simulation For Improving Movement Assessment. *Sports Biomechanics*, 10(1), 12–24. IF: 1.154
62. **Cortes, N.**, Onate, J.A., & Van Lunen, B.L. (2011). Pivot Task Increases Knee Frontal Plane Loading When Compared to Sidestep and Drop-Jump. *J Sports Sciences*, 29(1), 83-92. IF: 2.142
63. Ambegaonkar, J.P., Redmon, C.J., Winter, C., & **Cortes, N.**, Ambegaonkar, S.J., Thompson, B., & Guyer, S.M. (2011) Ankle stabilizers affect agility but not vertical jump or dynamic balance performance. *Foot and Ankle Specialists*, 4(6), 354-60. IF: N/A
64. VencesBrito, A.M., Ferreira, M.A.R., **Cortes, N.**, Fernandes, O., & Pezarat-Correia, P. (2011) Kinematic and Electromyographic analysis of a karate punch. *J Electromyography and Kinesiology*, 21, 1023-1029. IF: 2.074
65. *Lucci, S., **Cortes, N.**, Van Lunen, B.L., Quammen, D., Ringleb, S., & Onate, J.A. (2011). Knee and Hip Sagittal and Transverse Plane Changes After Two Fatigue Protocols. *J Sci Med Sport*, 14, 453-459. IF: 3.857
66. *McCann, R., **Cortes, N.**, Van Lunen, B.L., Greska, E., Ringleb, S., & Onate, J.A. (2011). Long-Term Neuromuscular Changes Following an Injury Prevention Program For ACL Injuries. *Int J Athl Th Today*, 16(4), 16-20. IF: N/A
67. Jones, M.T., Parker, B.M., & **Cortes, N.** (2011). The effect of whole body vibration training and conventional strength training on performance measures in female athletes. *J Strength Cond Res*, 25(9), 2434-2441. IF: 2.060
68. Van Lunen, B.L., **Cortes, N.**, Andrus, T.L., Walker, M.L., Pasquale, M., & Onate, J.A. (2011) Immediate Effects Of A Heel-Pain Orthosis And An Augmented Low-Dye Taping On Plantar Pressures And Pain In Subjects With Plantar Fasciitis. *Clin J Sports Med*, 21(6), 474-479. IF: 2.189
69. *Nordsiden, L., Van Lunen, B.L., Walker, M.L., **Cortes, N.**, Pasquale, M., & Onate, J.A. (2010). The Effect of Three Foot Pads on Plantar Pressure of Pes Planus Foot Type. *J Sport Rehab*, 19(1), 71-85. IF: 1.413
70. Onate, J.A., **Cortes, N.**, Welch, C.E., & Van Lunen, B.L. (2010). Expert vs Novice Inter-rater Reliability and Criterion Validity of the Landing Error Scoring System. *J Sports Rehab*, 19(1), 41-56. IF: 1.413
71. **Cortes, N.**, Onate, J.A., Abrantes, J., Gagen, L., Dowling, E., & Van Lunen, B.L. (2007). Effects of gender and foot-landing techniques on lower extremity kinematics during drop-jump landings. *J Appl Biomech*, 23(4), 289-299. IF: 1.053

Articles in Peer Review

1. Caswell, S., **Cortes, N.**, Mitchell, K., Liotta, L., & Petricoin, E. (2015). New Approaches for Concussion Biomarker Discovery and Implementation. *J Neurotrauma*.
2. Kiefer, A.W., Foss, K. D.B., Howell, D., Reches, A., Cortes, N., DiCesare, C., Thomas, S., Weiss, M., Smith, D., Myer, G.D. (2016) The association between head impact exposure in ice hockey and changes in 5 electrophysiological Brain Network Activation. *JAMA Neurology*.
3. **Cortes, N.**, Godinho, B., Cordeiro, N., Bruno, P.M., & Pezarat-Correia, P. (2016) A practice session enables earlier occurrence of peak torque during the testing session. *J Sports Sciences*.
4. Caswell, S. V., Prebble, M., Ambegaonker, J. P., Caswell, A.M., & **Cortes, N.** (2016) Descriptive epidemiology of injury in middle school students. *Injury Prevention*.
5. *Bishop B., Caswell, S. V., Kelshaw, P., Diao, G., Ambegaonkar, J. P., Atkins, R., Johnson, T., Johnson, D., & **Cortes, N.** (2016) Head and Neck Circumference Are Not Risk Factors for Game Related Concussions Among Youth American Football Players. *Orthopedic Journal Sports Medicine*.
6. Caswell, S.V., Lincoln, A.E., Hepburn, L., Higgins, M., Bowman, T., Stemmler, M., Kelshaw, P., & **Cortes, N.** (2016) Characterizing Head Impacts in Boys' High School Varsity Lacrosse Players. *Am J Sports Med*.

