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- Gdovin, J.R., Wade, C., Williams, C.C., Luginsland, L.A., Wilson, S.J., & Garner, J.C. Impact of Shoe and Cleat Type on Youth Baseball Pitching Biomechanics. *Journal of Sports Biomechanics*. 21(6), 761-772, 2019. https://doi.org/10.1080/14763141.2019.1679243
- Gdovin, J.R., Williams, C.C., Wilson, S.J., Cazas-Moreno, V.L., Luginsland, L.A., Allen, C.R., Chander, H., Wade, C., Garner, J.C. Influences of Athletic Footwear on Ground Reaction Forces During a Side Step Cutting Maneuver on Artificial Turf. *International Journal of Kinesiology and Sports Science*. 6(2), 30-36, 2018. https://doi.org/10.7575/aiac.ijkss.v.6n.2p.30
- Wilson, S.J, Williams, C.C., Gdovin J.R., Eason J.D., Luginsland, L.A., Hill C.M., Chander, H., Wade C., Garner, J.C. The Influence of an Acute Bout of Whole Body Vibration on Human Postural Control Responses. *The Journal of Motor Behavior*. 50(5), 590-597, 2018. https://doi.org/10.1080/00222895.2017.1383225

MANUSCRIPTS UNDER-REVIEW

- Luginsland L.A., Haegele, J.A., Laverdure, P.A., Bennett H.J. Walking Patterns in Persons with Autism Spectrum Disorder: A Systematic Review. *World Scientific: Annual Review of Biomechanics*. (Revisions Submitted 03/2024).
- Anable, N.A., Luginsland, L.A., Stevens, W.R., Loewen, A.M., Jo, C.H., Jeans, K.J. Squatting in Adolescents with Unilateral and Bilateral Hip Dysplasia. *Gait & Posture*. (Submitted 09/2023).

MANUSCRIPTS IN PREPARATION

- **Luginsland L.A.**, Haegele, J.A., Bennett H.J. Understanding Auditory and Tactile Responses in Persons with a Visual Impairment.
- Luginsland L.A., Haegele, J.A., Bennett H.J. Understanding Kinematic and Kinetic Differences in Adolescent Siblings with Autism Spectrum Disorder.
- Luginsland L.A., Zhu, X, Haegele, J.A. Investigating Falls, Physical Activity, and Health-Related Quality of Life across the Ages in Persons with a Visual Impairment.

INVITED LECTURES/PANELIST

- Luginsland, L.A. (February 2024). *Gait 101: Understanding the Basics.* Presented for the students of KHP 4496 Exercise Science at Troy University.
- Luginsland, L.A., Kruger, K.M., Tulchin-Francis, K., Wren, T.A.L. (November 2023). The Influence of Biomechanics Research on Clinical Care. Organized collaborative event between International Women in Biomechanics and Gait & Clinical Movement Analysis Society.
- Luginsland, L.A., Davis, D.J., Leestma, J.K. (June 2023). Student Panel: Prepare for ASB Knoxville. Presented panelist for student members American Society of Biomechanics.
- Luginsland, L.A. (March 2023). *Understanding Gait and Balance Characteristics*. Presented for the students of PET 3310 - Kinesiology at University of North Florida.
- Luginsland, L.A. (September 2022). Biomechanics Research across Various Disciplines.

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Barrett K, Parrish K, Luginsland LA, Bennett, HJ. Does Direction Matter? An Analysis of the Volleyball Attack. American Society of Biomechanics, Knoxville, TN. August 8-11 2023. (Poster)

Anable N, Luginsland LA, Carlos, C Jr., Stevens, WR Jr. Investigating Pelvic Drop ible N,

with Unilateral and Bilateral Acetabular Hip Dysplasia. Gait & Clinical Movement Analysis Society Annual Conference, West Chester, PA, June 2-5 2020. (Podium) *Conference cancelled due to COVID-19

Luginsland LA, Stevens WR Jr., Nijjar B, Tulchin-

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HONORS/AWARDS

- 2023 Gait & Clinical Movement Analysis Society (GCMAS) | Travel Award | \$425
- 2022 American Society of Biomechanics Student | Travel Award | \$350
- 2022 AMTI Force and Motion Foundation | Travel Scholarship | \$1,000
- 2022 Old Dominion University Graduate Research Achievement Day Poster Competition | 2nd Place

2Mkmberwardere | University of Scranton |16th Annual Celebration of Student Scholars

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

2020 Comparison of the second state of the sec

Recreation Management at University of Mississippi | Advise undergraduate students with scheduling of academic courses

Community Activities

2023	Event Co-Host National Biomechanics Day Old Dominion University Neuromechanics Lab
2023	Volunteer Science Fair Judge Larchmont Elementary Norfolk, VA
2022	Conference Insider North American Congress of Biomechanics Invited mentor to first time attendees
2019-2021	Volunteer The Legacy Scholarship Scottish Rite for Children Mentor former patients during their first year of college
2019	Volunteer The Links STEM Academy Event Educate students about the field of biomechanics and orthopedics through interactive courses
2019	Event Co-Host National Biomechanics Day Scottish Rite for Children Movement Science Lab
2018	Volunteer Perry Initiative Program Scottish Rite Hospital for Children
2017	Event Host National Biomechanics Day University of Mississippi Applied Biomechanics Lab
2017	Volunteer Science Fair Judge Oxford Intermediate School Oxford, MS
2016	Event Co-Host University of Success Program University of Scranton Human Ergonomics Movement Laboratory Introduce biomechanics to enrolled first- generation college students
2016	Event Co-Host National Biomechanics Day University of Scranton Human Ergonomics Movement Laboratory

Journal Reviewer

International Journal of Athletic Therapy & Training (2021)

RESEARCH INTERESTS

- Autism Spectrum Disorder: evaluation of movement patterns, implications in physical activity and sport
- Visual Impairments: balance and falls
- Clinical Analysis: pathology & movement patterns
- Sports Performance: athletic maneuvers & running

TECHNIQUES/SKILLS

Biomechanical Analysis Equipment/Tools:

- VICON Motion Capture Software: Nexus & Polygon
- AMTI Forceplates (Advanced Mechanical Technology, Inc., Watertown MA, USA)
- Bertec Forceplates (Bertec Inc., Columbus OH, USA)
- Delsys Trigno Wireless EMG system (Delsys Inc., Natick, MA, USA)
- Protokinetics Zeno Walkway (ProtoKinetics LLC., Havertown, PA, USA)

- MatLab (The MathWorks, Inc., Natick, MA, USA)
 - Ability to execute code, troubleshoot errors, modify pre-existing code
- EMG Motion Labs System (Motion Labs Inc., Baton Rouge, LA, USA)
- Novel® Pedobarograph Plantar Pressure Plate (Novel Inc., St. Paul, MN, USA)
- Motion Analysis system with Cortex version 3.6 Motion Capture system (Motion Analysis Corporation, Santa Rosa CA, USA)
- Wireless EMG System (Noraxon, Scottsdale AZ, USA)
- Biodex System 3/4 (Biodex Medical Systems Inc., Shirley, NY, USA)
- Neurocom® Equitest
- K4B² Oxygen Consumption System
- REDCap Software (Research Electronic Data Capture, Vanderbilt University, USA)
- EPIC Electronic Medical Record Software (Epic Systems Corporation, Verona, WI, USA)