CURRICULUM VITAE

Silvio Polly da Costa Valladão, Ph.D., CSCS

School of Kinesiology, Recreation, and Sport Western Kentucky University 1607 Avenue of Champions, Smith Stadium East 1062 Bowling Green, KY, 42101 Office Phone: (270) 745-2004

Email: silvio.pollydacostavalladao@wku.edu

Education

University of Mississippi

2020 - 2024

Ph.D. in Health and Kinesiology with Emphasis in Exercise Science Interdisciplinary Graduate Minor in Applied Statistics

Dissertation: Effects of Fatigue on Interlimb Asymmetry in ROTC Cadets

University of Mississippi

2018 - 2020

M.S. in Exercise Science

Thesis: Establishing a Duration Standard for the Calculation of Session Rating of Perceived Exertion During Matches in NCAA Division I Women's Soccer

Georgia Southwestern State University

2014 - 2018

B.S. in Exercise Science and Wellness [Honors, Summa Cum Laude]

Languages: Portuguese, native speaker; English, advanced level; Spanish, conversational level

Teaching and Research Appointments

Research Interests: Sports, Performance, Asymmetries, Monitoring Training Loads, Esports Teaching Interests: Statistics, Research Methods, Sports Science, Exercise Physiology

Assistant Professor, Western Kentucky University

2024 – Present

School of Kinesiology, Recreation, & Sport

Instructor of Record:

- KIN 518 Advanced Statistics in Kinesiology Avg. Student Eval.: --
- EXS 324 Measurement & Evaluation in Kinesiology Avg. Student Eval.: --

Mentorship:

- Thesis Committee Chair. Student: Blake Crutcher
- Thesis Committee Member. Student: Knik Durman
- Thesis Committee Member. Student: Manly Barksdale

Graduate Teaching & Research Assistant, University of Mississippi

2018 - 2024

Department of Health, Exercise Science and Recreation Management Instructor of Record:

Lecture Courses

- ES 457 Exercise Testing & Prescription Laboratory Avg. Student Eval.: 3.98
- ES 440 Behavioral Aspects of Exercise Avg. Student Eval.: 5.0
- ES 350 Research Methods Avg. Student Eval.: 4.23
- ES 349 Physiology of Exercise Laboratory Avg. Student Eval.: 4.87

- ES 347 Structural Kinesiology Labs Avg. Student Eval.: 4.42
- HP 203 First Aid and CPR Avg. Student Eval.: 4.19
- ES 100 Introduction to Exercise Science Avg. Student Eval.: 4.38

Activity Courses - Avg. Student Eval.: 4.68

- EL 156 Jogging
- EL 153 Sports Conditioning
- EL 151 Weight Lifting
- EL 147 Tennis
- EL 129 Body Contouring
- EL 124 Racquetball

Guest Lectures

Georgia Southwestern Athletics

- 2023: EDRS 701 Educational Statistics II
- 2022 & 2023: ES 611 Exercise Physiology I
- 2022: NHM 532 Nutrition Education and Counseling

Undergraduate Research Assistant, Georgia Southwestern State University School of Health Sciences	2017 – 2018
Volunteer Laboratory Instructor, Georgia Southwestern State University School of Health Sciences Course: Exercise Testing & Prescription	2018
Supplemental Instructor & Tutor, Georgia Southwestern State University Academic Resource Center Course: Anatomy & Physiology II and American Government Professional Experience	2017
Affiliated Sports Scientist, University of Mississippi Center for Health and Sports Performance	2021 – 2024
Data Analyst, University of Mississippi Ole Miss Women's Soccer	2019 – 2023
Head Strength & Conditioning Coach, Nona Football Club Nona Football Club Men's Soccer	2022

Peer-Reviewed Research Publications

Athletic Training and Strength & Conditioning Intern, Georgia Southwestern State University

1. Phillips, J., Dusseault, M., **Valladão**, **S.**, Nelson, H., & Andre, T. (2023). Test Transferability of 3D-MOT Training on Soccer Specific Parameters. Research Directs in Strength and Performance, 3(1).