Chapters in Edited Books

1. Caswell, S., **Cortes, N.**, Mitchell, K., Liotta, L., & Petricoin, E. (2015). Development of Nanoparticle-Enabled Protein Biomarker Discovery: Implementation for Saliva-Based Traumatic Brain Injury Detection. In C. F. Streckfus (Ed), *Advances in Salivary Diagnostics* (pp. 121-129): Springer Berlin Heidelberg.
2. Onate, J. A., & **Cortes, N.** (2012). Gender Effect of Fatigue on Lower Extremity Kinematics and Kinetics During Athletic Tasks. In F. R. Noyes & S. D. Barber-Westin (Eds.), *ACL Injuries in the Female Athlete. Causes, Impacts, and Conditioning Programs* (pp. 221-234): Springer.

Peer-Reviewed Published Abstracts & Presentations

1. Lindsey, B. W., Eddo, O., Prebble, M., Azevedo, A. M., Caswell, S. V., & **Cortes, N.** (2019) Single-Parameter Gait Modifications Cause Involuntary Secondary Gait Changes. *Med Sci Sports Exerc*. American College of Sports Medicine Conference. Orlando, FL
2. Estep, A., Morrison, S., Caswell, S., & **Cortes, N.** (2019) Differences in Lower Extremity Kinematic Variability between Healthy Runners Classified as Low Mileage or High Mileage. *Med Sci Sports Exerc*. American College of Sports Medicine Conference. Orlando, FL
3. Prebble, M., Wei, Q., Eddo, O., Lindsey, B. W., Caswell, S. V., & **Cortes, N.** (2019) Preliminary Analysis: The Effects of Gait Interventions on Knee Joint Contact forces in Healthy Adults. *Med Sci Sports Exerc*. American College of Sports Medicine Conference. Orlando, FL

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160. **Cortes, N.**, Beato, P., Cardoso, J., & Ribeiro, C. (2001). Kinematics Analysis of Pole Vault During National Indoor Athletics Championships. International Conference of The Countries with Portuguese as Official Language. Lisbon, Portugal.

Grants

Funded

- 2019 **Co-Investigator, \$360,540 with Prince William County Public Schools**, “Middle School ACHIEVES (AdvanCing Healthcare Initiatives for undErserVED Students) Project. Principal-Investigator: S. V. Caswell, Sports Medicine, Assessment, Research & Testing Laboratory. CO-PI: J. Ambegaonkar, A. Caswell, AM.
- 2019 **Co-Investigator, \$182,491 with Virginia Department of Health**, Evaluating Concussion Return-to-Play and Return-to-Learn Policy Implementation in Virginia Public Schools. Phase II. Funded 2019. PI: S. Caswell. Co-Investigators: J. Ambegaonkar, A. Caswell.
- 2019 **Co-Investigator, \$94,000 with National Endowment for the Arts**, Effects of Different Arts Engagement Programs on Health-Related Quality of Life, Physical Performance, Cognition, Social Engagement, and Perceptions of Self in Older Adults. Funded 2019. PI: J. Ambegaonkar. Co-Investigators: S. Caswell.
- 2018 **Principal Investigator, \$23,579 with Walter Reed National Medical Center**, Rapid Prosthetic Training (RPT).
- 2019 **Co-Investigator, \$59,527 with Prince William County Police Department**, Athletic Training Public Safety Fellowship. Funded 2019. PI: J. Martin. Co-Investigators: S. Caswell, M. Fyock-Martin.
- 2018 **Co-Investigator, \$89,000 with Virginia Department of Health**, Evaluating Concussion Return-to-Play and Return-to-Learn Policy Implementation in Virginia Public Schools. Funded 2018. PI: S. Caswell. Co-Investigators: J. Ambegaonkar, A. Caswell.
- 2017 **Principal Investigator, \$210,000 with Potomac Health Foundation, POISED (Precision Outreach Intervention, Screening, Surveillance and Exercise for Falls Prevention)** Prince William. Funded 2016. Co-Investigators: S. Caswell, J. Ambegaonkar, and S. Morrison (Old Dominion University).
- 2017 **Co-Investigator, \$248,000 with Potomac Health Foundation, Middle School ACHIEVES**. Funded 2016. PI: S. Caswell. Co-Investigators: J. Ambegaonkar, A. Caswell.

