

Background Information

Stephanie Kliethermes, PhD

Department of Orthopedics and Rehabilitation
University of Wisconsin School of Medicine and Public Health
Medical Foundation Centennial Building
1685 Highland Ave, Office 6171
Madison, WI 53705-2281

Office Phone: (608) 262-7800
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Formal Education

Undergraduate

Lawrence University, Appleton, WI
June 2007, Mathematics & English
Bachelor of Arts
Cum Laude

Graduate/Medical School

University of Iowa, Iowa City, IA
May 2009, Biostatistics
College of Public Health
Masters of Science

University of Iowa, Iowa City, IA
May 2013, Biostatistics
College of Public Health
Doctor of Philosophy

Specialty/Subspecialty Certification

University of Iowa, Iowa City, IA
May 2011, Education
College of Education
Graduate Certificate in College Teaching

Current Positions

2022-present *Associate Research Professor*
University of Wisconsin-Madison, Madison, WI
Division of Sports Medicine
Department of Orthopedics and Rehabilitation

2016-present *Research Director*
Collaborative Research Network
The American Medical Society for Sports Medicine

Past Positions *(Indicate length of service.)*

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

Academic Appointments

- 2016-2022 *Clinical Assistant Professor*
University of Wisconsin-Madison, Madison, WI
Division of Sports Medicine
Department of Orthopedics and Rehabilitation
- 2015-2016 *Assistant Professor*
Loyola University Medical Center, Maywood, IL
Biostatistics Core in Clinical Research Office
- 2013-2016 *Director*
Loyola University Medical Center, Maywood, IL
Biostatistics Core in Clinical Research Office
- 2013-2014 *Research Assistant Professor*
Loyola University Medical Center, Maywood, IL
Department of Public Health Sciences
- 2012-2013 *Graduate Research Assistant*
University of Iowa, Iowa City, IA
Department of Biostatistics
Department of Statistics
- 2010-2012 *Graduate Teaching Assistant*
University of Iowa, Iowa City, IA
Department of Biostatistics
Department of Statistics
- 2008-2010 *Graduate Research Assistant*
University of Iowa, Iowa City, IA
Center for Public Health Statistics

Honors and Awards (*You may list elite fellowship programs, those to which you were accepted on the basis of a competitive, as opposed to first-come, first-serve, application process. Examples include Phi Beta Kappa, Sigma Xi, AOA, Prize, Young Investigator Awards, Teaching Awards, etc.*)

- 2021 Recipient, Hank Chambers Award for Best Scientific Presentation –
ATC/Motion (2021 PRISM Virtual Annual Meeting)
*“The Impact of COVID-19 Related School Closures and Sport Cancellations
on the Health of Adolescent Athletes”*
- 2020 Recipient, Hank Chambers Award for Best Scientific Paper in Athletic
Training (2020 PRISM Annual Meeting)
*“Ankle brace use and risk of acute lower extremity injury among female high
school volleyball players”*

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For All Faculty Members

List all activities in chronological order

- 2020 Co-recipient, American Academy of Sports Physical Therapy (AASPT) Excellence in Research Award
“Prospective Validation and Responsiveness of the University of Wisconsin Running Injury and Recovery Index” Authors: Evan O. Nelson, DPT, PhD; Stephanie Kliethermes, PhD; Bryan Heiderscheid, PT, PhD, FAPTA
- 2019 Co-recipient, Oscar Ortiz Contreras Award
Given to authors of article which most contributed to the IUJ impact factor of previous year
- 2017 Marshall B Hulbert Distinguished Young Alumni Award, Lawrence University
- 2016 Delta Omega Honorary Society in Public Health
- 2013 Iowa Governor’s Volunteer Award, Girls on the Run
- 2013 Milford E. Barnes Award
given to most outstanding graduate student in his/her respective area of study
- 2012 University of Iowa Graduate College Fellowship
- 2012 University of Iowa Outstanding Teaching Assistant Award
honors teaching assistants who have demonstrated outstanding ability as teachers at the University of Iowa
- 2012 Iowa N.E.W. Leadership Institute Participant
selected to participate in 5 day intensive residential institute designed to empower women in all sectors of public leadership
- 2007 NCAA Woman of the Year – Midwest Conference Winner
- 2003-2007 15 time Letter Winner, Volleyball (Captain 2005-2007; MVP 2005-2006, 2006-2007), Basketball, Indoor & Outdoor Track and Field (Captain 2005-2007; MVP 2003-2004, 2004-2005), Lawrence University
- 2007 The Campus Life Award, Lawrence University
for leadership and service to Lawrence University
- 2007 Ruth Bateman Award, Lawrence University
recognizes excellence in scholarship, athletic ability and leadership by a woman athlete
- 2007 Gervais and Mary K Reed Award, Lawrence University
voted by peers for achievement and service by a senior woman
- 2007 Marion Read Award, Lawrence University

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

for outstanding contributions to Lawrence athletics

Professional Society Memberships (Note any memberships that are elected.)

Pediatric Research in Sports Medicine (PRiSM)

Peer-Reviewed Publications (Original research papers published in or accepted by peer-reviewed journals; list inclusive page numbers of each publication).

*Represents five publications from probationary period that represent most noteworthy scholarly contributions to my discipline

†Represents co-first author

Key:(a)=concept development and design, (b)=data acquisition, (c)=analysis,(d)=writing

1. Pendergast, J, **Kliethermes S**, Freburger, JK, Duffy PA. A Comparison of Health Care Use for Physician-Referred and Self-Referred Episodes of Outpatient Physical Therapy. *Health Services Research*. April 2012, 47:2 (633-654). DOI: 10.1111/j.1475-6773.2011.01324.x
2. Gfeller, K., Turner, C., Oleson, J., **Kliethermes, S.**, & Driscoll, V. (2012). Accuracy of cochlear implant recipients on speech reception in background music. *The Annals of otology, rhinology, and laryngology*, 121(12), 782.
3. See, R. L., Driscoll, V. D., Gfeller, K., **Kliethermes, S.**, & Oleson, J. (2013). Speech Intonation and Melodic Contour Recognition in Children With Cochlear Implants and With Normal Hearing. *Otology & neurotology: official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*, 34(3), 490.
4. Lutz, K. L., Holte, L., **Kliethermes, S. A.**, Stephan, C., & Mathews, K. D. (2013). Clinical and genetic features of hearing loss in facioscapulohumeral muscular dystrophy. *Neurology*, 10-1212.
5. **Kliethermes, S.**, & Oleson, J. (2014). A Bayesian approach to functional mixed-effects modeling for longitudinal data with binomial outcomes. *Statistics in medicine* (published online ahead of print). DOI: 10.1002/sim.6166
6. Pearce, M., Hilt, E., Rosenfeld, A., Zilliox, M., Thomas-White, K., Fok, C., **Kliethermes, S.**, Schreckenberge, P., Brubaker, L., Gai, X., Wolfe, A (Accepted for publication 2014) The Female Urinary Microbiome: A comparison of women with and without urgency urinary incontinence" *MBio*.
7. Scaglione, S., **Kliethermes, S.**, Cao G., Durazo, R. Luke, A., Volk, M. "The Epidemiology of Cirrhosis in the United States: A Population-Based Study" (Accepted for publication 2014) *Journal of Clinical Gastroenterology*.
8. Lowery, E., Kuhlmann, E., Mahoney, E., Dilling, D., **Kliethermes, S.**, Kovaks, E (Accepted for publication 2014) Heavy Alcohol Use in Lung Donors Increases the Risk for Primary Graft Dysfunction. *Alcoholism: Clinical and Experimental Research*.
9. Gunnala, V., Guo, R., Minutti, C., Durazo-Arvizu, R., Laporte, C., Mathews, H., **Kliethermes, S.**, Bhatia, R. (May 2015) Measurement of Salivary Cortisol level for the diagnosis of Critical Illness Related Corticosteroid Insufficiency in Children" *Pediatric Critical Care Medicine*. DOI: 10.1097/PCC.0000000000000361.
10. McCroskey, Z., **Kliethermes, S.**, Bahar, B., Barkan, G., Pambuccian, S., Wojcik, E.,

