CURRICULUM VITAE
ALICIA M MONTALVO

EDUCATION

Degree	Institution	Field	Dates
Master of Public Health	University of Arizona Tucson, AZ	Applied Epidemiology	August 2022
Doctorate of Philosophy	The Pennsylvania State University University Park, PA	Kinesiology	December 2015
Master of Science	Florida International University Miami, FL	Athletic Training	May 2011
Bachelor of Arts	University of Pennsylvania Philadelphia, PA	Health & Society	December 2005

FULL-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
Arizona State University Phoenix, AZ	Clinical Associate Professor	Movement Sciences	July 2024 – Present
Arizona State University Phoenix, AZ	Assistant Teaching Professor	Movement Sciences	July 2019 – Present
Florida International University, Miami, FL	Assistant Professor (tenure-earning)	Athletic Training	Aug. 2016 – July 2019
Florida International University, Miami, FL	Assistant Professor (nontenure-earning)	Athletic Training	Aug. 2013 – Aug. 2016

ADMINISTRATIVE EXPERIENCE

Institution	Rank	Dates
Arizona State University Phoenix, AZ	Associate Director of Sport Partnerships	July 2026 – Present

PART-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
The Pennsylvania State University University Park, PA	Teaching Assistant	Statistics	Jan. 2013 – May 2013
The Pennsylvania State University University Park, PA	Teaching Assistant	Athletic Training	Jan. 2013 – May 2013
The Pennsylvania State University University Park, PA	Teaching Assistant	Anatomy	Aug. 2012 – May 2013

The Pennsylvania State University University Park, PA	Clinical Instructor	Athletic Training	Aug. 2011 – May 2013

SPECIAL APPOINTMENTS

Institution	Title	Dates
Emory Sports Performance and Research Center Flowery Branch, GA	Research Fellow	Feb. 2023 – Present

INTERNSHIP

Site	Site Supervisor	Field	Dates
University of North Carolina/Remote	Dr. Zachary Y. Kerr	MPH/Injury Epidemiology	May 2021 – August 2022

NON-ACADEMIC EXPERIENCE

Place of Employment	Title	Dates
Penn State Sports Camps University Park, PA	Sports Health Technician	June 2013 – Aug. 2013
Penn State Sports Camps University Park, PA	Sports Health Technician	June 2012 – Aug. 2012
Penn State University Athletic Conference University Park, PA	Certified Athletic Trainer	Aug. 2011 – May 2013
Penn State Recreation Sports University Park, PA	Certified Athletic Trainer	Aug. 2011 – May 2013

PROFESSIONAL CERTIFICATIONS/LICENSES

Virtual Coaching	National Academy of Sports Medicine	July 2021
Corrective Exercise Specialist	National Academy of Sports Medicine	July 2020
USA Weightlifting	Level 1	June 2020
Association of College and University Educators	ACUE-credentialed	2019 – 2020
Licensed Athletic Trainer	Arizona Board of Athletic Training #ATR-009461	2022 - Present
	Florida Department of Health Board of Athletic Training #AL 3598	2013 – 2019
USA Triathlon	Level 1	June 2011
Certified Athletic Trainer	National Athletic Trainers' Association Board of Certification #2000006644	2011 - Present
Certified Strength and Conditioning Specialist	National Strength & Conditioning Association	2011 - Present
Basic Life Support	American Red Cross	Renewal every 2 years

PUBLICATIONS IN DISCIPLINE

Articles – Peer Reviewed

1. **Montalvo, A.M.,** Kerr, Z.Y., Yeargin, S., Grundstein, A.J., & Scarneo-Miller, S.E. Differences in athletic trainers' environmental monitoring heat safety policy adoption rates by heat safety region. International Journal of Athletic Training and Therapy. In press.
2. Hussain, Z.B., Petit, C.B., McPherson, A.L., Pradip, K., Petushek, E.J., White, M.S., Xerogeanes, J.W., Lamplot, J.D., Myer, G.D., & **Montalvo, A.M.** (2026). Return-to-Sport in Young Patients after Bone-Patellar Tendon-Bone, Hamstring Tendon, and Quadriceps Tendon Autograft Anterior Cruciate Ligament Reconstruction: Systematic Review and Meta-Analysis. Journal of Athletic Training. Epub ahead of print.