- 2017 **Co-Investigator, \$34,990 with US Lacrosse Research Foundation, Continuation of the LAX-STICK Project.** Funded 2017. Principal Investigator: S. Caswell
- 2017 **Co-Investigator, \$10,000 with Novant Health UVA Health System, Physical Activity and Enjoyment in Dance and Physical Education Classes in Children.** Funded 2017. Principal Investigator: J. Ambegaonkar, Co-Investigator: S. Caswell
- 2016 **Co-Investigator, \$1,647,968 with NSF, MRI: Acquisition of a 3-T MRI for Integrative Brain-Body Imaging.** Principal Investigator: James Thompson. Co-Investigators: S. Caswell, C. Esposito-Smythers, et al.
- 2016 **Principal Investigator, \$216,000 with Potomac Health Foundation, POISED (Precision Outreach Intervention, Screening, Surveillance and Exercise for Falls Prevention)** Prince William. Funded 2016. Co-Investigators: S. Caswell, J. Ambegaonkar, and S. Morrison (Old Dominion University).
- 2016 **Co-Investigator, \$250,000 with Potomac Health Foundation, Middle School ACHIEVES.** Funded 2016. PI: S. Caswell. Co-Investigators: J. Ambegaonkar, A. Caswell.
- 2016 **Co-Principal Investigator, \$28,479 with US Lacrosse, Video Analysis and Headgear Evaluation: Phase III.** Co-Principal Investigator: Shane Caswell. Funded March 2016.
- 2015 **Principal Investigator, \$248,000 with Potomac Health Foundation, POISED (Precision Outreach Intervention, Screening, Surveillance and Exercise for Falls Prevention)** Prince William. Funded 2015. Co-Investigators: S. Caswell, J. Ambegaonkar, and S. Morrison (Old Dominion University).
- 2015 **Co-Investigator, \$250,000 with Potomac Health Foundation, Middle School ACHIEVES.** Funded 2015. PI: S. Caswell. Co-Investigators: J. Ambegaonkar, A. Caswell.
- 2015 **Co-Principal Investigator, \$24,000 with US Lacrosse: Video Analysis and Head Gear Evaluation: Phase II.** Principal Investigator: S. Caswell. Funded Summer 2015.
- 2015 **Co-Investigator, \$50,000 with INOVA Healthcare.** Development and Use of Clinical Proteomic and Nanotechnologies to identify and Validate Markers for Acute Traumatic Brain Injury in Biofluids: Detection, Monitoring and Convalescence. Principal Investigator: Petricoin. Co-Investigator: S Caswell.
- 2014 **Co-Principal Investigator, \$28,000 with US Lacrosse: Video Analysis and Head Gear Evaluation: Phase I.** Principal Investigator: S. Caswell. Funded Summer 2014.
- 2012 **Co-Investigator, \$1,952,090 with National Institute of Arthritis and Musculoskeletal and Skin Diseases (1R01AR062578-01A1): Functional Evaluation to Predict Lower Extremity Musculoskeletal Injury.** (PI: Onate, Co-Investigators: T Best, A Chaudhari, T Hewett, JM Borchers, and X Pan (The Ohio State University), J Hertel (University of Virginia), BL VanLunen (Old Dominion University), RD Comstock (Nationwide Children's Hospital)). Awarded December 2012.
- 2013 **Principal Investigator, \$95,000 with The State Council of Higher Education for Virginia Higher Education Equipment Trust Fund.** "Sports Medicine Assessment, Research & Testing Laboratory Equipment Proposal", Caswell SV. Awarded March 2013.