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For All Faculty Members

List all activities in chronological order

- (March/April 2015) "Is a consistent cytologic diagnosis of low-grade urothelial carcinoma in instrumented urinary tract cytologic specimens possible? A comparison between cytomorphologic features of low-grade urothelial carcinoma and non-neoplastic changes shows extensive overlap, making a reliable diagnosis impossible" *Journal of the American Society of Cytopathology* DOI: <http://dx.doi.org/10.1016/j.jasc.2014.10.006>
11. Layden JE, Phillips RO, Owusu-Ofori S, Sarfo FS, **Kliethermes S**, Mora N, Owusu D, Nelson K, Opare-Sem O, Dugas L, Luke A, Shoham D, Forbi JC, Khudyakov YE, Cooper RS. High Frequency of Active HCV Infection among Seropositive Cases in West Africa and Evidence for Multiple Transmission Pathways. *Clin Infect Dis*. 2014 Dec 4. pii: ciu965.
 12. McCroskey, Z., Pambuccian, **S.**, **Kliethermes**, S., Antic, T., Cohen, M., Barkan, G., Wojcik, E., (2015) "Accuracy and Interobserver Variability of the Cytologic Diagnosis of Low Grade Urothelial Carcinoma in Instrumented Urinary Tract Cytology Specimens" *American Journal of Clinical Pathology*
 13. Blackwell, R. H., Ellimoottil, C., Bajic, P., Kothari, A., Zapf, M., **Kliethermes, S.**, & Gupta, G. N. (2015). New Onset Postoperative Atrial Fibrillation Predicts Long-Term Cardiovascular Events Following Radical Cystectomy. *The Journal of Urology*.
 14. Sobol, U., Go, A., **Kliethermes, S.**, Bakhos, S., Rodriguez, T., Smith, S., Parthasarathy, M., Stiff, P. (Sept 2015) "A Prospective Investigation of Cell Dose in Single Unit Umbilical Cord Blood Transplantation for Adults with High-risk Hematologic Malignancies" *Bone Marrow Transplantation*
 15. Kothari, A., Liles, J., Holmes, C., Zapf, M., Blackwell, R., **Kliethermes, S.**, Kuo, P., Luchette, F., (Aug 2015) "'Right Place at the Right Time' Impacts Outcomes for Acute Intestinal Obstruction" *Surgery*. DOI: 10.1016/j.surg.2015.06.032
 16. Atiase, Y., Farni, K., Plange-Rhule, J., Luke, A., Bovet, P., Forrester, T., Lambert, EV., Levitt, NS., **Kliethermes, S.**, Cao, G., Durazo-Arvizu, R., Cooper, R., Dugas, R (Accepted for Publication, Sept 2015) "A Comparison of indices of glucose metabolism in five black populations: Data from Modeling the Epidemiologic Transition Study (METS)" *BMC Public Health*
 17. Thomas-White, K., Hilt, E., Fok C., Pearce, M., Mueller, E., **Kliethermes S.**, Jacobs, K., Zilliox, M., Brincat, C., Price, T., Kuffel, G., Schreckenberger, P., Gai, X., Brubaker, L., Wolfe, A. (Accepted for Publication, Sept 2015) "Incontinence Medication Response Relates to the Female Urinary Microbiota" *International Urogynecology Journal* 2015 Sep 30. [Epub ahead of print]
 18. Jawajar, A., **Kliethermes, S.**, Okur, G., Lu, Y., Lomasney, L. "Gastrocnemius Tendinosis- A Frequent Finding on MRI Knee Examination" *Eur J Radiol*. 2015 Dec;84(12):2579-85. doi: 10.1016/j.ejrad.2015.09.018. Epub 2015 Sep 25.
 19. Shahid R, Vigilante M, Deyro H, Reyes I, Gonzalez B, **Kliethermes S.**, "Risk Factors for Failed Newborn Otoacoustic Emissions Hearing Screen" *Clin Pediatr (Phila)*. 2015 Nov 3. pii: 0009922815615826. [Epub ahead of print]
 20. Harkenrider, M., Grover S., Erickson, B., Viswanathan, A., Small, C., **Kliethermes, S.**, Small, W., "Vaginal Brachytherapy for Postoperative Endometrial Cancer: 2014 Survey of the American Brachytherapy Society" *Brachytherapy*. 2015 Nov 24. pii: S1538-4721(15)00563-2. doi: 10.1016/j.brachy.2015.09.012. [Epub ahead of print]
 21. Bates, C., Bohnert, A., Ward, A., Burdette, K., **Kliethermes, S.**, Silton, R., Welch, S., & Dugas L. Sleep is in for summer: Patterns of sleep and physical activity in urban minority girls. *Journal of Pediatric Psychology*. 29 February 2016.
 22. Price, T., Dune, T., Hilt, E., Thomas-White, K., **Kliethermes, S.**, Brincat, C., Brubaker, L.,

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

- Wolfe, A., Mueller, E., Schreckenberger, P., “The Enhanced Clinical Urine Culture: Improves Detection of Clinically Relevant Microorganisms” *Journal of Clinical Microbiology*, March 2016.
23. Schneiderman, B., **Kliethermes, S.**, Nystrom, L., “Survival in Mesenchymal Chondrosarcoma: 205 cases from the Surveillance, Epidemiology and End Results (SEER) database” *Clinical Orthopaedics and Related Research*, March 2016.
24. **Kliethermes, S.**, Ma, M., Purtell, C., Balasubramanian, N., Gonzalez, B., Layden, T.J., Cotler, S., (accepted April 2016) “An Assessment of Racial Differences in the Upper Limits of Normal ALT Levels in Children and the Effect of Obesity on Elevated Values” *Pediatric Obesity*
25. Mora, N†., Adams, W†., **Kliethermes, S†.**, Dugas., L, Small, C., Nde, H., Layden, J. “A synthesis of Hepatitis C prevalence estimates in Sub-Saharan Africa: 2000-2013”. *BMC Infectious Diseases*, 13 June 2016.
26. Finkler ES, Fogel HA, Kroin E, **Kliethermes S**, Wu K, Nystrom LM, Schiff AP. Factors influencing the number of applications submitted per applicant to orthopedic residency programs. *Med Educ Online*. 2016 Jul 21;21:31865. doi: 10.3402/meo.v21.31865. PMID: 27448634; PMCID: PMC4958136. (a) 50%, (b) 0%, (c) 100%, (d) 40%. My primary role was as collaborative biostatistician and mentor to lead author.
27. Snarskis C, Calaway AC, Wang L, Gondim D, Hughes I, Idrees MT, **Kliethermes S**, Maniar V, Picken MM, Boris RS, Gupta GN. Standardized Reporting of Microscopic Renal Tumor Margins: Introduction of the Renal Tumor Capsule Invasion Scoring System. *J Urol*. 2017 Jan;197(1):23-30. doi: 10.1016/j.juro.2016.07.086. Epub 2016 Aug 3. PMID: 27497792. (a) 20%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician and mentor to lead author.
- Thomas-White KJ, **Kliethermes S†**, Rickey L, Lukacz ES, Richter HE, Moalli P, Zimmern P, Norton P, Kusek JW, Wolfe AJ, Brubaker L; National Institute of Diabetes and Digestive and Kidney Diseases Urinary Incontinence Treatment Network. Evaluation of the urinary microbiota of women with uncomplicated stress urinary incontinence. *Am J Obstet Gynecol*. 2017 Jan;216(1):55.e1-55.e16. doi: 10.1016/j.ajog.2016.07.049. Epub 2016 Aug 4. PMID: 27498309; PMCID: PMC5182144. (a) 50%, (b) 0%, (c) 100%, (d) 50%. My primary role was as collaborative biostatistician.
28. Brownlee SA, Blackwell RH, Blanco BA, Zapf MAC, **Kliethermes S**, Gupta GN, Kuo PC, Kothari AN. Impact of Post-Hospital Syndrome on Outcomes Following Elective, Ambulatory Surgery. *Ann Surg*. 2017 Aug;266(2):274-279. doi: 10.1097/SLA.0000000000001965. PMID: 27537532; PMCID: PMC5315678. (a) 10%, (b) 0%, (c) 100%, (d) 20%. My primary role was as collaborative biostatistician.
29. Harkenrider MM, Adams W, Block AM, **Kliethermes S**, Small W Jr, Grover S. Improved overall survival with adjuvant radiotherapy for high-intermediate and high risk Stage I endometrial cancer. *Radiother Oncol*. 2017 Mar;122(3):452-457. doi: 10.1016/j.radonc.2016.12.003. Epub 2016 Dec 21. PMID: 28012794. (a) 20%, (b) 0%, (c) 100%, (d) 30% My primary role was as collaborative biostatistician.
30. Gray, A., Grushchak, S., Mudaliar, K., Nishimura, M., **Kliethermes, S.**, Carey, K., Hutchens, K., “The Microenvironment in Primary Cutaneous Melanomas: Immunophenotypic Characterization of Lymphocytes and Evaluation for T Regulatory Cells and Myeloid Derived Suppressor Cells in a Subset of Tumor Infiltrating T Lymphocytes Associated with Primary Melanocytic Tumor Regression” *Melanoma Research* 2016; 27(2): 104-109. (a) 20%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

biostatistician and mentor to junior biostatistician.