2018

2. **Valladão, S.**, Phillips, J., Logan, A., & Andre, T. (2023). Relationships Between Pre-Match Training Load Variables and Matchday Countermovement Jump Height in NCAA DI Women's Soccer. Research Directs in Strength and Performance, 3(1).

- 3. Valladão, S. P., Loenneke, J., Ye, X., Franks, C., & Andre, T. (2022). Minutes Played Should be Used for the Calculation of Session Rating of Perceived Exertion During Matches in NCAA Division I Women's Soccer. Research Directs in Strength and Performance, 2(1).
- 4. Nelson, H., Valladão, S., Schwarz, N., Valliant, M., & Andre, T. (2021). Effect of Pre-sleep Casein and Tryptophan Supplementation on Energy Expenditure Before, During, and After Exercise in Active Females. Journal of Exercise and Nutrition, 4(1):1.
- 5. Rhoden, G., Nelson, H., **Valladão**, **S.**, & Andre, T. (2021). Blood Glucose Levels in Response to 1 Hour of Esports Training: A Pilot Study. International Journal of Esports, 1(1).
- 6. **Valladão**, **S.**, Middleton, J., & Andre, T. (2020). Esport: Fortnite Acutely Increases Heart Rate of Young Men. International Journal of Exercise Science, 13(6), 1217.
- 7. Andre, T., Walsh, S., **Valladão, S.**, & Cox, D. (2020). Physiological and Perceptual Response to a Live Collegiate Esports Tournament. International Journal of Exercise Science, 13(6), 1418-1429.
- 8. Andre, T., Valladão, S., Walsh, S., & Reisbeck, D. (2019). Breathing Limited Air Situational Training Masks (BlastMask) Versus Self-Contained Breathing Apparatus (SCBA) for Firefighters: A Pilot Study. International Journal of Exercise Science, 12(6), 941-949.

Research Manuscripts (In Preparation/Progress)

- 1. Couey, C., Nelson, H., **Valladão**, **S.**, Phillips, J., Armstrong, K., Andre, T. (Manuscript in preparation). The Impact of a Lower Body Positive Pressure Treadmill on Exercise Regulation.
- 2. **Valladão, S.**, Bentley, J., & Andre, T. (Manuscript in preparation). Comparison of Match Workload Performance on Single-Match Weeks and Double-Match Weeks in NCAA Division I Women's Soccer.
- 3. **Valladão**, **S.**, Phillips, J., & Andre, T. (Manuscript in preparation). Pre-Match Countermovement Jump Height Correlates Positively with Match Mechanical Load in NCAA Division I Women's Soccer.
- 4. **Valladão, S.**, Mendsen, D., Casaru, C., & Meador, B. (Manuscript in preparation). Effects of Cool-Down Protocol Upon Exit from the First-Half on Second-Half Performance in NCAA D-II Soccer Players.
- 5. **Valladão, S.**, Kang, M., & Andre, T. (Project in progress). Measurement Considerations of Esports Performance Measures Using Aim Hero.
- 6. Andre, T., **Valladão, S.**, & Nelson, H. (Manuscript in preparation). Impact of Eadvantage Esport Supplement on Esport Performance and Heart Rate.
- 7. Andre, T., **Valladão**, **S.**, Hill, C., & Nelson, H. (Manuscript in preparation). Impact of Halosport on Esport Performance.
- 8. Nelson, H., **Valladão**, **S.**, & Andre, T. (Manuscript in preparation). Impact of Wearing Gunnar Optiks Gaming Glasses on Esports Performance.
- 9. Andre, T., **Valladão, S.**, Nelson, H., Phillips, J., Armstrong, K., & Janatova, T. (Manuscript in preparation) Validity of the Perch Fitness 3D Camera System to Measure Barbell Mean Velocity and Peak Velocity During Deadlift and Hang-Clean in Resistance-Trained Females.

- 10. Phillips, J., **Valladão, S.**, & Andre, T. (Project in progress). Determinants of NCAA Division I Cross-Country Running Performance.
- 11. Phillips, J., **Valladão**, **S.**, & Andre, T. (Project in progress). Determinants of NCAA Division I Softball Performance and Load Monitoring in Pitchers.
- 12. Phillips, J., **Valladão**, S., & Andre, T. (Project in progress). Determinants of NCAA Division I Volleyball Shoulder Asymmetry and Fatigue Across Off-Season Training.
- 13. Phillips, J., **Valladão**, S., Dineen, S., & Andre, T. (Project in progress). Effects of Unweighting and Speed on Gait Patterns During Walking and Running on a Lower Body Positive Pressure Treadmill.