- 2012 **Principal Investigator, \$5,000 with College of Education and Human Development Seed Grant:** A preliminary study to understand early development of knee osteoarthritis in anterior cruciate ligament reconstructed individuals. Awarded December 2012.
- 2012 **Principal Investigator, \$100,000 with The State Council of Higher Education for Virginia Higher Education Equipment Trust Fund.** “Sports Medicine Assessment, Research & Testing Laboratory Equipment Proposal”, Caswell SV. Awarded February 2012.
- 2012 **Principal Investigator, \$50,000 with The State Council of Higher Education for Virginia Higher Education Equipment Trust Fund.** “Sports Medicine Assessment, Research & Testing Laboratory Equipment Proposal”, Caswell SV. Awarded February 2012.
- 2011 **Principal Investigator, \$5,000 with Tenure-Track Faculty Summer Research Grant,** George Mason University. The effects of a Functional Agility Short-Term Fatigue Protocol on Lower Extremity Biomechanics. Awarded February 2011.
- 2009 **Key Personnel, \$100,000 with National Institutes of Health:** RFA-AT-08-001: Tools and Technologies to Assess Manual Therapies. Project Title: “Objective Assessment Instrumentation for Manual Therapy Techniques”. Diekrager S, Van Lunen, B.L., Pasquale, M., Cortes, N. et al.: Submitted February 2008, Awarded February 2009. (Reference Number: 1 R43 AT004941-01). (PI: Diekrager).
- 2008 **Co-Investigator, \$1,000 with National Athletic Trainers' Association Research and Education Foundation.** Project Title: “Effects of a Heel-Pain and an Augmented Low-Dye Taping on Plantar Pressures and Pain in Subjects With Plantar Fasciitis”. Andrus T, Van Lunen, B.L., Cortes, N., Onate, J.A. Submitted April 2008, Awarded June 2008. (PI: Andrus).
- 2006 **Principal Investigator, Pre-Doctoral Training (2006-2010), Science and Technology Foundation,** Lisbon, Portugal (SFRH / BD / 28046 / 2006). Equivalent to **NIH F31 Training Grant.** Submitted November 2005. Awarded August 2006.

Submitted

- 2019 **Principal Investigator, \$542,769 with Arthritis Foundation,** Comparison of the Effects of Gait Modification Strategies on Knee Adduction Moment in Patients with Medial Knee Osteoarthritis. Co-PI: Lance Liotta, Shane Caswell, Alessandra Luchini, Virginia Espina, Amanda Haymond.
- 2019 **Co-Principal Investigator, \$1,500,000 with National Science Foundation,** Automatic Optimization of Personalized Exergames for Achieving Body Fitness Goals. PI: Craig Yu.
- 2018 **Co-Principal Investigator, \$749,012 with National Science Foundation,** SCH:INT: Crowd-Sourcing Athlete Motion Data for Data Analytics for Sports Injury Prevention. PI: Lance Sherry
- 2018 **Co-Investigator, \$182,491 with Virginia Department of Health/ Center for Disease Control and Prevention,** Evaluating Concussion Return-to-Play and Return-to-Learn Policy Implementation in Virginia Public Schools -Phase II. PI: Shane Caswell