31. Dugas LR, **Kliethermes S**, Plange-Rhule J, Tong L, Bovet P, Forrester TE, Lambert EV, Schoeller DA, Durazo-Arvizu RA, Shoham DA, Cao G, Brage S, Ekelund U, Cooper RS, Luke A. Accelerometer-measured physical activity is not associated with two-year weight change in African-origin adults from five diverse populations. *PeerJ*. 2017 Jan 19;5:e2902. doi: 10.7717/peerj.2902. PMID: 28133575; PMCID: PMC5251933. (a) 30%, (b) 15%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
32. Scaglione SJ, Metcalfe L, **Kliethermes S**, Vasilyev I, Tsang R, Caines A, Mumtaz S, Goyal V, Khalid A, Shoham D, Markossian T, Luke A, Underwood H, Cotler SJ. Early Hospital Readmissions and Mortality in Patients With Decompensated Cirrhosis Enrolled in a Large National Health Insurance Administrative Database. *J Clin Gastroenterol*. 2017 Oct;51(9):839-844. doi: 10.1097/MCG.0000000000000826. PMID: 28383303. (a) 80%, (b) 70%, (c) 100%, (d) 60%. *My primary role was as collaborative biostatistician.*
33. Strotman PK, Reif TJ, **Kliethermes SA**, Sandhu JK, Nystrom LM. Dedifferentiated chondrosarcoma: A survival analysis of 159 cases from the SEER database (2001-2011). *J Surg Oncol*. 2017 Aug;116(2):252-257. doi: 10.1002/jso.24650. Epub 2017 Apr 18. PMID: 28420036. (a) 20%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
34. Dugas LR, Forrester TE, Plange-Rhule J, Bovet P, Lambert EV, Durazo-Arvizu RA, Cao G, Cooper RS, Khatib R, Tonino L, Riesen W, Korte W, **Kliethermes S**, Luke A. Cardiovascular risk status of Afro-origin populations across the spectrum of economic development: findings from the Modeling the Epidemiologic Transition Study. *BMC Public Health*. 2017 May 12;17(1):438. doi: 10.1186/s12889-017-4318-4. PMID: 28499375; PMCID: PMC5429531. (a) 20%, (b) 0%, (c) 70%, (d) 20%. *My primary role was as collaborative biostatistician.*
35. Afshar M, Netzer G, Mosier MJ, Cooper RS, Adams W, Burnham EL, Kovacs EJ, Durazo-Arvizu R, **Kliethermes S**. The Contributing Risk of Tobacco Use for ARDS Development in Burn-Injured Adults With Inhalation Injury. *Respir Care*. 2017 Nov;62(11):1456-1465. doi: 10.4187/respcare.05560. Epub 2017 Sep 12. PMID: 28900039; PMCID: PMC6373849. (a) 80%, (b) 0%, (c) 100%, (d) 50%. *My primary role was as collaborative biostatistician and senior author mentor to the first author.*
36. Dune TJ, Price TK, Hilt EE, Thomas-White KJ, **Kliethermes S**, Brincat C, Brubaker L, Schreckenberger P, Wolfe AJ, Mueller ER. Urinary Symptoms and Their Associations With Urinary Tract Infections in Urogynecologic Patients. *Obstet Gynecol*. 2017 Oct;130(4):718-725. doi: 10.1097/AOG.0000000000002239. PMID: 28885414; PMCID: PMC5679107. (a) 40%, (b) 0%, (c) 100%, (d) 50%. *My primary role was as collaborative biostatistician.*
37. Hannick JH, Adams W, Sandhu J, **Kliethermes S**, Mazur DJ, Meeks JJ, Sobek S, Coogan CL, Sadaf A, Quek ML, Schulwolf E. Physician Perceptions of Patient Health: A Comparative Analysis between Urologist and Hospitalist Perceptions of Need for Inpatient Hospitalist Comanagement Following Radical Cystectomy. *Curr Urol*. 2017 Nov;11(1):9-15. doi: 10.1159/000447188. Epub 2017 Nov 30. PMID: 29463971; PMCID: PMC5814784. (a) 20%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
38. Kliethermes C, Blazek K, Ali K, Nijjar JB, **Kliethermes S**, Guan X. Postoperative Pain After Single-Site Versus Multiport Hysterectomy. *JSLs*. 2017 Oct-Dec;21(4):e2017.00065. doi: 10.4293/JSLs.2017.00065. PMID: 29238155; PMCID: PMC5721145. (a) 20%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
39. Kliethermes C, Blazek K, Ali K, Nijjar JB, **Kliethermes S**, Guan X. A Randomized

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

- Controlled Trial for Abdominal Binder Use after Laparoendoscopic Single-Site Surgery. *J Minim Invasive Gynecol.* 2018 Jul-Aug;25(5):842-847. doi: 10.1016/j.jmig.2017.12.021. Epub 2018 Jan 8. PMID: 29325967. (a) 20%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
40. Reif TJ, Strotman PK, **Kliethermes SA**, Miller BJ, Nystrom LM. No consensus on implant choice for oligometastatic disease of the femoral head and neck. *J Bone Oncol.* 2018 Feb 27;12:14-18. doi: 10.1016/j.jbo.2018.02.006. PMID: 29850399; PMCID: PMC5966516. (a) 40%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
41. Snedden TR, Scerpella J, **Kliethermes SA**, Norman RS, Blyholder L, Sanfilippo J, McGuine TA, Heiderscheid B. Sport and Physical Activity Level Impacts Health-Related Quality of Life Among Collegiate Students. *Am J Health Promot.* 2019 Jun;33(5):675-682. doi: 10.1177/0890117118817715. Epub 2018 Dec 26. PMID: 30586999; PMCID: PMC7213817. (a) 40%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
42. **Kliethermes SA**, Dugas LR, LaBella CR, Alawad N, Pasulka J, Jayanthi N. Benefits and challenges of serial sports training risk assessment and counselling in kids: the T.R.A.C.K. randomised intervention study. *Br J Sports Med.* 2019 Feb;53(4):243-249. doi: 10.1136/bjsports-2018-099863. Epub 2018 Nov 17. PMID: 30448778. (a) 15%, (b) 0%, (c) 100%, (d) 30%. *I served as lead author and provided intellectual framework, biostatistics support and manuscript development.*
43. Dugas LR, Bernabé BP, Priyadarshini M, Fei N, Park SJ, Brown L, Plange-Rhule J, Nelson D, Toh EC, Gao X, Dong Q, Sun J, **Kliethermes S**, Gottel N, Luke A, Gilbert JA, Layden BT. Decreased microbial co-occurrence network stability and SCFA receptor level correlates with obesity in African-origin women. *Sci Rep.* 2018 Nov 20;8(1):17135. doi: 10.1038/s41598-018-35230-9. PMID: 30459320; PMCID: PMC6244201. (a) 10%, (b) 0%, (c) 20%, (d) 20%. *My primary role was as collaborative biostatistician.*
44. Dune TJ, **Kliethermes S**, Mueller ER, Fitzgerald CM, Brubaker L, Brincat CA. Screening for Microscopic Hematuria in a Urogynecologic Population. *Female Pelvic Med Reconstr Surg.* 2020 Jun;26(6):382-386. doi: 10.1097/SPV.0000000000000733. PMID: 31107342. (a) 30%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
45. * McGuine T, Post E, Pfaller AY, Hetzel S, Schwarz A, Brooks MA, **Kliethermes SA**. Does soccer headgear reduce the incidence of sport-related concussion? A cluster, randomised controlled trial of adolescent athletes. *Br J Sports Med.* 2020 Apr;54(7):408-413. doi: 10.1136/bjsports-2018-100238. Epub 2019 May 14. PMID: 31088784; PMCID: PMC7146941. (a) 20%, (b) 0%, (c) 100%, (d) 30%. *I served as senior author and provided biostatistics support and manuscript development.*
46. Stiffler-Joachim MR, Wille CM, **Kliethermes SA**, Johnston W, Heiderscheid BC. Foot Angle and Loading Rate during Running Demonstrate a Nonlinear Relationship. *Med Sci Sports Exerc.* 2019 Oct;51(10):2067-2072. doi: 10.1249/MSS.0000000000002023. PMID: 31525170. (a) 20%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
47. McGuine TA, Pfaller A, **Kliethermes S**, Schwarz A, Hetzel S, Hammer E, Broglio S. The Effect of Sport-Related Concussion Injuries on Concussion Symptoms and Health-Related Quality of Life in Male and Female Adolescent Athletes: A Prospective Study. *Am J Sports Med.* 2019 Dec;47(14):3514-3520. doi: 10.1177/0363546519880175. Epub 2019 Oct 24. PMID: 31647876. (a) 40%, (b) 0%, (c) 80%, (d) 30%. *My primary role was as collaborative biostatistician.*