Presentations & Published Abstracts

- 1. Valladão, S., Bentley, J., & Andre, T. (February & June 2024). Effects of Playing 1 vs 2 Matches per Week on Match Workload in NCAA Division I Women's Soccer Players. Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Thematic Poster Presentation. Doctoral Student Competition Finalist; & American College of Sports Medicine Conference, Boston, MA, USA, Poster Presentation.
- 2. Phillips, J., Valladão, S., Ossenheimer, C., & Andre, T. (February 2024). Relationship Between Drop Jump Metrics and Sprint Performance In NCAA Division I Softball Athletes. Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Poster Presentation.
- 3. Dineen, S., Phillips, J., **Valladão, S.**, van den Berg, K., Ossenheimer, C., Franks, R., & Andre, T (February 2024). Relationship Between Countermovement Jumps and Race Performance in Female Cross-Country Athletes: A Preliminary Study. Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Poster Presentation.
- 4. **Valladão, S.**, Phillips, J., & Andre, T. (February 2023). Pre-Match Countermovement Jump Height Correlates Positively with Match Mechanical Load in NCAA Division I Women's Soccer. Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Poster Presentation.
- 5. Nelson, H., Phillips, J., **Valladão, S.**, Milenkovic, A., & Andre, T. (November 2022). Investigating the Impact of Glucose Levels and a Brief Exercise Bout on Esports Performance and Fatigue. Esports Research Network Conference, Jönköping, Sweden, Oral Presentation.
- 6. Andre, T., Nelson, H., **Valladão**, **S.**, Phillips, J., & Milenkovic, A. (November 2022). Use of Blue Light Filtering Glasses During Gaming on Fatigue. Esports Research Network Conference, Jönköping, Sweden, Oral Presentation.
- 7. Valladão, S., Phillips, J., & Andre, T. (October 2021; February & June 2022). Utilizing Countermovement Jumps as a Measure of Preparedness in NCAA Division I Women's Soccer. R&R Conference, University of North Alabama, Florence, AL, USA, Oral Presentation; Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Oral Presentation; & American College of Sports Medicine Conference, San Diego, CA, USA, Poster Presentation.
- 8. Phillips, J., Dusseault, M., Valladão, S., Nelson, H., Faubert, J., & Andre, T. (June 2022). Investigating the Effects of 3-Demensional Motion Object Tracking (3D-MOT) training on In-Game College Soccer Performance. American College of Sports Medicine Conference, San Diego, CA, USA, Poster Presentation.