- 2018 **Co-Investigator, \$3,000,000 with NSF NRT-HDR: NRT-HDR:** Transdisciplinary Graduate Training Program in Adaptive Systems of Brain-Body Interactions, PI: S. Sikdar
- 2018 **Co-Investigator, \$300,000 with Virginia Biosciences Health Research Corporation,** A Non-Invasive, Soft Electronic Wireless Knee Monitor for Rehabilitation of Osteoarthritis. PI: L. Liotta, Co-Investigators: S. Morrison, A. Luchini
- 2018 **Co-Investigator, \$15,000 with Phase II,** Validating Smart Sleeve Technology for Injury Rehabilitation. PI: Lance Liotta.
- 2018 **Co-Investigator, \$34,990 with US Lacrosse Research Foundation, Continuation of the LAX-STICK Project.** Continuation 2018. Principal Investigator: S. Caswell
- 2017 **Co-Investigator, \$432,000 with Arthritis Foundation,** Targeting the vicious cytokine feedback between inflammatory cells and joint tissues to treat Post-Traumatic Osteoarthritis (PTOA). PI: Alessandra Luchini.
- 2016 **Co-Investigator, \$399,992 with NSF,** Broadening Interdisciplinary Research and Education Through a Collaborative Study of Dance. PI: Q. Wei, Co-Investigators: W. Joiner, E. Price, S. Shields, and J. Thompson
- 2106 **Co-Principal Investigator, \$250,000 with NOCSAE,** Effectiveness of Protective Headgear in Girls' Youth and High School Lacrosse. PI: S. Caswell, Co-Investigators: A. Lincoln, L. Hepburn.
- 2016 **Principal Investigator, \$304,000 with GE/NBA,** Integrative Assessment of Patellar Tendinopathy: Clinical, Functional and Ultrasound Imaging During Static and Dynamic Task. Co-Investigators: S. Caswell, S. Sikdar.
- 2015 **Principal Investigator, \$451,336 with Arthritis Foundation:** A Novel Multimodal Assessment of Dynamic Muscle Function: Implications for Osteoarthritis. Submitted June 2015. Co-Investigators: S. Sikdar, S. Caswell, & J. Ambegaonkar.
- 2014 **Principal Investigator, \$203,713 with National Institute of Arthritis and Musculoskeletal and Skin Diseases R03:** A Novel Multimodal Assessment of Dynamic Muscle Function. Submitted March 20 2014. Co-Investigators: S Sikdar.
- 2013 **Co-Investigator, \$299,879 with GE National Football League Head Challenge I:** Development and Implementation of a Novel Salivary Biomarker Fingerprint and POC Nanotechnology Method for Sports Related Traumatic Brain Injury Diagnosis. Submitted July 2013. Principal Investigator: Shane Caswell, Co-Investigators: Jatin Ambegaonkar, Emanuel Petrocoin, Lance Liotta.
- 2013 **Principal Investigator, \$433,323 with National Institute of Arthritis and Musculoskeletal and Skin Diseases R15:** Neuromechanical and Ultrasound Imaging Model of the Knee for Early Onset of Osteoarthritis. Submitted February 25 2013. Co-Investigators: SV Caswell, JP Ambegaonkar, S Siddhartha, JJ Kim (Northern Orthopaedic Associates), JA Onate (The Ohio State University).
- 2013 **Principal Investigator, \$100,000 with Jeffress Trust Award: Modeling the Development of Early Onset of Knee Osteoarthritis.** Submitted January 14 2013. Co-Investigators: SV Caswell, JP Ambegaonkar, and S Siddhartha.

- 2013 **Co-Investigator, \$1,000,000 with National Science Foundation: Mobile Origination of Virtual Exoskeleton Robotics (MOVERS).** Submitted March 2013. Principal Investigator: Len Annetta, Co-Investigators: Siddhartha Sikdar.
- 2013 **Co-Investigator, \$2,972,063 with National Science Foundation: Encouraging Active Gaming to Learn Science.** Submitted January 2013. Principal Investigator: Jatin Ambegaonkar, Co-Investigators: Len Annetta, Shane Caswell, Matthew Ferry.
- 2012 **Co-Investigator, \$1,999,993 with National Science Foundation: Encouraging STEM Careers via Innovative Nutrition (EINSTEIN).** Submitted November 2012. Principal Investigator: Jatin Ambegaonkar, Co-Investigators: Len Annetta, Shane Caswell, Matthew Ferry.
- 2012 **Co-Investigator, \$2,632,122 with Centers for Disease Control and Prevention: A longitudinal characterization of the physical, neuropsychological, and educational consequences of mTBI in children.** Submitted May 2 2012. (PI: Caswell, Co-Investigators: JP Ambegaonkar, L Annetta, V Ikonomidou, J Almqist (Fairfax County Public Schools), S Ross (Family Practice Physician), R Dunn & A Lincoln (MedStar Institute)).
- 2012 **Co-Investigator, \$200,000 with Commonwealth Health Research Board: Longer Term Benefits of Balance Training on Falls in Older Adults.** Submitted October 2012. (PI: Morrison, Co-Investigators; S Colberg (Old Dominion University)).
- 2012 **Co-Investigator, \$263,000 with Potomac Health Foundation: Dance Reduces Injury Risk in Older Adults (DESIRE) Project.** Submitted January 2012. (PI: Ambegaonkar, Co-Investigators: SV Caswell, AA Caswell).
- 2011 **Principal Investigator, \$200,000 with Commonwealth Health Research Board: Long-term effects of a lower extremity injury prevention program.** Submitted October 2011. (Co-Investigators: SV Caswell, JP Ambegaonkar, S Morrison (Old Dominion University)).
- 2011 **Principal Investigator, \$425,870 with National Institute of Arthritis and Musculoskeletal and Skin Diseases R15 AREA mechanism (1R15AR062297-01): ACL Injury Mechanisms: A Combined Lower Extremity Modeling Approach.** Submitted February 25, 2011. (Co-Investigators: SV Caswell, JP Ambegaonkar, S Siddhartha, V Ikonomidou, J Chen, H Wechsler)
- 2011 **Co-Investigator, \$200,000 with Commonwealth Health Research Board: Effect of Balance Training on Posture, Falls, and Daily Activity in Older Adults.** Submitted October 2011. (PI: Morrison, Co-Investigators; S Colberg (Old Dominion University)).
- 2011 **Consultant, \$150,000 with Portuguese Foundation for Science and Technology: Basketball players' inter-joint coordination during the jump.** Submitted February 2011.
- 2010 **Co-Investigator, \$200,000 with Commonwealth Health Research Board: Identifying Critical Factors Associated with Falls Risk in Aging and Type 2 Diabetes.** Submitted October 2010. (PI: Morrison, Co-Investigators: S Colberg, A Vinik).
- 2010 **Principal Investigator, \$100,000 with National Football Association Charities: The Effects of an 8-Week Fatigue Based Injury Prevention Program on Lower Extremity Biomechanics.** Submitted June 2010.
- 2010 **Principal Investigator, \$200,000 with Commonwealth Health Research Board: Prevention of**