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For All Faculty Members

List all activities in chronological order

48. Bidani AK, Polichnowski AJ, Licea-Vargas H, Long J, **Kliethermes S**, Williamson GA, Griffin KA. BP Fluctuations and the Real-Time Dynamics of Renal Blood Flow Responses in Conscious Rats. *J Am Soc Nephrol*. 2020 Feb;31(2):324-336. doi: 10.1681/ASN.2019070718. Epub 2019 Dec 2. PMID: 31792155; PMCID: PMC7003298. (a) 10%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
49. ***Kliethermes SA**, Nagle K, Côté J, Malina RM, Faigenbaum A, Watson A, Feeley B, Marshall SW, LaBella CR, Herman DC, Tenforde A, Beutler AI, Jayanthi N. Impact of youth sports specialisation on career and task-specific athletic performance: a systematic review following the American Medical Society for Sports Medicine (AMSSM) Collaborative Research Network's 2019 Youth Early Sport Specialisation Summit. *Br J Sports Med*. 2020 Feb;54(4):221-230. doi: 10.1136/bjsports-2019-101365. Epub 2019 Nov 18. PMID: 31740483. *British J Sports Medicine* Nov 2019 (epub ahead of print). (a) 90%, (b) 90%, (c) 90%, (d) 80%. *I served as lead author and provided intellectual framework, biostatistics support and manuscript development.*
50. Jayanthi N, **Kliethermes S**, Dugas L, Pasulka J, Iqbal S, LaBella C. Risk of Injuries Associated With Sport Specialization and Intense Training Patterns in Young Athletes: A Longitudinal Clinical Case-Control Study. *Orthop J Sports Med*. 2020 Jun 25;8(6):2325967120922764. doi: 10.1177/2325967120922764. PMID: 32637428; PMCID: PMC7318830. (a) 10%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
51. Watson A, Post E, Biese K, **Kliethermes S**, Brooks MA, Bell D. Decreased Physical Activity and Sleep, Not Sport Specialization, Predict Illness in Middle School Athletes. *Sports Health*. 2021 Jan/Feb;13(1):25-30. doi: 10.1177/1941738120927599. Epub 2020 Jul 6. PMID: 32631208; PMCID: PMC7734356. (a) 30%, (b) 0%, (c) 50%, (d) 30%. *My primary role was as collaborative biostatistician.*
52. Biese KM, McGuine TA, **Kliethermes SA**, Bell DR, Post EG, Watson AM, Brooks MA, Lang PJ. Sport specialization and sport participation opportunities and their association with injury history in female high school volleyball athletes. *Phys Ther Sport*. 2020 Sep;45:86-92. doi: 10.1016/j.ptsp.2020.06.005. Epub 2020 Jul 12. PMID: 32717700. (a) 30%, (b) 10%, (c) 90%, (d) 30%. *My primary role was as collaborative biostatistician and mentor to lead author.*
53. Nelson EO, **Kliethermes S**, Heiderscheit B. Construct Validity and Responsiveness of the University of Wisconsin Running Injury and Recovery Index. *J Orthop Sports Phys Ther*. 2020 Dec;50(12):702-710. doi: 10.2519/jospt.2020.9698. Epub 2020 Oct 28. PMID: 33115339. (a) 10%, (b) 0%, (c) 10%, (d) 20%. *My primary role was as collaborative biostatistician and mentor to lead author.*
54. Stiffler-Joachim MR, Wille C, **Kliethermes S**, Heiderscheit B. Factors Influencing Base of Gait During Running: Consideration of Sex, Speed, Kinematics, and Anthropometrics. *J Athl Train*. 2020 Dec 1;55(12):1300-1306. doi: 10.4085/1062-6050-565-19. PMID: 33064810; PMCID: PMC7740069. (a) 30%, (b) 0%, (c) 30%, (d) 30%. *My primary role was as collaborative biostatistician and mentor to lead author.*
55. McGuine TA, Post E, Biese K, **Kliethermes S**, Bell D, Watson A, Brooks A, Lang P. The Incidence and Risk Factors for Injuries in Girls Volleyball: A Prospective Study of 2072 Players. *J Athl Train*. 2020 Nov 5. doi: 10.4085/182-20. Epub ahead of print. PMID: 33150377. (a) 30%, (b) 10%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
56. **Kliethermes SA**, Marshall SW, LaBella CR, Watson AM, Brenner JS, Nagle KB, Jayanthi

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

- N, Brooks MA, Tenforde AS, Herman DC, DiFiori JP, Beutler AI. Defining a Research Agenda for Youth Sport Specialization in the United States: The AMSSM Youth Early Sport Specialization Summit. *Clin J Sport Med.* 2021 Mar 1;31(2):103-112. doi: 10.1097/JSM.0000000000000900. PMID: 33587486. (a) 80%, (b) NA (c) NA (d) 80%. *I served as lead author and provided intellectual framework and manuscript development.*
57. ***Kliethermes SA**, Marshall SW, LaBella CR, Watson AM, Brenner JS, Nagle KB, Jayanthi N, Brooks MA, Tenforde AS, Herman DC, DiFiori JP, Beutler AI. Defining a research agenda for youth sport specialisation in the USA: the AMSSM Youth Early Sport Specialization Summit. *Br J Sports Med.* 2021 Feb;55(3):135-143. doi: 10.1136/bjsports-2020-102699. PMID: 33462103. (a) 80%, (b) NA (c) NA (d) 80%. *I served as lead author and provided intellectual framework, biostatistics support and manuscript development.*
58. Biese KM, **Kliethermes SA**, Watson AM, McGuine TA, Lang PJ, Bell DR, Alison Brooks M. Musculoskeletal Injuries and Their Association With Previous Concussion History: A Prospective Study of High School Volleyball and Soccer Players. *Am J Sports Med.* 2021 May;49(6):1634-1641. doi: 10.1177/0363546521997116. Epub 2021 Mar 15. PMID: 33719583. (a) 30%, (b) 0%, (c) 90%, (d) 30%. *My primary role was as collaborative biostatistician and mentor to lead author.*
59. McGuine TA, Biese KM, Petrovska L, Hetzel SJ, Reardon C, **Kliethermes S**, Bell DR, Brooks A, Watson AM. Mental Health, Physical Activity, and Quality of Life of US Adolescent Athletes During COVID-19-Related School Closures and Sport Cancellations: A Study of 13000 Athletes. *J Athl Train.* 2021 Jan 1;56(1):11-19. doi: 10.4085/1062-6050-0478.20. PMID: 33290516; PMCID: PMC7863599. (a) 20%, (b) 0%, (c) 50%, (d) 20%. *My primary role was as collaborative biostatistician.*
60. Stiffler-Joachim MR, Lukes DH, **Kliethermes SA**, Heiderscheid BC. Lower Extremity Kinematic and Kinetic Asymmetries during Running. *Med Sci Sports Exerc.* 2021 May 1;53(5):945-950. doi: 10.1249/MSS.0000000000002558. PMID: 33148971. (a) 30%, (b) 0%, (c) 50%, (d) 30%. *My primary role was as collaborative biostatistician and mentor to lead author.*
61. Herman DC, Nelson VR, Montalvo AM, Myer GD, Brenner JS, DiFiori, JP, Jayanthi NA., Marshall SW., **Kliethermes SA.**, Beutler, AI., Tenforde AS. "Systematic Review of Current Health Organization Guidelines following the AMSSM 2019 Youth Sport Research Summit" *Sports Health* (Accepted 11/2020; in press). (a) 30%, (b) 0% (c) N/A (d) 20%. *My primary role was as collaborative biostatistician.*
62. Beck, AP, **Kliethermes SA.**, Trotter, CA., Lang, PJ, Scerpella, TA. "Medial Patellofemoral Ligament Repair for Recurrent Patellar Instability: Successful Outcomes in Patients with Low Coronal Malalignment and Normal Patellar Height" *Orthopedics* (Accepted 2020, in press). (a) 30%, (b) 0%, (c) 100%, (d) 30%. *My primary role was as collaborative biostatistician.*
63. Watson A, Biese K, **Kliethermes SA**, Post E, Brooks MA, Lang PJ, Bell DR, Haraldsdottir K, McGuine T. Impact of in-season injury on quality of life and sleep duration in female youth volleyball athletes: a prospective study of 2073 players. *Br J Sports Med.* 2021 Aug;55(16):912-916. doi: 10.1136/bjsports-2020-103331. Epub 2021 Feb 24. PMID: 33627336. (a) 30%, (b) 0%, (c) 50%, (d) 30%. *My primary role was as collaborative biostatistician.*
64. Bell DR, Snedden T, Biese K, Nelson E, Watson A, McGuine T, Brooks MA, Brown R, **Kliethermes SA.** Consensus Definition of Sport Specialization in Youth Athletes Using a Delphi Approach. *J Athl Train.* 2021 Mar 31. doi: 10.4085/1062-6050-0725.20. Epub ahead