- 9. **Valladão**, S., Nelson, H., Hill, C., & Andre, T. (June 2021). Impact of tDCS on Esports Performance. American College of Sports Medicine National Conference, Digital Poster & Voice [COVID-19].
- 10. Andre, T., **Valladão, S.**, & Nelson, H. (February 2021). Health and Wellness in Esports. Mississippi Association for Health, Physical Education, Recreation and Dance (MAPHERD), Recorded Video Presentation, Virtual Convention.
- 11. Rhoden, G., **Valladão**, **S.**, Nelson, H., & Andre, T. (October 2020). Impact of Esports on Blood Glucose Levels. University of California-Irvine Esports Conference, Digital Poster & Voice [COVID-19].
- 12. Nelson, H., Valladão, S., Sanders, R., Harnish, R., Milenkovic, & A., Andre, T. (May 2020). Effects of Esport Specific Supplementation on Esport Performance and Physiological Measurements. American College of Sports Medicine National Conference, San Francisco, CA, USA, Digital Poster [COVID-19].
- 13. Valladão, S., Andre, T., Sanders, R., Nelson, H., Schwarz, N., Valliant, M., & Hogg, J. (May 2020). Impact of Casein Protein Containing L-Tryptophan and Melatonin on Sleep Quality and Energy Expenditure. American College of Sports Medicine National Conference, San Francisco, CA, USA, Digital Poster [COVID-19].
- 14. Sanders, R., Morgan, G., Valladão, S., Andre, T., & Stamatis, A. (May 2020). Mental Toughness, Self-compassion, And Mental Health in Esports: A Mediation Analysis. American College of Sports Medicine National Conference, San Francisco, CA, USA, Digital Poster [COVID-19].
- 15. **Valladão**, S. & Rhoden, G. (August 2019). Physiological Responses to Esports. The University of Mississippi's Tech Summit, Oxford, MS, USA, Oral Presentation.
- 16. Valladão, S., Andre, T., & Cox, D. (May 2019). Heart Rate Response During a Collegiate Esports Tournament. American College of Sports Medicine National Conference, Orlando, FL, USA, Poster Presentation.
- 17. Rhoden, G., Valladão, S., Andre, T., & Cox, D. (May 2019). Observation of Heart Rate Variability Response to Collegiate Esports Tournament. American College of Sports Medicine National Conference, Orlando, FL, USA, Poster Presentation.
- 18. Cox, D., Andre, T., Valladão, S., & Middleton, J. (May 2019). Heart Rate Response During Esport: Fortnite. American College of Sports Medicine National Conference, Orlando, FL, USA, Poster Presentation.
- 19. Stamatis, A., Andre, T., Padgett, R., & Valladão, S. (May 2019). Mental Toughness as a Moderator of the Physical Exercise eSports Performance Relationship: A Pilot Study. American College of Sports Medicine National Conference, Orlando, FL, USA, Poster Presentation.
- 20. Valladão, S., Andre, T., Walsh, S., & Reisbeck, D. (February & March 2019). Validation of Blastmask Firefighter Training Mask during Steady State Exercise in Firefighters. Blastmask Inc. Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Poster Presentation & The University of Mississippi's Graduate Student Council Annual Research Symposium, Oxford, MS, USA, Poster Presentation.
- 21. Cox, D., Andre, T., Valladão, S., & Middleton, J. (February 2019). Heart Rate Response During Esport: Fortnite. Southeast American College of Sports Medicine Conference, Greenville, SC, USA, Poster Presentation.

- 22. Valladão, S., Mendsen, D., Casaru, C., & Meador, B. (February 2018). Effects of cool-down protocol upon exit from the first-half on second-half performance in NCAA D-II soccer players. Southeast American College of Sports Medicine Conference, Chattanooga, TN, USA, Poster Presentation & GSW Annual Research Symposium, Americus, GA, USA, Poster Presentation.
- 23. **Valladão**, **S.** (February 2018). Health and Exercise Considerations for Future Teachers/Educators. Future Educators of America Conference, Americus, GA, USA, Oral Presentation.

Internal Grants & Funding (Total Requested: \$17,740; Total Awarded: \$17,740)

- 1. CITL Teaching Development Grant (2024); Utilizing AI in EXS 324; Funded: \$240
- 2. Lumen Circles Faculty Learning Community (2021); The University of Mississippi's Academic Innovation Projects; Role: Instructor; Funded: \$2,000
- 3. The Use of Heart Rate Monitoring for Determination of Adherence to High-Intensity, Low-Volume Exercise in Sedentary Female College Students (2021); The University of Mississippi's Graduate Student Council; Role: Co-Investigator; Funded: \$1,000
- 4. Course Redesign for Introduction to Exercise Science (ES 100) (2021); The University of Mississippi's FACT Institute Grant; Role: Instructor; Funded: \$12,000
- 5. Course Redesign for Introduction to Exercise Science (ES 100) (2020); The University of Mississippi's CTR Grant; Role: Instructor; Funded: \$1,000
- 6. Incorporating Writing, Oral Communication, and Critical Thinking in the Classroom (2020); The University of Mississippi's Department of Writing and Rhetoric; Role: Instructor; Funded: \$500
- 7. Impact of Wearing the Cosmed K4b2 on 5k Running Economy and Performance (2019); The University of Mississippi's Graduate Student Council; Role: Principal Investigator; **Funded**: \$1,000

Equipment In-Kind (Total Requested: \$16,700; Total Awarded: \$16,700)