Lower Extremity Injuries: A novel approach using a fatigue based injury prevention program. Submitted October 2010.

- 2010 Co-Investigator, \$200,000 with Commonwealth Health Research Board:** Ankle Injury Disablement Model Outcomes. Submitted October 2010. (PI: Van Lunen).
- 2009 Co-investigator, \$1,000,000 with National Institutes of Health:** RFA-AT-09-003: Tools and Technologies to Assess Manual Therapies. Project Title: “Objective Assessment Instrumentation for Manual Therapy Techniques – Phase II”. Diekrager S, Van Lunen, B.L., Pasquale, M., **Cortes, N.** et al.: Submitted 2009. (PI: Diekrager).
- 2009 Principal Investigator, \$2,500 with American Society of Biomechanics:** Students Aid-in Program – “Lower Extremity Biomechanical Evaluation During Various Foot Landing Patterns and Athletic Tasks in Female Collegiate Soccer Athletes”. Cortes, N. (Submitted February 2008).

Mentorship / Service

PhD Students

- Current Lauren Biscardi (Chair)**
- Current Navid Goodosi (Chair)**
- Current Stuart McCrory (Chair)**
- Current Bryndan Lindsey (Chair)**
- Current Matthew Prebble (Chair)**
- Current Trish Kelshaw (Committee Member)**
- 2019 Oladipo Eddo (Chair):** Gait Modifications To Reduce Lower Extremity Joint Load: A Review and Investigation Into Unintended Consequences
- 2019 Ana Azevedo (Chair):** Dancers’ Landing Strategies – Na Experimental and Computational Approach
- 2018 Amanda Estep (Chair):** Effect of a Prolonged Run on Lower Extremity Strength & Kinematic Variability
- 2015 Anne Benjaminse (Committee Member):** Motor Learning in ACL Injury Prevention.
- 2012 Eric Greska (Committee Member):** The influence of interlimb differences on anterior cruciate ligament injury risk factors in female collegiate soccer athletes.