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

- of print. PMID: 33787895. (a) 50%, (b) 60%, (c) 80%, (d) 40%. I served as senior author and provided intellectual framework, biostatistics support and manuscript development.
65. Behlmer RJ, Whiting PS, **Kliethermes SA**, Wendt L, Simske NM, Sato EH, Doro CJ, Goodspeed DC, Lang GJ. Reduction techniques for intramedullary nailing of tibial shaft fractures: a comparative study. *OTA Int.* 2021 Feb 2;4(1):e095. doi: 10.1097/OI9.000000000000095. PMID: 33937718; PMCID: PMC8016605.. (a) 20%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician.
66. Knurr KA, **Kliethermes SA**, Stiffler-Joachim MR, Cobian DG, Baer GS, Heiderscheid BC. Running Biomechanics Before Injury and 1 Year After Anterior Cruciate Ligament Reconstruction in Division I Collegiate Athletes. *Am J Sports Med.* 2021 Aug;49(10):2607-2614. doi: 10.1177/03635465211026665. Epub 2021 Jul 14. PMID: 34260290; PMCID: PMC8338897. (a) 20%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician and mentor to lead author.
67. Behlmer RJ, Simske NM, Graf RM, **Kliethermes SA**, Lang GJ, Whiting PS. Diagnosing Fractures of the Distal Tibial Articular Surface in Tibia Shaft Fractures: Is Computed Tomography Always Necessary? *J Orthop Trauma.* 2021 Sep 1;35(9):485-489. doi: 10.1097/BOT.0000000000002135. PMID: 33840735. (a) 20%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician.
68. Watson A, McGuine T, Lang P, Post E, Biese K, **Kliethermes S**, Brooks MA, Bell D. The Relationships Between Sport Specialization, Sleep, and Quality of Life in Female Youth Volleyball Athletes. *Sports Health.* 2021 May 27;19417381211014867. doi: 10.1177/19417381211014867. Epub ahead of print. PMID: 34043487. (a) 20%, (b) 0%, (c) 40%, (d) 30%. My primary role was as collaborative biostatistician.
69. McGuine TA, Biese K, Hetzel SJ, Petrovska L, **Kliethermes S**, Reardon CL, Bell DR, Brooks MA, Watson AM. Changes in the Health of Adolescent Athletes: A Comparison of Health Measures Collected Before and During the CoVID-19 Pandemic. *J Athl Train.* 2021 Apr 22;56(8):836–44. doi: 10.4085/1062-6050-0739.20. Epub ahead of print. PMID: 33887766; PMCID: PMC8359721. (a) 30%, (b) 0%, (c) 40%, (d) 30%. My primary role was as collaborative biostatistician.
70. McGuine TA, Biese K, Hetzel SJ, Schwarz A, **Kliethermes S**, Reardon CL, Bell DR, Brooks MA, Watson Md AM. High School Sports During the CoVID-19 Pandemic: The Impact of Sport Participation on the Health of Adolescents. *J Athl Train.* 2021 May 26. doi: 10.4085/1062-6050-0121.21. Epub ahead of print. PMID: 34038936. (a) 30%, (b) 0%, (c) 40%, (d) 30%. My primary role was as collaborative biostatistician.
71. *Moulson N, Petek BJ, Drezner JA, Harmon KG, **Kliethermes SA**, Patel MR, Baggish AL; ORCCA Investigators. SARS-CoV-2 Cardiac Involvement in Young Competitive Athletes. *Circulation.* 2021 Apr 17. doi: 10.1161/CIRCULATIONAHA.121.054824. Epub ahead of print. PMID: 33866822. (a) 30%, (b) 30%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
72. ***Kliethermes SA**, Stiffler-Joachim MR, Wille CM, Sanfilippo J, Zavala P, Heiderscheid BC. Bone stress injury is prospectively associated with step rate in collegiate cross country. *Br J Sports Med* 2021 May 14. doi: 10.1136/bjsports-2020-103833. Online ahead of print. PMID: 33990294. (a) 25%, (b) 0%, (c) 90%, (d) 40%. I served as lead author and contributed to intellectual development, biostatistics support and manuscript development.
73. Harmon, KG, de St. Maurice, AM., Brady, AC, Swaminatha, S., Aukerman, DF., Rueda, MA., Terrell, K., Cohen, RP., Gamradt, SC., Henry, SD., Huston, LM., McAllister, DR., McCarty, KM., Pass, AN., Paul, SR., Petron, DJ., **Kliethermes, SA**. Surveillance Testing

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For All Faculty Members

List all activities in chronological order

- for SARS-COV-2 Infection in an Asymptomatic Athlete Population; A Prospective Cohort Study with 123,362 Tests and 23,463 Paired RT-PCR/Antigen Samples – *BMJ Open Sport & Exercise Medicine* (Accepted May 2021). (a) 25%, (b) 0%, (c) 90%, (d) 30%. My primary role was as collaborative biostatistician.
74. Stiffler-Joachim, M.R.; **Kliethermes, S.A.**; Martin, J.A.; Tanaka, C.S.; Benkert, R.; Heiderscheit, B.C. Longitudinal Changes in Running Gait Asymmetries and Their Relationship to Personal Record Race Times in Collegiate Cross Country Runners. *Symmetry* 2021 (Accepted August 2021). (a) 25%, (b) 0%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
75. Petek B., Moulson N., Baggish, A., **Kliethermes S.**, Patel, M., Churchill T., Harmon, K., Drezner, J. “Prevalence and Clinical Implications of Persistent or Exertional Cardiopulmonary Symptoms Following SARS-CoV-2 Infection in 2597 Collegiate Athletes: A Study from the Outcomes Registry for Cardiac Conditions in Athletes (ORCCA)” *BJSM*. Accepted 10/20/2021. (a) 20%, (b) 10%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
76. Toresdahl, BG., Robinson, JN, **Kliethermes, SA**, Dixit S., Metzl JD., Quijano B., Fontana, MA. “Increased Incidence of Injury Among Runners with COVID-19” *Sports Health* Accepted 10/22/2021. (a) 25%, (b) 0%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
77. Robinson, JN, Fontana, MA, Metzl JD, Dixit S., **Kliethermes, SA.**, Quijano B., Toresdahl, B.G “Running Races During the COVID-19 Pandemic: A Survey of the Running Community” *BMJ Open Sport and Exercise Medicine*. November 2021. (a) 20%, (b) 0%, (c) 30%, (d) 30%. My primary role was as collaborative biostatistician.
78. Suer, MJ., Phillips, NR., **Kliethermes, SA.**, Scerpella, TA, Sehgal, N “Baseline Kinesiophobia and Pain Catastrophizing Scores Predict Prolonged Postoperative Shoulder Pain” *Pain Physician*. Accepted November 2021. (a) 25%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician.
79. Petek BJ, Moulson N, Drezner JA, Harmon KG, Klein CF, **Kliethermes SA**, Churchill TW, Patel MR, Baggish AL. Echocardiographic Reporting of Coronary Artery Origins in Young Competitive Athletes. *JACC: Cardiovascular Imaging*. Jan 12, 2022. Epublished DOI: 10.1016/j.jcmg.2021.10.019 (a) 20%, (b) 10%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
80. Petek BJ, Moulson N, Baggish AL, Drezner JA, Harmon KG, Klein CF, **Kliethermes SA**, Patel MR, Churchill TW. Electrocardiographic Findings in Young Competitive Athletes Before and After SARS-CoV-2 Infection. *Journal of Electrocardiology*. Accepted February 2022. (a) 25%, (b) 0%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
81. Wille, CM., Stiffler-Joachim, MR., **Kliethermes, SA.**, Sanfilippo, J., Tanaka, CS., Heiderscheit, BC. “Preseason eccentric strength is not associated with future hamstring strain injury: A prospective study in male and female collegiate athletes” *MSSE*. Accepted March 2022. (a) 30%, (b) 10%, (c) 80%, (d) 30%. My primary role was as collaborative biostatistician, contributing to intellectual framework and manuscript development.
82. Schmida, E., Wille, CM., Stiffler-Joachim, MR., **Kliethermes, SA.**, Heiderscheit, BC. “Vertical Loading rate is not associated with running injury, regardless of calculation method” *MSSE*. Accepted March 2022. (a) 25%, (b) 0%, (c) 70%, (d) 30%. My primary role was as collaborative biostatistician.