3. Petit, C.B., Hussain, Z.B., Kember, L., Lloyd, R., McPherson, A.L., Pradip, K., Petushek, E.J., White, M.S., Xerogeanes, J.W., Lamplot, J.D., Myer, G.D., & **Montalvo, A.M.** (2026). Autograft choice does not affect risk of contralateral ACL tear in patients 25 years old and younger: A systematic review and meta-analysis. American Journal of Sports Medicine. Epub ahead of print.
4. Petit, C.B., Hussain, Z.B., Read, P.J., McPherson, A.L., Pradip, K., Petushek, E.J., White, M.S., Xerogeanes, J.W., Lamplot, J.D., Myer, G.D., & **Montalvo, A.M.** (2026). Graft failure rates in bone–patellar tendon–bone, hamstring, and quadriceps tendon autografts in patients younger than 25 years: A meta-analysis. American Journal of Sports Medicine. Epub ahead of print.
5. Russin, N.H., Robertson, C., & **Montalvo, A.M.** (2026). Upper crossed syndrome in the workplace: A narrative review with clinical recommendations for non-pharmacologic management. International Journal of Environmental Research and Public Health, 23(1), 120.
6. Piekarski, M., Kreiswirth, E., Barber Foss, K., Jimenez, M.L., Myer, G.D., & **Montalvo, A.M.** (2026). Knee injury in competitive Brazilian Jiu Jitsu athletes: Implications for training. Sports Health. Epub ahead of print.
7. Norman, D., Terrain, L., Novosel, J., Guzman, A., **Montalvo, A. M.,** Myer, G. D., & Petushek, E. (2025). Anterior Cruciate Ligament Injury Incidence Across Sex, Sport, and Competition Level: A Systematic Review and Meta-Analysis. Journal of Athletic Training, Epub ahead of print.
8. Grundstein, A. J., Yeargin, S. W., Cooper, E. R., Cargile, L., Clark, J., Lopez, R. M., Miller, K.C., **Montalvo, A.M.,** Scarneo-Miller, S. & Stearns, R. L. (2025). Evaluating heat risk: Comparing on-site WBGT measurements versus smartphone application estimates. GeoHealth, 9(3):e2025GH001347.
9. Arboix-Alió, J., Peralta-Geis, M., **Montalvo, A. M.,** & Fort-Vanmeerhaeghe, A. (2025). The Relationship between Change-of-Direction Performance Indicators and Inter-Limb Asymmetries in Elite Youth Female Basketball Players. Journal of Human Kinetics, 96:235-246.
10. Tabbaa, A., Atkins, M., **Montalvo, A.M**., Petit, C.B., White, M.S., Petushek, E.J., Diekfuss, J.A., Myer, G.D., & Lamplot, J.D. (2025) Lower ACLR Failure Rates in Bone-Soft Tissue vs Soft-Tissue Only Allografts in Adults: A Systematic Review and Meta-Analysis. American Journal of Sports Medicine, 0(0).
11. Petit, C. B., Slone, H. S., Diekfuss, J. A., Barber Foss, K. D., Warren, S. M., **Montalvo, A. M.**, Lamplot, J.D., Myer, G.D., & Xerogeanes, J. W. (2024). Sex-Specific Outcomes After Anterior Cruciate Ligament Reconstruction Using an All–Soft Tissue Quadriceps Tendon Autograft in a Young Active Population. American Journal of Sports Medicine, 52(10):2450-2455.
12. Harris, N., Mulkey, E., Reza, S., Smitley, M., & **Montalvo, A.M.** (2024). Post-Pandemic Changes to Employment and Employment Satisfaction in Early Career and Career Advancing Athletic Trainers. Journal of Athletic Training, 59(12):1239–1252.
13. **Montalvo, A.M.,** Wallace, J., Nedimyer, A.K., Chandran, A., Kossman, M.K., Gildner, P., ... & Kerr, Z.Y. (2023). Does the association between concussion measures and social context factors differ in Black and white parents? Journal of Athletic Training, 59(4):363–372.
14. Espasa-Labrador, J., Fort-Vanmeerhaeghe, A., **Montalvo, A.M.**, Carrasco-Marginet, M., Irurtia, A. & Calleja-González, J. (2023). Monitoring Internal Load in Women's Basketball via Subjective and Device-Based Methods: A Systematic Review. Sensors, 23(9):4447.
15. Espasa-Labrador, J., Calleja-González, J., **Montalvo, A.M**., & Fort-Vanmeerhaeghe, A. (2023). External load monitoring in female basketball: A systematic review. Journal of Human Kinetics, 88, 173.
16. Fort-Vanmeerhaeghe, A., Bishop, C., **Montalvo, A.M**., Buscà, B., & Arboix-Alió, J. (2023). Effect of exercise-induced neuromuscular fatigue on jumping performance and lower-limb asymmetries in youth female team-sports athletes. Journal of Human Kinetics, 89:19-31.
17. Fort-Vanmeerhaeghe, A., Benet-Vigo, A., **Montalvo, A.M**., Arboix, A., Buscà, B., & Arboix-Alió, J. (2022). Relationship between Performance and Inter-Limb Asymmetries Using Flywheel Resistance Device in Elite Youth Female Basketball Players. Biology, 11(6):812.
18. AMSSM Collaborative Research Network Youth Early Sport Specialization Summit, Herman, D. C., Nelson, V. R., **Montalvo, A. M.**, Myer, G. D., Brenner, J. S., ... & Tenforde, A. S. (2022). Systematic review of health organization guidelines following the AMSSM 2019 youth early sport specialization summit. Sports Health, 14(1):127-134.
19. AMSSM Collaborative Research Network Youth Early Sport Specialization Summit, Tenforde, A. S., **Montalvo, A. M.**, Nelson, V. R., Myer, G. D., Brenner, J. S., ... & Herman, D. C. (2022). Current sport organization guidelines from the AMSSM 2019 youth early sport specialization research summit. Sports Health, 14(1):135-141.