Master Students

- 2020 Jaime Ludwick**
- 2019 Kate Marden:** Falls Prevention in Older Adults

- 2019 **Sarah Kettlety:** Changes in Hip Mechanics During Gait Modification to Reduce Knee Abduction Moment
- 2018 **Kathryn Helwig:** Multifactorial Exercise and Dance-Based Interventions are Effective in Reducing Falls Risk in Community Dwelling Older Adults: A Comparison Study
- 2018 **Brittany Jacobs:** Differences in Hip Strength in a Healthy Adult Population After a Prolonged Run
- 2017 **Bryndan Lindsey:** Gait Modifications with real-time biofeedback: A Systematic Review and Meta Analysis
- 2016 **Tijana Popovic:** Implicit and explicit video feedback instruction do not alter landing mechanics in a drop-jump: a randomized controlled trial
- 2016 **Patricia Kelshaw:** Isometric Cervical Neck Strength Does Not Affect Head Impact Kinematics in High School
- 2016 **Hannah Stone:** Characterizing Head Impact in High School Girls' Lacrosse
- 2015 **Joan James:** Analyses of Landing Mechanics in Division I Athletes using the Landing Error Scoring System (LESS)
- 2015 **Tarique Siragy:** Pilot Study: Reducing Implicit Video Feedback Frequency does not Alter Jump-Landing Mechanics
- 2015 **Megan Born:** Kinesio Taping® effects on anterior shoulder muscle activation and strength in Division I upper extremity dominant athletes
- 2015 **Rachel Kazman:** Head impact exposure in youth football: a biomechanical analysis
- 2014 **Oladipo Eddo:** Dynamic muscle function is inversely related with knee joint moment during gait
- 2014 **Amanda Cary:** Self-esteem and self-efficacy are not related to body fat percentage in depressed overweight adolescents
- 2014 **Larissa Porter:** Postural stability does not differ among female sports with high-risk of ACL injury
- 2013 **Andi Burt:** Core Strength Endurance Is Related To Neuromuscular Control During Trunk Perturbations In Collegiate Female Athletes
- 2013 **Lindsey Cosgray:** Relationships Among Core Endurance, Hip Strength, and Balance in Collegiate
- 2013 **Jeane Ryder:** Relationship of head and neck circumference and concussion among youth American football players
- 2013 **Ashley Ausborn:** Epidemiology of Youth Sport Injury in an American Youth Football League

- 2011 **Julie Bamberg:** Fatigue effects in lower extremity biomechanics during unanticipated sidestep cutting in young adolescent lacrosse athletes.
- 2011 **Crystal Sullivan:** The effect of maturation on hip and knee kinetics and kinematics during an unanticipated sidestep cutting task in male youth lacrosse players.
- 2011 **J'nai Pittman:** Plantar pressure distribution differences in physically active individuals with and without functional ankle instability during a side cut.
- 2010 **David Quammen:** The Effects of Two Different Fatigue Protocols on Lower Extremity Kinematics and Kinetics During an Unanticipated Running Stop-Jump Task
- 2010 **Ryan McCann:** The Effects of an Anterior Cruciate Ligament Prevention Program and Retention Period on Lower Extremity Biomechanics
- 2010 **Shawn Lucci:** The Effects of Two Types of Fatigue on an Unanticipated side-step cutting task as measured by kinematic and kinetic variables
- 2009 **Jena Etnoyer:** The Effect of Instruction on Jump-Landing Kinematics in Collegiate Age Female Athletes Over Time
- 2009 **Jeffery Smith:** Gender Effects on Hip and Ankle Kinematics During Unanticipated Athletic Tasks and Landing Techniques
- 2009 **Kristen Phillips:** The Effects of Isolated Hamstring Fatigue on Jump Landing in Healthy Recreational Athletes
- 2009 **Tracy Andrus:** Immediate Effects of a Heel-Pain Orthotic and an Augmented Low-Dye Taping on Plantar Pressures and Pain in Subjects with Plantar Fasciitis
- 2009 **Lacey Nordsiden:** The effect of three-foot orthoses on plantar pressure under the first metatarsophalangeal joint of pes planus foot type during standing and slow running
- 2007 **Mary Joos:** The effect of instruction on jump-landing motion patterns and impact forces.
- 2007 **Lacey Nordsiden:** The effect of three foot orthoses on plantar pressure under the first metatarsophalangeal joint of pes planus foot type during standing and slow running.

Undergraduate Research Mentorship

David Hollinger, Undergraduate Research Scholars Program – Summer Intensive Program (Summer 2017)

Sumin Chun, Undergraduate Research Scholars Program – Summer Intensive Program (Summer 2014)

Brad Boeji, Undergraduate Research Scholars Program (Spring 2014)

Casey Wilkison, Undergraduate Research Scholars Program (2013)

Christian Asinero, Research Assistant (2011-2013)

Cara Cheetham, Research Assistant (2011-2013)

Oladipo Eddo, Research Assistant (2010-2012)

Charles Updegrove, Research Assistant (2011)

Sarah Frye, Research Assistant (2011)

Mary Chenett, Research Assistant (2011)

Cori Burkholder, Research Assistant (2008-2010)

Chad Aldridge, Research Assistant (2007-2010)

High School Research Mentorship

Heena Shah & Alicia Harris, Governor's School @ Innovation Park High School Student (2014-2015).