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For All Faculty Members

List all activities in chronological order

83. Petek BJ, Moulson N, Drezner JA, Harmon KG, **Kliethermes SA**, Churchill TW, Patel MR, Baggish AL. Cardiovascular Outcomes in Collegiate Athletes Following SARS-CoV-2 infection: 1-Year Follow-up from the Outcomes Registry for Cardiovascular Conditions in Athletes. *Circulation*. Accepted March 2022. (a) 25%, (b) 0%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
84. Knurr, K....Kliethermes SA. Distal Femur Bone Mineral Density Before Injury is Not Restored 2 Years After Anterior Cruciate Ligament Reconstruction in Division I Collegiate Athletes *AJSM*. Accepted March 2022.
85. Otis C., Hainline, B., Harwood, C., Jayanthi, N., Jensen R., Keber, A., Livengood, T., Stroia, K., Quinn, A., Vitkova, S., **Kliethermes, SA.**, "A 20-year longitudinal review of the Women's Tennis Association Tour age eligibility rule and professional development programs" *BJSM*. Accepted April 2022 (a) 20%, (b) 0%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.
86. Moulson N, Petek BJ, Drezner JA, Harmon KG, **Kliethermes SA**, Churchill TW, Mellacheruvu P, Patel MR, Baggish AL. Cardiac Troponin Testing as a Component of Return to Play Cardiac Screening in Young Competitive Athletes Following SARS-CoV-2 infection. *Journal of the American Heart Association*. 2022. (a) 25%, (b) 0%, (c) 50%, (d) 30%. My primary role was as collaborative biostatistician.

Submitted

1. Thein-Nissenbaum, J., Weiss, D., **Kliethermes, S.**, Scerpella T. "Adolescent bone advantages 3 years after resistance training program" *Journal of Pediatrics Exercise Science* Submitted November 2020 (Under revision). (a) 10%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician.
2. Turner EHG, Prince SR, Sanfilippo JL, **Kliethermes SA**, Monawer A, Scerpella TA. "Tibial Cross-Sectional Geometry Predicts Stress Fracture in Collegiate Female Runners" Submitted to *J Clin Endocrinol Metab* June 2, 2021. (a) 25%, (b) 0%, (c) 90%, (d) 30%. My primary role was as collaborative biostatistician.
3. Reihm, C; Bonnette, S; Rile, MA.; Diefuss, J.; DiCesare, C., Schille, A., **Kliethermes, SA.**, Keifer, A., Pombo, M., Jayanthi, NA., Myer, GD "Movement Regularity Differentiates Specialized and Non-Specialized Athletes in a Virtual Reality Soccer Header Task" *Journal of Sport Rehabilitation*. Submitted 12/2/2021. (a) 0%, (b) 0%, (c) 10%, (d) 30%. My primary role was as collaborative biostatistician.
4. Chen, KJ; Lee, E., **Kliethermes, S.**, Scerpella, TA. "Increased TT-TG and Tibial Slope are Independent Predictors of ACLR Failure" *Arthroscopy Journal*. Submitted 12/23/2021. (a) 25%, (b) 0%, (c) 100%, (d) 30%. My primary role was as collaborative biostatistician.

Non-Refereed Articles

1. Miller, E., **Kliethermes, S.**, Beutler, AI. "Can or Should Kids Go the Distance?: Benefits and Risks Associated with Youth Distance Running" *Endurance and Sports Medicine*. 2:2 Summer 2018. (a) 50%, (b) NA, (c) NA, (d) 40%. I contributed to intellectual framework and manuscript development.

Invited Editorials, Technical Reports, and Other Publications

1. **Kliethermes, S.**, Beutler, AI. "Clinical Research and The AMSSM Collaborative Research Network" *British J Sports Medicine* 2018 Nov 27. (a) 50%, (b) N/A (c) N/A, (d) 50%. I

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

- served as lead author and provided intellectual framework and manuscript development
- Jayanthi, N., **Kliethermes, SA.**, Cote, J. "Youth sport specialisation: the need for an evidence-based definition" *British J Sports Medicine* Dec 2019. (a) 35%, (b) N/A (c) N/A (d) 35%. I contributed to intellectual framework and manuscript development.

Conference Publications (Invited papers, conference proceedings, and scientific abstracts published in conference proceedings. Indicate contributions if co-authored.)

- Schwarz AM, Keene JA, Henderson K, **Kliethermes S**, DeBruin A, Weidman A, Stein E, Pfaller A, McGuine TA The Association of Sport Related Concussions and Symptoms of Depression in High school Athletes. *National Athletic Trainer's Association Meeting Houston, TX June 2017*. (a) 10%, (b) 0%, (c) 90% (d) 35%. My primary role was as a collaborative statistician.
- Dowthwaite, J., **Kliethermes, S.**, Scerpella, T. In US Females, Adult Proportions of Head to Whole Body Bone Mass Ratio Stabilize Early, Allowing Evaluation of Whole Body BMC from Age 12 years, or Menarche, Onward. *The American Society for Bone and Mineral Research September, 2017*. (a) 20%, (b) 0%, (c) 90% (d) 35%. My primary role was as a collaborative statistician.
- Kliethermes, S.**, Niewold, N., Snedden, T., McGuine, T., Health Related Quality of Life and Depression levels in adolescent males and females in the 6-months following a sports related concussion. *Pediatric Research in sports Medicine Society (PRISM) Annual Meeting, Plantation FL, January 2018*. (a) 10%, (b) 0%, (c) 90% (d) 35%. My primary role was as a collaborative statistician.
- Snedden, T, **Kliethermes S**, Niewold N, Schwarz, A, McGuine TA. Symptom Count and severity over time after sport-related concussion in adolescent male and female athletes. *Pediatric Research in sports Medicine Society (PRISM) Annual Meeting, Plantation FL, January 2018*. (a) 20%, (b) 0%, (c) 90% (d) 20%. My primary role was as a collaborative statistician.
- McGuine, TA, **Kliethermes SA**, Schwarz A, Gallanberger M, McDonald C, Pfaller A, DeBruin A, Snedden A. A Prospective Study on the incidence and onset of sport related concussions in female high school soccer players. *Pediatric Research in sports Medicine Society (PRISM) Annual Meeting, Plantation FL, January 2018*. (a) 20%, (b) 0%, (c) 90% (d) 35%. My primary role was as a collaborative statistician.
- Dowthwaite, J., **Kliethermes, S.**, Kanaley, J., Scerpella, TA. Organized Physical Activity Participation from Pre-puberty to Adulthood: A Longitudinal Study in U.S. Females. *American College of Sports Medicine National Meeting, Minneapolis, MN, June 2018*. (a) 20%, (b) 0%, (c) 90% (d) 35%. My primary role was as a collaborative statistician.
- Niewold, N., **Kliethermes, S.**, McGuine TA. Depression Severity in Adolescent Male and Female Athletes Following Sports-Related Concussion. *American College of Sports Medicine National Meeting, Minneapolis, MN, June 2018*. (a) 15%, (b) 0%, (c) 90% (d) 20%. My primary role was as a collaborative statistician.
- McGuine, TA., Schwarz A, Pfaller A, De Bruin A, Gallenberge M, McDonald C, **Kliethermes, S.**, Brooks MA A Prospective Study on the Incidence, Mechanisms and Risk Factors for Sport Related Concussions in High School Soccer Players. *National Athletic Trainer's Association Meeting New Orleans, LA June 2018* (a) 10%, (b) 0%, (c) 75% (d) 20%. My primary role was as a collaborative statistician.