20. Fort-Vanmeerhaeghe, A., Arboix-Alió, J, & **Montalvo, A.M**. (2022). Return-to-competition following anterior cruciate ligament reconstruction in team sports. Part II: Progressive framework. Apunts Sports Medicine. 57(213):100361
21. Fort-Vanmeerhaeghe, A., Arboix-Alió, J, & **Montalvo, A.M**. (2021). Return-to-competition following anterior cruciate ligament reconstruction in team sports. Part I: From initial injury to return-to-competition. Apunts Sports Medicine. 56(212):100362
22. Arboix-Alió, J., Busquets, A., Aguilera-Castells, J., de Pablo, B., **Montalvo, A. M.**, & Fort-Vanmeerhaeghe, A. (2020). Relationship between Inter-Limb Asymmetries and Physical Performance in Rink Hockey Players. Symmetry, 12(12):2035.
23. Font-Lladó, R., López-Ros, V., **Montalvo, A. M.**, Sinclair, G., Prats-Puig, A., & Fort-Vanmeerhaeghe, A. (2020). A Pedagogical Approach to Integrative Neuromuscular Training to Improve Motor Competence in Children: A Randomized Controlled Trial. The Journal of Strength & Conditioning Research. 34(11):3078-3085.
24. Frank, E., Roberts, L., Doherty-Restrepo, J.L., & **Montalvo, A.M.** (2020) Simulation-Based Instruction in Continuing Education. Athletic Training Education Journal. 15(1): 65–74.
25. Cheatham, S., Martinez, R., **Montalvo, A.M.,** Odai, M., Echeverry, S., Robinson, B., ... & Viecco, K. (2020). Comparison of Roller Massage, Instrument Assisted Soft-Tissue Mobilization, and Floss Band on Passive Knee Motion Among Inexperienced Individuals. Clinical Practice in Athletic Training. 3(3):24-36.
26. DiCesare, C., **Montalvo, A.M.**, Barber Foss, K., Thomas, S., Ford, K.R., Hewett, T.E., Jayanthi, N., Stracciolini, A., Bell, D.R. & Myer, G.D. (2019) Lower Extremity Biomechanics are Altered Through Maturation in Sport-Specialized Female Adolescent Athletes. Frontiers in Pediatrics. 28(7):268.
27. DiCesare, C., **Montalvo, A.M.**, Barber Foss, K., Thomas, S., Hewett, T.E., Jayanthi, N., & Myer, G.D. (2019). Sport specialization elicits coordination differences from multi-sport adolescent female basketball, soccer, and volleyball athletes. Journal of Athletic Training. 54(10):1105-1114.
28. Shams, K., **Montalvo, A.M.,** & Myer, G.D. (2018). Clinical and Functional Outcomes Associated with Autograft Selection for Medial Patellofemoral Ligament Reconstruction: A Systematic Review and Meta-analysis. Orthopedic Journal of Sports Medicine. 7:2325967119825854.
29. Fort-Vanmeerhaeghe, A., Benet, A., Mirada, S., **Montalvo, A. M.**, & Myer, G. D. (2018). Sex and Maturation Differences in Performance of Functional Jumping and Landing Deficits in Youth Athletes. Journal of Sport Rehabilitation. 28(6):1-22.
30. Galloway R.T., Xu Y., Hewett T.E., Barber Foss K., Kiefer A.W., DiCesare C.A., Magnussen R.A., Khoury J., Ford K.R., Diekfuss J.A., Grooms D., Myer G.D., & **Montalvo A.M.** (2018). Age-Dependent Patellofemoral Pain: Hip and Knee Risk Landing Profiles in Prepubescent and Postpubescent Female Athletes. American Journal of Sports Medicine. 46(11):2761-2771.
31. **Montalvo, A. M.**, Schneider, D. K., Silva, P., Webster, K. E., Riley, M. A., Kiefer, A. W., & Myer, G. D. (2018). "What's my risk of sustaining an ACL injury while playing football (soccer)?" A systematic review with meta-analysis. British Journal of Sports Medicine. 53(21):1333-1340.
32. **Montalvo, A. M**., Schneider, D. K., Webster, K. E., Galloway, M. T., Heidt, R. S., Kaeding, C. C., . . . Myer, G. D. (2018). Anterior cruciate ligament injury risk in sport: A systematic review and meta-analysis of injury incidence by sex and sport classification. Journal of Athletic Training. 54(5):472-482.
33. **Montalvo, A. M**., Schneider, D. K., Yut, L., Webster, K. E., Beynnon, B., Kocher, M. S., & Myer, G. D. (2018). "What's my risk of sustaining an ACL injury while playing sports?" A systematic review with meta-analysis. British Journal of Sports Medicine. 53(16):1003-1012.
34. Aguilera-Castells, J., Buscat, B., Fort-Vanmeerhaeghe, A., & **Montalvo, A.M**. (2018). Muscle activation in suspension training: A systematic review. Sports Biomechanics. 19(1):55-75.
35. Lisman, P., Zvijac, J., Vargas, L., Elbaum, L., & **Montalvo, A.M**. (2018). The effects of bracing and knee flexion angle on hamstring activity during crutch walking: A preliminary study for post-operative care. Cogent Medicine. 5(1).
36. Fort-Vanmeerhaeghe, A., **Montalvo, A.M.,** Lloyd, R.S., Read, P., & Myer, G.D. (2017). Authors' response to Letter to the Editor: Modified Tuck Jump Assessment: Reliability and Training of Raters. Journal of Sports Science and Medicine. 16(3).
37. Doherty-Restrepo, J.L., Yam, T., Harris, M., Odai, M., Pottegier, K., & **Montalvo A.M**. (2017). Students' perception of peer and faculty debriefing facilitators following simulation-based education. Journal of Allied Health. 47(2).
38. Doherty-Restrepo, J.L., Harrelson, K.E., Swinnie T., & **Montalvo A.M**. (2017). Does Simulation-Based Training in Athletic Training Students Curricula Increase Clinical Confidence and Competence Of Conducting a Cardiac Screening? Journal of Allied Health. 46(3).