- 1. Validity of The Perch Fitness 3D Camera System to Measure Barbell Mean Velocity and Peak Velocity During Deadlift and Hang-Clean in Resistance-Trained Females (2021); Product Donation Perch Fitness; Role: Co-Investigator; Funded: \$6,000
- 2. NeuroTracker: Visual Tracking Speed in College Soccer (2021); Team Software License Donation NeuroTracker; Role: Co-Investigator; Funded: \$5,000
- 3. Gunnar Optiks Gaming Glasses for Esports (2020); Product Donation Gunnar Optiks; Role: Co-Investigator; Funded: \$4,000
- 4. Impact of HaloSport on Esports Performance (2019); Product Donation Halo Neuroscience; Role: Co-Investigator; Funded: \$1,500
- 5. Impact of Eadvantage Supplement on Esport Performance (2018); Product Donation eAthlete Labs; Role: Co-Investigator; Funded: \$100
- 6. Impact of Casein Protein Containing Tryptophan on Sleep, HRV, and Energy Expenditure in Females (2018); Product Donation SDC Nutrition; Role: Co-Investigator; Funded: \$100

- 1. Comparison of Interlimb Asymmetries Measured by Unilateral and Bilateral Countermovement Jump Tests in the Evaluation of the Acute Effects of Match-Play on Interlimb Asymmetries in Collegiate NCAA DI Women's Soccer (2023); Directed Research Grant, National Strength and Conditioning Association (NSCA); Role: Principal Investigator; Requested (Not Funded): \$14,167
- 2. The Effects of Four Weeks of Unilateral Compared to Bilateral Back-Squat Velocity-Based Training on Strength, Power, and Change of Direction of Resistance-Trained Females (2023); Doctoral Student Grant, National Strength and Conditioning Association (NSCA); Role: Principal Investigator; Requested (Not Funded): \$14,739
- 3. The Effects of Four Weeks of Velocity-Based Training Compared to 1RM-Percentage-Based Training on Strength and Power of Resistance-Trained Females (2022); Directed Research Grant, National Strength and Conditioning Association (NSCA); Role: Principal Investigator; Requested (Not Funded): \$14,666
- 4. The Effects of Four Weeks of Velocity-Based Training Compared to 1RM-Percentage-Based Training on Strength and Power of Resistance-Trained Females (2022); Doctoral Student Grant, National Strength and Conditioning Association (NSCA); Role: Principal Investigator; Requested (Not Funded): \$14,666
- 5. Effects of Low-Impact Treadmills on Time-Trial Running Performance, Economy and Kinetics, Physiological and Perceptual Markers, and Perceived Enjoyment (2021); Doctoral Student Grant, National Strength and Conditioning Association (NSCA); Role: Principal Investigator; Requested (Not Funded): \$11,180
- 6. The Effect of Whole-Body Aerobic Resistance Training 'Exercise Snacks' on Health and Fitness in Sedentary Females (2021); Doctoral Student Grant, National Strength and Conditioning Association (NSCA); Role: Co-Investigator; Requested (Not Funded): \$8,563
- 7. Impact of Stryd Footpod on 5k Pacing Strategy (2019); Master's Student Grant, National Strength and Conditioning Association (NSCA); Role: Principal Investigator; Requested (Not Funded): \$5,750
- 8. Impact of Aerobic Exercise on Esports (2019); Young Investigator Grant, National Strength and Conditioning Association (NSCA); Role: Co-Investigator; Requested (Not Funded): \$10,800

Professional Certifications

2023 – Present	Limited X-Ray Machine Operator
2023 – Present	Hologic Clinical Applications Training
2021 – Present	Certified Strength and Conditioning Specialist (CSCS)
2018 – Present	First Aid/CPR/AED Certified Instructor, American Red Cross
2018 – Present	Radioactive Devices Safety Training
2017 – Present	CITI Training "Human Subjects Research"

Professional Affiliations/Memberships

American College of Sports Medicine Southeast American College of Sports Medicine National Strength and Conditioning Association American Red Cross Instructor Esports Research Network Association