Jennifer Lee, Aspiring Scientists Summer Internship Program (Summer 2014)

Kendall Dalkiewicz, Governor's School @ Innovation Park High School Student (2013-2014). *Dynamic Muscle Function Adversely Altered During Gait in Patients with Knee Osteoarthritis*, was **awarded 1st prize** in the highly competitive Regional Science and Engineering Fair, in the category of “Health & Medicine”

Kent Komine, Aspiring Scientists Summer Internship (Summer 2013)

Lisa Junta, Thomas Jefferson High School (Spring 2011)

University Committees:

- Tenure Track Annual Review Committee, College of Education and Human Development, 2019 –
- Faculty Evaluation Committee, School of Recreation Health & Tourism, 2015 – 2018
- Undergraduate Kinesiology Program Committee, 2010 –
- Exercise, Fitness and Health Promotion Master's Program Curriculum Committee, 2010 –
- School of Recreation, Health & Tourism Curriculum Committee, Spring 2014
- Faculty Grievance Committee, 2012-2013
- Vice President for Research, George Mason University Search Committee, 2015

Journal Reviewer

- *American Journal of Sports Medicine*, 2012 –

- *Asian Journal of Sports Medicine*, 2011 –
- *BMC Musculoskeletal Disorders*, 2013 –
- *International Journal of Athletic Therapy & Training*, 2014 –
- *Journal of Athletic Training*, 2009 –
- *Journal of Applied Biomechanics*, 2008 –
- *Journal of Science and Medicine in Sport*, 2011 –
- *Journal of Sports Sciences*, 2010 –
- *Knee Surgery, Sports Traumatology, Arthroscopy*, 2014 –
- *Medicine and Science in Sports and Exercise*, 2011 –
- *Physical Therapy In Sport*, 2014 –
- *PLOS One*, 2013 –
- *Scandinavian Journal of Medicine and Science in Sports*, 2011 –
- *Sports Health*, 2014 –
- *Sports Medicine*, 2012 –

Publisher Reviewer

- Lippincott Williams & Wilkins, 2012–

Conference Reviewer:

- International Congress on Sports Sciences Research and Technological Support, 2013 –

Grant Reviewer

- National Institute of Health – Early Career Reviewer
- Invited Grant Reviewer for Congressionally Directed Medical Research Programs, 2011– 2015
- George Mason University Summer Grant Reviewer, 2012 –

Invited Lectures

- Invited Guest Lecture to the Bioengineering Department within the School of Engineering, November 2012.

Invited Non-Peer Reviewed Articles

- Ambegaonkar, J. P., Cortes, N., & Ambegaonkar, S. (2012) Ankle Brace Tape Review. *Lower Extremity Review*

Professional Memberships

- American College of Sports Medicine (ACSM), 2005–
- American Society of Biomechanics (ASB), 2005–
- International Society of Biomechanics (ISB), 2005–
- National Athletic Training Association (NATA), 2005–
- International Society of Biomechanics in Sports (ISBS), 2001–
- Society of Neuroscience, 2010–

Honors & Awards

- **Winner**, GMU Emerging Researcher/Scholar/Creator Award. October 2016
- **Winner**, CEHD Scholarly Award of the Year. George Mason University. May 2014
- **University Nominee**, SCHEV Outstanding Faculty Award – Rising Star Category. March 2014.
- **Winner**, OSCAR Mentor of the Year. George Mason University. March 2013.
- **University Finalist**, SCHEV Outstanding Faculty Award – Rising Star Category. March 2013.
- **Finalist**, OSCAR Mentor of the Year. George Mason University. March 2012.
- **Finalist**, Advisor of the Year. George Mason University. March 2012.
- **Best Presentation Award**, American Society of Biomechanics, Southeast Conference. April 2007.
- **Honorable Mention Award**, Research Expo 2007. Old Dominion University. April 2007.
- **Graduate Academic Excellence Award**, Exercise Science and Wellness, May 2006.
- **Graduate Student Award**, Old Dominion University Darden College of Education, May 2004.