39. **Montalvo, A.M.**, Tse-Dinh Y.C., Liu, Y., Swartzon, M., Hechtman, K.S., & Myer, G.D. (2017). Precision Sports Medicine: The Future of Advancing Health and Performance in Youth and Beyond. Strength and Conditioning Journal. 38(8).
40. Fort-Vanmeerhaeghe, A., Montalvo, A.M., Lloyd, R.S., Read, P., & Myer, G.D. (2017). Intra- and Inter-rater Reliability of the Modified Tuck Jump Assessment. Journal of Sports Science and Medicine. 16(1).
41. **Montalvo, A.M.,** Shaefer, H., Rodriguez, B., Li, T., Epnere, K., & Myer, G.D. (2017). Retrospective Injury Epidemiology and Risk Factors for Injury in CrossFit. Journal of Sports Science and Medicine. 16(1).
42. Fort-Vanmeerhaeghe, A., **Montalvo, A.M.**, Latinjak, A., & Unnithan, V. (2016). Physical characteristics of elite adolescent female basketball players and their relationship to match performance. Journal of Human Kinetics. 53(1).
43. Fort-Vanmeerhaeghe, A., Romero-Rodriguez, D., **Montalvo, A. M.**, Kiefer, A.W., Lloyd, R.S., & Myer, G. D. (2016). Integrative Neuromuscular Training and Injury Prevention in Youth Athletes. Part I: Identifying risk factors. Strength and Conditioning Journal, 38(3).
44. Fort-Vanmeerhaeghe, A., **Montalvo, A. M**., Sitjà-Rabert, M., Kiefer, A. W., & Myer, G. D. (2015). Neuromuscular asymmetries in the lower limbs of elite female youth basketball players and the application of the skillful limb model of comparison. Physical Therapy in Sport,16(4).
45. **Montalvo A.M**., Le Cara E., & Myer G.M. (2014). The effect of kinesiology tape on pain in individuals with musculoskeletal injury. Physician and Sportsmedicine , 42(2).
46. **Montalvo A.M**., Buckley W.E., & Vairo G.L. (2013). The Efficacy of Kinesio Tape to Reduce Pain and Increase Functional Performance in Patellofemoral Pain Syndrome. Journal of Novel Physiotherapy, 3(3).