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

9. McCollough, J., **Kliethermes S**, Sanfalipo, J. Higher Odds of Collegiate Lower Extremity Injury in Student Athletes with History of Lower Extremity Surgery Before Entering College Athletics. *National Athletic Trainer's Association Meeting New Orleans, LA June 2018*. (a) 25%, (b) 0%, (c) 95% (d) 30%. My primary role was as a collaborative statistician.
10. Roberts EJ, Soyk MG, **Kliethermes SA**, Schwarz AM, Niewold NK, Gallenberger MA, Pfaller AY, McGuine TA. The Impact of Sport-Related Concussions on the Health-Related Quality of Life in High School Athletes. *National Athletic Trainer's Association Meeting New Orleans, LA June 2018*. (a) 10%, (b) 0%, (c) 90% (d) 35%. My primary role was as a collaborative statistician.
11. Dowthwaite, J., **Kliethermes, S.**, Scerpella, TA. SITAR Models of Bone and Body Composition Growth: Prospective Longitudinal Data for U.S. White Girls from Childhood to Adulthood. *American Society of Bone and Mineral Research Annual Meeting Quebec, Canada September 2018*. (a) 20%, (b) 0%, (c) 100% (d) 30%. My primary role was as a collaborative statistician.
12. Bell DR, McGuine TA, Biese KM, Hernandez MI, Schaefer DA, **Kliethermes S**, Brooks MA, Watson A, Lang P. Injury History is Associated with Sport Specialization Level in High School Volleyball Athletes. *Great Lakes Athletic Training Association Annual Meeting Wheeling, IL March, 2019*. (a) 10%, (b) 0%, (c) 60% (d) 20%. My primary role was as a collaborative statistician.
13. Biese KM, McGuine TA, Hernandez MI, Schaefer DA, **Kliethermes S**, Brooks MA, Watson A, Lang P, Bell DR: Injury History is Associated with Sport Specialization Level in High School Volleyball Athletes. *National Athletic Trainer's Association Meeting Las Vegas, Nevada June 2019*. (a) 10%, (b) 0%, (c) 60% (d) 20%. My primary role was as a collaborative statistician.
14. Whiting P., Bernatz J., Brooks A., Graf R., Siy A., **Kliethermes S.**, Doro C., Goodspeed D., Lang G. Length of Stay Following Geriatric Hip Fracture Surgery: Do Physical Therapy Availability and Day of Surgery Matter? *OTA Annual Meeting 2019*. (a) 20%, (b) 0%, (c) 90% (d) 30%. My primary role was as a collaborative statistician.
15. Spiker A., Graf R., Duminie S., **Kliethermes S.**, Goodspeed D., "Differences in Radiographic Measurements on Standing versus Supine Pelvic Radiographs" *AANA Annual Meeting, Orlando, FL, May 2-4, 2019*. (a) 35%, (b) 0%, (c) 100% (d) 20%. My primary role was as a collaborative statistician.
16. Spiker A., Graf R., Duminie S., **Kliethermes S.**, Goodspeed D., "Differences in Radiographic Measurements on Standing versus Supine Pelvic Radiographs" *AOA Annual Meeting, San Diego, CA, June 25-28, 2019*. (a) 35%, (b) 0%, (c) 100% (d) 20%. My primary role was as a collaborative statistician.
17. Sanfilippo, J., Lund, B., **Kliethermes, SA.**, Moll, M., Heiderscheit, B., "Lower Extremity Injury Following a Hamstring Strain in Division 1 Collegiate Football Athletes" *National Athletic Trainer's Association Meeting Las Vegas, Nevada June 2019*. (a) 20%, (b) 0%, (c) 100% (d) 20%. My primary role was as a collaborative statistician.
18. Thien-Nissenbaum, J., **Kliethermes, S.**, Scerpella TA "Improvements in adolescent bone persist three years after resistance training intervention" *ASBMR Annual Meeting Orlando, Florida September 2019*. (a) 40%, (b) 0%, (c) 100% (d) 40%. My primary role was as a collaborative statistician.
19. Dowthwaite, J., **Kliethermes, S.**, Cole, T, Scerpella, TA "Longitudinal Development of Peak Bone Mass in White US Females: A View through 3 maturational lenses" *ASBMR Annual Meeting Orlando, Florida September 2019*. (a) 35%, (b) 0%, (c) 100% (d) 20%. My primary role was as a collaborative statistician.

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For All Faculty Members

List all activities in chronological order

20. Spiker A., Graf R., Duminie S., Watchmaker, LE., **Kliethermes S.**, Goodspeed, D. "Differences in radiographic measurements on standing versus supine pelvic radiographs" Glendale, AZ; Jan 23-25, 2020, Poster. (a) 35%, (b) 0%, (c) 100% (d) 20%. *My primary role was as a collaborative statistician.*
21. McGuine, T., **Kliethermes, S.**, Biese, K., Bell, D., Watson, A., Brooks, MA., Post, E., Lang, P. "A prospective study of time loss and non-time loss injuries sustained by female high school volleyball players" Glendale, AZ; Jan 23-25, 2020, Poster. (a) 40%, (b) 0%, (c) 100% (d) 40%. *My primary role was as a collaborative statistician.*
22. Lang, P., McGuine T., Mack L., Biese, K., Bell, D., Watson, A., Brooks, MA., Post, E., **Kliethermes, S.** "Prevalence of over the counter pain medication use among high school volleyball players" Glendale, AZ; Jan 23-25, 2020, Poster. (a) 40%, (b) 0%, (c) 100% (d) 40%. *My primary role was as a collaborative statistician.*
23. Biese, K., McGuine, T., **Kliethermes, S.**, Bell, D., Watson A., Brooks, MA., Post, E., Lang, P. "Association between injury and sports specialization among female high school volleyball players" Glendale, AZ; Jan 23-25, 2020, Poster. (a) 40%, (b) 0%, (c) 70% (d) 20%. *My primary role was as a collaborative statistician.*
24. **Kliethermes, S.**, McGuine, T., Biese, K., Bell, D., Watson, A., Brooks, MA., Post, E., Lang, P., "Ankle brace use and risk of acute lower extremity injury among female high school volleyball players" Glendale, AZ; Jan 23-25, 2020, Podium Presentation. (a) 75%, (b) 0%, (c) 100% (d) 70%. *My primary role was as a collaborative statistician.*
25. Hernandez MI, Biese KM, McGuine TA, Schaefer DA, Brooks MA, Watson AM, Lang PJ, **Kliethermes SA**, Bell DR. The association between high school cutting policy and school size with sport specialization status and multisport participation. Presented at *National Athletic Trainers' Annual Clinical Symposia and Training Exposition*, Atlanta, GA (June 2020). (a) 40%, (b) 0%, (c) 100% (d) 30%. *My primary role was as a collaborative statistician.*
26. Spiker A., Graf R., Duminie S., Watchmaker, LE., **Kliethermes S.**, Goodspeed, D. Differences in Radiographic Measurements on Standing versus Supine Pelvic Radiographs. ISHA Annual Meeting, Madrid, Spain, Oct 17-19, 2019. (a) 35%, (b) 0%, (c) 100% (d) 20%. *My primary role was as a collaborative statistician.*
27. Knurr, K, **Kliethermes SA**, Thomas, G., Binkley, N., Baer, G., Heiderscheit, B.. "Distal Femur Bone Mineral Density Deficits Persist 2 Years after ACL Reconstruction in Collegiate Athletes." Platform Presentation, APTA Combined Sections Meeting, Denver, CO (February 2020). (a) 40%, (b) 0%, (c) 80% (d) 20%. *My primary role was as a collaborative statistician.*
28. Stiffler-Joachim MR, Wille CM, **Kliethermes S**, Heiderscheit BC. Returning in-season after acute hamstring strain injury is associated with greater re-injury despite normal clinical assessment. *APTA Combined Sections Meeting*. February 2020, Denver, CO. (a) 35%, (b) 0%, (c) 70% (d) 20%. *My primary role was as a collaborative statistician.*
29. Paul Whiting, James Bernatz, Andrew Brooks, Ryan Graf, **Stephanie Kliethermes**, Alexander Siy, Natasha Simske Christopher Doro, David Goodspeed, Gerald Lang; Length of Stay Following Geriatric Hip Fracture Surgery: Do Physical Therapy Availability and Day of Surgery Matter?" AAOS March 26 2021, Poster. (a) 20%, (b) 0%, (c) 100% (d) 20%. *My primary role was as a collaborative statistician.*
30. Spiker A., Graf R., Duminie S., Watchmaker, LE., **Kliethermes S.**, Goodspeed, D. Differences in Radiographic Measurements on Standing versus Supine Pelvic Radiographs. AAOS Annual Meeting, Orlando, FL, March 24-28, 2020. Poster. (a) 35%, (b) 0%, (c) 100% (d) 20%. *My primary role was as a collaborative statistician.*
31. Knurr, K., **Kliethermes S.**, Stiffler-Joachim, M., Cobian D., Baer, G., Heiderscheit, B. "Pre-

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List all activities in chronological order