Service

Service to Academic Discipline

2024 – Present	Sports Science Section Editor – International Journal of Exercise Science (IJES)
2024 – Present	Reviewer – PLOS ONE
2023 – Present	Reviewer – PeerJ Life & Environment
2023 – Present	Reviewer – Current Psychology
2018 – Present	Reviewer – International Journal of Exercise Science (IJES)
2021	Session Moderator – Esports Research Network Conference

Departmental, School or College

2023 - 2024 2019 - 2024 2021 - 2023	Strength & Conditioning Consultant - Ole Miss ROTC Program Exercise Science Program Representative: Graduate Fair at SEACSM Meeting Institutional Resource Center of School of Applied Sciences
2018 - 2023	Exercise Science Program Representative: Ole Miss Junior Preview Day and Admitted
2022	Student Day Exercise Science Program Representative: Mississippi Day
2020 - 2021	Campus Residence Life: Walking League Presentations
2019	Special Project: Cardiovascular Fitness Assessment (VO2 max) for Ole Miss Women's
	Soccer team
2019	Search Committee Member for the Program Manager of the Office of Research and
	Sponsored Programs
2019	Exercise Science Program Representative: Graduate Fair at ACSM Meeting
2018	SEACSM Undergraduate Student Bowl Competitor
2017 - 2018	Senator at the GSW's Student Government Association
2017 - 2018	President of the GSW Exercise Science and Wellness Club
2016 - 2018	GSW Health Fair
2016 - 2018	GSW Office of International Programs
2016 - 2017	Vice-President of the GSW Exercise Science and Wellness Club

Community Service

Oral Presentation – Nutritional Recommendations for High-School Soccer Players at
Lafayette High-School
Consulting Service Grant – Oxford High-School Women's Soccer
Furlow Charter Middle School Soccer Team - Coaching
First Responder Hurricane Relief
Magnolia Manor Senior Living
GSW 110 Minutes of Service
Sumter County Special Olympics
Senior Citizens Center of Americus, Georgia

Professional Development

2024 2024 2024 2024 2024 2022 – 2024 2023 2023 2023 2022 2022 2021 – 2022 2020 2019 – 2024	CITL Workshop – Advising 101: Important Policies, Forms, and Withdrawals CITL Book Club – A Pedagogy of Kindness CITL Workshop – AI Integration: Finding Your Path Forward CITL Workshop – Empowering Students to Use Campus Resources CITL Workshop – The Art of Balance Active Learning Lecture Integration HESRM's Graduate Assistant Development Series CETL Graduate Reading Group - Inclusive Teaching Strategies CETL Classroom Observation Workshop - Take Your Statistics to the Next Level with Chuck Huber Workshop - R for Graduate Students - 7-Week Series Workshop - Meta-Analysis with Michael Borenstein Committee Member for the HESRM Graduate Professional Development Group Lumen Circles' Belonging and Inclusive Teaching Fundamentals Course Workshop - Incorporate Written and Oral Communication in Class - 8-Week Series Online Teaching Endorsement: University of Mississippi	
Honors And Awards		
2024 2021 - 2022 2019 - 2020 2018 - 2020 2017 - 2018 2015 - 2018 2014 - 2018 2014 - 2018 2014 - 2018	SEACSM Doctoral Student Research Award - Third Place Mark Loftin Outstanding Doctoral Award in The School of Applied Sciences American Kinesiology Association Master's Student of the Year at the University of Mississippi Ryan Malone Graduate Assistantship Recipient Richard Litwhiler Award for Exercise Science and Wellness GSW Honors Program GSW President's List GSW Dean's List GSW Intercollegiate Men's Soccer Team Peach Belt Conference Scholar-Athlete of the Year, 2017-18 GSW Male Scholar-Athlete of the Year, 2017-18 Roy Lee Smith Award, 2017-18 GSW Men's Soccer Scholar-Athlete of the Year, 2017-18 Team Captain, 2017-18 Peach Belt Conference All-Academic Honors, 2014-18 Peach Belt Conference Presidential Honor Roll Gold Scholar, 2015-18 GSW All-time most career goals, 2014-2018 GSW All-time most career assists, 2014-2018 Scholarship Recipient, 2014-2018 First Team All-Conference, 2016 Second Team All-Conference, 2017	