Abstracts – Peer Reviewed

1. **Montalvo, A. M.**, & Kimura, B. (2018). The Effects Of A Shoulder Stretching And Strengthening Intervention On Shoulder Benchmarks And Disability In Collegiate Softball Players. Medicine & Science in Sports & Exercise. 50(5S).
2. **Montalvo A.M.**, Rodriguez, B., & Shaefer, H. (2016). Injury Epidemiology and Risk Factors for Injury in CrossFit. Journal of Athletic Training. 51(6S).
3. **Montalvo A.M.**, Rodriguez, B., & Shaefer, H. (2016). Injury Epidemiology and Risk Factors for Injury in Group-based High-Intensity Power Training. Medicine and Science in Sport and Exercise. 48(5S).
4. Oller D.M., Vairo G.L., Messina R.M., **Montalvo A.M.**, Sebastianelli W.J., & Buckley W.E. (2012). Injury and illness epidemiology at a university-based summer sports camp. Journal of Athletic Training,47(3):S99.

Chapters in Books

1. Lloyd, R. S., Myer, G.D., Burden, R., Blagrove, R., **Montalvo, A.M.,** & Read, P. J. (2018). Applying strength and conditioning practices to female athletes. In *Routledge Handbook of Strength and Conditioning* (pp. 19-34). Routledge

PRESENTED PAPERS, AND LECTURES

International

1. **Montalvo A.M.** (2020). *CrossFit in the Off-season*. Canadian Athletic Therapists Association 2020 National Conference, Hamilton, Ontario, Canada. (Cancelled due to COVID-19)
2. Fort-Vanmeerhaeghe, A., De Blas-Foix, F.X., Aguilera-Castells, J., Buscat, B**., Montalvo, A.M.** (2018). *Association between neuromuscular asymmetries and physical performance in youth sports team athletes*. National Strength and Conditioning Assocation 6th International Conference, Madrid, Spain.
3. Fort-Vanmeerhaeghe, A., **Montalvo, A.M.,** Lloyd, R.S., Read, P., & Myer, G.D. (2016). *Intra- and Inter-rater Reliability of the Modified Tuck Jump Assessment.* 8th Muscle Tech Network Workshop at FC Barcelona, Spain.

National

1. **Montalvo A.M.** & Kerr, Z.Y. (2026). Hot and Bothered: Athlete Health and Equity in a Changing Climate. Oral presentation at the National Athletic Trainers' Association 77th Clinical Symposia and AT Expo, Philadelphia, PA.
2. Martinez, R.M. & **Montalvo A.M.** (2025). Risk Reduction and Treatment Strategies For Lower Back Pain. Oral presentation at the National Athletic Trainers' Association 76th Clinical Symposia and AT Expo, Orlando, FL.

3. Petit, C., Hussain, Z., Boden, S., White, M. S., Petushek, E., McPherson, A., Pradip, K., **Montalvo, A. M.,** Lamplot, J., Xerogeanes, J., & Myer, G. D. (2025). Return-to-sport in young patients after bone-patellar tendon-bone, hamstring tendon, and quadriceps tendon autograft anterior cruciate ligament reconstruction: Systematic review and meta-analysis. Thematic poster presented at the 2025 ACSM Annual Meeting, Georgia World Congress Center, Atlanta, GA. Medicine & Science in Sports & Exercise, 57(Suppl.).
4. Scarneo-Miller S, **Montalvo A**, Yeargin S, & Kerr Z. (2025). Exertional heat stroke treatment protocols influencing high school student athletes. Oral presentation at 2025 Pediatric Research in Sports Medicine.
5. Yeargin S, **Montalvo A**, Scarneo-Miller S, Kerr Z. (2025). Prevalence of a comprehensive protocol to prevent exertional heat illnesses in adolescent athletes between regions of the country. Free Communication at 2025 Pediatric Research in Sports Medicine.
6. **Montalvo, A.M.** (2022). *Racial and Social Justice Discussion Groups for Athletic Training Educators.* Oral presentation at the 2022 Virtual Athletic Training Educator's Conference.
7. **Montalvo, A. M.**, Kerr, Z.Y., & Register-Mihalik, J.M. (2022). *The Association Between Social Context Factors and Concussion Education and Symptom Knowledge among Black and White Middle School Parents*. Oral presentation at the National Athletic Trainers' Association 73rd Clinical Symposia and AT Expo.
8. **Montalvo A.M.** (2019). *Alternatives, interventions & guidelines for youth sport participation (panelist)*. 2019 American Medical Society for Sports Medicine Youth Early Sports Specialization Summit.
9. **Montalvo A.M.** & Martinez R. (2019). *Mirror, Mirror: Teaching and Learning Through Reflection*. 2019 Athletic Training Educators' Conference.
10. Kimura, B. & **Montalvo, A.M.** (2018). *The effects of a shoulder stretching and strengthening intervention on shoulder benchmarks and disability in collegiate softball players*. National Athletic Trainer's Association 69th Clinical Symposia and AT Expo.
11. Kimura, B. & **Montalvo, A.M.** (2018). *The effects of a shoulder stretching and strengthening intervention on shoulder benchmarks and disability in collegiate softball players*. American College of Sports Medicine 65th Annual Meeting.
12. Kimura, B. & **Montalvo, A.M.** (2017). *The effects of a shoulder stretching and strengthening intervention on shoulder benchmarks and disability in collegiate softball players*. National Undergraduate Research Conference.
13. **Montalvo A.M.**, Rodriguez, B., & Shaefer, H. (2016). *Injury Epidemiology and Risk Factors for Injury in CrossFit.* National Athletic Trainers' Association 67th Clinical Symposia and AT Expo.
14. **Montalvo A.M.**, Rodriguez, B., & Shaefer, H. (2016). *Injury Epidemiology and Risk Factors for Injury in Group-based High-Intensity Power Training*. American College of Sports Medicine 63rd Annual Meeting.

Regional

1. **Montalvo, A.M**. (2024). *Artificial Intelligence, Machine Learning, and Sports Medicine*. Oral presentation at the Rocky Mountain Athletic Trainers' Association Annual Meeting.
2. **Montalvo, A.M.** (2023). *Climate Change and Athlete Health*. Oral presentation at Rocky Mountain Athletic Trainers' Association Annual Meeting.
3. **Montalvo, A. M.**, Kerr, Z.Y., & Register-Mihalik, J.M. (2022). *The Association Between Social Context Factors and Concussion Education and Symptom Knowledge among Black and White Middle School Parents*. Oral presentation at Rocky Mountain Athletic Trainers' Association Annual Meeting.
4. **Montalvo, A.M**. (2017). *stATs: An Athletic Trainer's guide to interpreting and applying statistics in clinical practice*. Oral presentation at Southeast Trainers' Association Clinical Symposium.
5. **Montalvo, A.M.**, Hardison T., & Shanstrom N. (2015). *Injury epidemiology and risk factors in CrossFit*. Poster presentation at Southeast Athletic Trainers' Association Clinical Symposium.

State

1. **Montalvo, A.M**. (2024). *Artificial Intelligence, Machine Learning, and Sports Medicine*. Oral presentation at the Arizona Athletic Trainer's Association Winter Symposium.
2. **Montalvo, A.M.** (2022). *The 5E Model of Instruction in EXW215: Fitness & Flexibility*. Oral presentation at the ASU Online Faculty Showcase.
3. Ledtke, V. & **Montalvo, A.M.** (2015). *The Effects of a Targeted Neuromuscular Rehabilitation Protocol on Correcting Neuromuscular Asymmetries in a Semi-Professional Basketball Player*. Oral presentation at Athletic Trainers' Association of Florida.
4. Hardison T., Shanstrom N., & **Montalvo, A.M.** (2014). *Injury epidemiology and risk factors in CrossFit*. Oral presentation at Athletic Trainers' Association of Florida.

WORKS IN PROGRESS

Papers submitted to journals for consideration

1. Hogg, J.A., **Montalvo, A.M.,** Koss, A., Schille, A., Slaton, J.A., Sengkhammee, L.E., Pradip, K, Skarpelis, A., Reddy, M.M., Biller, M., Newsome, M., Xerogeanes, J.W., Myer, G.D., Diekfuss, J.A. Part I: Persistent limb asymmetry in quadriceps torque output throughout the knee extension arc following quadriceps tendon autograft ACL reconstruction in young patients. Journal of Orthopedic and Sport Physical Therapy**. In revision.**
2. Hogg, J.A., **Montalvo, A.M.,** Koss, A., Schille, A., Slaton, J.A., Sengkhammee, L.E., Pradip, K, Skarpelis, A., Reddy, M.M., Biller, M., Newsome, M., Xerogeanes, J.W., Myer, G.D., Diekfuss, J.A. art II: Longitudinal Sex Differences in Quadriceps Strength and Symmetry After All-Soft Tissue Quadriceps Tendon ACL Reconstruction. Journal of Orthopedic and Sport Physical Therapy**. In revision.**
3. Novosel, J., Terrain, L., Lyons, L., Murphy, T., **Montalvo, A.M.,** McPherson, A.M., Webster, K.E., Myer, G.D., & Petushek, E.J. Functional and Psychological Differences Across Recovery in Groups That Do and Do Not Return to Sport After ACL Reconstruction: A Systematic Review and Meta-Analysis (Part 1). Journal of Orthopedic and Sport Physical Therapy**. Under review**.
4. Terrain, L., Novosel, J, Lyons, L., Murphy, T, **Montalvo, A.M.,** McPherson, A.M., Webster, K.E., Myer, G.D., & Petushek, E.J. Functional and Psychological Differences Across Recovery in Groups With and Without Second ACL Injury After Reconstruction: A Systematic Review and Meta-Analysis (Part 2). Journal of Orthopedic and Sport Physical Therapy. **Under review**.

Research in Progress

1. **Montalvo, A.M.,** Petushek, E.J., Webster, K., Paterno, M.V., Howell, D.R., Grooms, D.R., Spindler, K.P., & Myer, G.D. We know how to prevent ACL injuries. It's time to act: From primary prevention implementation to secondary risk reduction. Part 1: Closing the gap in primary ACL injury prevention. **In preparation**.
2. **Montalvo, A.M.**, Petushek, E.J., Webster, K., Paterno, M.V., Howell, D.R., Grooms, D.R., Spindler, K.P., & Myer, G.D. We know how to prevent ACL injuries. It's time to act: From primary prevention implementation to secondary risk reduction. Part 2: Applying primary prevention principles to prevent second injury. **In preparation.**
3. Nguyen, C.N.N, Collins, C.L., Kerr, Z.Y., Grundstein, A.J, Scarneo-Miller, S.E., Yeargin, S.W., Hystad, P., & **Montalvo, A.M..** No difference in abilities of air temperature and wet bulb globe temperature to predict exertional heat illness in high school athletes residing in arid regions. **In preparation**.
4. **Montalvo, A.M.,** Nguyen, C.N.N, Collins, C.L., Kerr, Z.Y., Grundstein, A.J, Scarneo-Miller, S.E., Yeargin, S.W., & Hystad, P. Heat is associated with exertional heat illness in high school athletes. **In preparation**.
5. **Montalvo, A.M**., Comp, J., Shah, S., Saffel, E., Grundstein, A.J., & Ghassemzadeh, H. Predicting risk of exertional heat illness in children using big (environmental) data and machine learning. **In progress**.

Grant Proposals

FUNDED RESEARCH

Title: Current and predicted risk of exertional heat illness in high school athletes
Funding Agency: NATA Research and Education Foundation
PI: **Montalvo, A.M.**
Term of Agreement: 8/2024–8/2026
Total Amount: $49,992

Title: Predicting risk of exertional heat illness in children using big (environmental) data and machine learning
Funding Agency: The College of Health Solutions Heat & Health seed grant, Arizona State University
PI: **Montalvo, A.M.**
Term of Agreement: 5/2023–12/2024
Total Amount: $25,000

Title: The effect of Kinesiology Tape on functional measures in patellofemoral pain patients over time
Funding Agency: College of Nursing and Health Sciences, Florida International University
PI: **Montalvo, A.M.**
Term of Agreement: 3/2013–8/2014
Total Amount: $900

PROPOSALS SUBMITTED BUT NOT FUNDED

Title: Heat Index versus HeatRisk for predicting pediatric heat-related hospitalization in Arizona
Funding agency: Burroughs Wellcome Fund
PI: **Montalvo, A.M.**
Submitted: July 2024
Amount requested: $50,000

Title: Data informed guidelines for air pollution policy in the Pac-12
Funding agency: Pac-12 Conference
PI: **Montalvo, A.M.**
Submitted: August 2023
Amount requested: $103,000

Title: Current and predicted impacts of extreme heat events on risk of exertional heat illness in high school football players
Funding agency: NATA Research and Education Foundation
PI: **Montalvo, A.M.**
Submitted: February 2023
Amount requested: $50,000

Title: Current and predicted impacts of extreme heat events on risk of exertional heat-related illnesses in Pac-12 athletes
Funding agency: Pac-12 Conference
PI: **Montalvo, A.M.**
Submitted August 2022
Amount requested: $85,000

Title: Targeting treatment in patients with knee joint effusion: Synovial proinflammatory cytokine concentration as a predictor for response to treatment
Funding agency: National Athletic Trainer's Association
PI: **Montalvo, A.M.**
Submitted: March 2017
Amount requested: $20,000

Title: Targeting treatment in patients with knee joint effusion: Synovial proinflammatory cytokine concentration as a predictor for response to treatment
Funding agency: American Medical Society for Sports Medicine – American College of Sports Medicine
PI: **Montalvo, A.M.**
Submitted: February 2017
Amount requested: $20,000

Title: Using cytokines to predict performance and outcomes in athletes with anterior cruciate ligament injury
Funding agency: National Strength and Conditioning Association
PI: **Montalvo, A.M.**
Submitted: March 2016
Amount requested: $20,000

Title: Using cytokines to predict performance and outcomes in athletes with anterior cruciate ligament injury
Funding agency: Southeast Athletic Trainers' Association
PI: **Montalvo, A.M.**
Submitted: February 2016
Amount requested: $2,000

Title: The effect of expectation of kinesiology tape on performance in individuals with chronic ankle instability.
Funding agency: Southeast Athletic Trainers' Association
PI: **Montalvo, A.M.**
Submitted: February 2015
Amount requested: $2,500

Title: The effectiveness of kinesiology tape to improve functional measures in physically active individuals with patellofemoral pain acutely and over time
Funding agency: American Medical Society for Sports Medicine/American College of Sports Medicine
PI: **Montalvo, A.M**., Swartzon, M. (physician at Doctor's Hostpital), & Vairo, G.L.
Submitted: February 2014
Amount Requested: $10,000

Title: The effect of an educational seminar on clinical athletic trainers' perceived importance, knowledge and use of the literature related to evidence-based practice concepts
Funding agency: Southeast Athletic Trainers' Association
PI: **Montalvo, A.M.**, Odai, M., & Doherty-Restrepo, J.L.
Submitted: January 2014
Amount requested: $2,500

Title: The effect of kinesio tape at the hip on functional measures in patellofemoral pain patients
Funding Agency: National Athletic Trainer's Association Research and Education Foundation
PI: **Montalvo, A.M.**
Submitted: February 2013
Amount Requested: $2,500

PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

Professional

Arizona Athletic Trainers' Association Warren H. Lee Athletic Trainer of the Year 2023
Florida International University Athletic Training Program Alumni of the Year 2021

University

ASU Online Remarkable Faculty 2022
Committee for Campus Inclusion Catalyst Award 2021 – Group Category
The Pennsylvania State University College of Health and Human Development Bunton-Waller Fellowship, Awarded academic year 2011-2012

College

Faculty Service Award 2024

Department

Florida International University Athletic Training Program Educator of the Month November 2016
Florida International University Athletic Training Program Educator of the Month December 2013

OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

National

District Representative	NATA Career Advancement Committee	2022 – 2024
Member	NATA Athletic Training Educators' Conference Subcommittee	2019 – 2024
NATA Liaison	Liaison to NATA for the American Medical Society for Sports Medicine Early Sport Specialization Writing	2018– 2019

	Group	
Member	American Medical Society for Sports Medicine Early Sport Specialization Writing Group	2018– 2019
Manuscript Reviewer	Journal of Athletic Training Medicine and Science in Sport and Exercise Journal of Sports Science and Medicine Sports Health Athletic Training and Sports Healthcare Sports Medicine – Open American Journal of Sports Medicine Orthopedic Journal of Sports Medicine Child Neuropsychology Journal of Science and Medicine in Sport Journal of Bodywork and Movement Therapy	2013– Present
Seminar Moderator	*National Athletic Trainer's Association National Conference – Upper Extremity Neurodynamics*	July 2017
Seminar Moderator	*National Athletic Trainer's Association National Conference – Advanced Track Pre-Hospital Care*	July 2016
Seminar Moderator	*National Athletic Trainer's Association National Conference – Advanced Track Sahrmann Techniques*	July 2015
Seminar Moderator	*National Athletic Trainer's Association National Conference – Advanced Track Knee Pain*	July 2014
Seminar Moderator	*National Athletic Trainer's Association National Conference – Advanced Track Kinesio Taping*	July 2013

State

Co-Chair	Arizona Athletic Trainers' Association Government Affairs Committee	2025 – Present
Chair	Arizona Athletic Trainers' Association Communications Committee	2023 – 2025

University

ASU Committee for Campus Inclusion – Charter library subcommittee	2026 – present
Host, In Unity Podcast	2022 – 2025
Sun Devil Athletics Research and Technology Committee	2022 – 2024
ASU Committee for Campus Inclusion – podcast subcommittee	2021 – 2025
FIU Student Government Association Scholarship Committee	2015 – 2019

School/College

Council for Inclusive Excellence (Chair)	2020 – Present
Clinical Exercise Science Curriculum Committee	2020 – Present
Athletics Affinity Network	2019 – Present
Translational Team Committee (Chair)	2019 – 2023
Ad Hoc Faculty Evaluations Committee	2019 – 2021
Healthy Lifestyles Fitness Science Curriculum Committee	2019 – 2021
Muscle Physiologist Search and Screen Committee	2019 – 2020
Rehabilitation Sciences PhD Development Committee	2018 – 2019
Dissertation Adviser Status	2018 – 2019
Athletic Training Search and Screen Committee	2017 – 2019
Graduate Faculty Status	2017 – 2019
Occupational Therapy Search and Screen Committee	2016 – 2019
Precision Medicine Task Force	2015 – 2017
Technology Committee	2013 – 2019