- Injury Running Biomechanics Are Not Restored 12-Months Post Anterior Cruciate Ligament Reconstruction in Collegiate Athletes.” Platform Presentation, APTA Combined Sections Meeting, (February 2021). (a) 30%, (b) 0%, (c) 90% (d) 20%. My primary role was as a collaborative statistician.
32. Graf R., Duminie, S., Watchmaker LE., **Kliethermes SA.**, Goodspeed, DC., Spiker, AM. Differences In Radiographic Measurements on Standing versus Supine Pelvic Radiographs. MAOA Annual Meeting, Ameila Island, FL, September 29-October 3, 2021. (Podium presentation). (a) 20%, (b) 0%, (c) 100% (d) 20%. My primary role was as a collaborative statistician.
33. McGuine, T., Biese, K., Hetzel, S., **Kliethermes, S.**, Reardon, C., Bell, D., Brooks, MA., Watson, A. “The impact of Covid-19 related school closures and sport cancellations on the health of adolescent athletes.” Pediatric Research in Sports Medicine (PRiSM) Annual Meeting; Jan 29, 2021; Virtual Presentation. (a) 20%, (b) 0%, (c) 20% (d) 20%. My primary role was as a collaborative statistician.
34. Lang, P., McGuine, T., Mack, L., Biese, K., Bell, D., Waston, A., Brooks, MA., Post, E., **Kliethermes, S.**, “Prevalence of Over the Counter Pain Medication Use Among High School Volleyball Players” PRiSM: Virtual; Jan 28-30, 2021; Virtual Poster. (a) 40%, (b) 0%, (c) 100% (d) 30%. My primary role was as a collaborative statistician.
35. Lukes DH, Stiffler-Joachim MR, **Kliethermes, SA**, Heiderscheit BC. Biomechanical Asymmetries during Running and Sidedness of Subsequent Bone Stress Injury. APTA Combined Sections Meeting. February 2021, Orlando, FL. (a) 20%, (b) 0%, (c) 50% (d) 20%. My primary role was as a collaborative statistician.
36. Rowland ON, Stiffler-Joachim MR, Wille CM, **Kliethermes SA**, Chumanov ES, Heiderscheit BC. Injury Location and Prevalence Among Injured Recreational Runners based on Age and Foot Strike Pattern. APTA Combined Sections Meeting. February 2021, Orlando, FL. (a) 30%, (b) 0%, (c) 80% (d) 20%. My primary role was as a collaborative statistician.
37. Schmida, EA., Wille CM, Stiffler-Joachim MR., **Kliethermes, SA.**, Heiderscheit BC. “Loading Rate is not Associated with Running Injury Regardless of Calculation Method” ACSM Annual Meeting, (Virtual)2021. (a) 30%, (b) 0%, (c) 50% (d) 20%. My primary role was as a collaborative statistician.
38. Graf, RM., Shaw, JT., Simske, NM., Siy, PN., Siy, AB., **Kliethermes, SA.**, Whiting, PS. Risk Factors for Nonunion Following Locked Plating of Distal Femur Fractures OTA Annual Meeting, October 20-23, 2021, Fort Worth Texas; Poster. (a) 35%, (b) 0%, (c) 100% (d) 20%. My primary role was as a collaborative statistician.
39. Crawford, SK., **Kliethermes, SA.**, Bashford, G., Heiderscheit BC. “Influence of Ultrasound Machine Settings on Spatial Frequency Parameters in Skeletal Muscle”. BMES 2021 Annual Meeting. October 2021, Orlando, Florida. (Oral Presentation) (a) 40%, (b) 0%, (c) 90% (d) 30%. My primary role was as a collaborative statistician.
40. Dowthwaite, J., **Kliethermes, S.**, Cole, T, Scerpella, TA “Biological and Chronological Age-Based Longitudinal Assessments of Peak Bone Mineral Density in Female Athletes and Non-athletes: Does BMD Decrease Before Perimenopause?” ASBMR 2021 Annual Meeting, October 1-4, 2021, San Diego, California, USA (Oral Presentation). (a) 30%, (b) 0%, (c) 100% (d) 30%. My primary role was as a collaborative statistician.
41. Cobian, DG., Knurr, KA., Smith, AW., Joachim, MR., **Kliethermes, SA.**, Heiderscheit, BC. “knee Extensor Rate of Torque Development Assessment Post-ACL Reconstruction: Does Sampling Rate Matter?” ACSM 2022 Annual Meeting, May 31-June 4, 2022, San Diego, California, USA. (Submitted)
42. Stiffler-Joachim, MR., Heiderscheit, BC., **Kliethermes, SA.** “Sport Specialization is Not Associated with Relative Energy Deficiency Risk Factors in High School Runners”. ACSM 2022 Annual Meeting,

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List all activities in chronological order

May 31-June 4, 2022, San Diego, California, USA.

43. Chen, K., Lee, E. **Kliethermes, SA.**, Scerpella, TA. "Increased TT-TG and Tibial Slope are Independent Predictors of ACLR Failure". AOSSM 2022 Annual meeting, July 13 - 17, 2022, in Colorado Springs (poster presentation).
44. Biese KM, Hernandez HI, Winans M, Rudek G, McGuine TA, **Kliethermes SA**, Cadmus-Bertram L, Andreae SJ, Brooks MA, Bell DR, "Secondary School Athletic Trainers' Strategies and Barriers to Treating Overuse Injuries in Adolescent Athletes" NATA 2022 Annual Meeting, June 28-July 1, 2022, Philadelphia, Pennsylvania, USA. (Submitted)

Invited Research Presentations (*"podium talks" at scientific conferences or academic institutions should be provided. Only invited and/or competitive oral presentations delivered by the candidate should be included.*)

Local/UW

1. Biostatistics in Sports Medicine. Summer Institute for Biostatistics; University of Iowa, Iowa City, IA; 6/2021 (Virtual)
2. Demystifying Mixed Effects Models for Sports Medicine Research. Badger Athletic Performance Seminar, University of Wisconsin-Madison, Madison, WI; 1/12/2021
3. Best Practices for Handling Missing Data in Clinical Research. Badger Athletic Performance Seminar, University of Wisconsin-Madison, Madison, WI; 5/11/2020
4. Understanding the Impact of Youth Early Sport Specialization – Issues in Study Design and Selecting Appropriate Outcome Measures. Departmental Seminar Series; Department of Biostatistics, University of Iowa, Iowa City, IA; 1/19
5. The AMSSM Collaborative Research Network. Badger Athletic Performance Seminar, University of Wisconsin-Madison, Madison, WI; 5/14/19.
6. Biostatistics in Sports Medicine. Summer Institute for Biostatistics; University of Iowa, Iowa City, IA; 6/18
7. The Use and Misuse of Matching in Study Design and Analysis. Badger Athletic Performance Seminar, University of Wisconsin-Madison, Madison, WI; 3/13/18.
8. The True Value of a p-value. Badger Athletic Performance Seminar, University of Wisconsin-Madison, Madison, WI; 9/17
9. Potential Pathways in Biostatistics. Summer Institute for Biostatistics; University of Iowa, Iowa City, IA; 6/17
10. A Roadmap to Clinical Research; Loyola University Fellows Lecture Series. Loyola University Medical Center 10/13
11. Hypothesis Testing; Loyola University Research Honors Seminar; Loyola University Medical Center, Maywood, IL; 9/13

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12. Study Design and Analysis in Clinical Research. Midwestern University Seminar; Downers Grove, IL; 1/12
13. Who has heard of Biostatistics... anyone? Open Doors, Open Minds Conference; Cedar Rapids, IA 10/10; 10/11
14. Heads, Footprints, and Statistics? Oh My! Open Doors, Open Minds Conference; Cedar Rapids Iowa, 10/09

Regional

1. The Risks and Effects of Youth Single-Sport Specialization: An Expert Panel Discussion for Coaches, Athletic Directors and Parents. Orthopaedic Rehab Specialists; Webinar. 6/15/2020

National

1. Introduction to the Delphi Method. AMSSM Fellows Research & Leadership Conference; Denver, CO; 7/24/2021
2. Beyond the Numbers: Biostatistics for Sports Medicine. AMSSM Fellows Research & Leadership Conference; Denver, CO; 7/24/2021
3. The impact of Covid-19 related school closures and sport cancellations on the health of adolescent athletes. Pediatric Research in Sports Medicine(PRiSM) Annual Meeting; Virtual; 1/29/2021
4. Beyond the Numbers: Biostatistics for Sports Medicine. AMSSM Fellows Research & Leadership Virtual Conference; 7/2020
5. AMSSM Collaborative Research Network. AMSSM Fellows Research & Leadership Virtual Conference; 7/2020
6. Evidence Based Medicine. AMSSM Fellows Research & Leadership Virtual Conference 7/2020
7. Coach Education & Development Post COVID-19: A Medical Perspective. USCCE Virtual Summit 6/2/2020
8. Impact of Youth Sport Specialization on Athlete Performance. AMSSM Webinar. 1/27/20.
9. Ankle brace use and risk of acute lower extremity injury among female high school volleyball players. Pediatric Research in Sports Medicine (PRiSM) Annual Meeting; Glendale, AZ; 1/24/20.
10. Getting Started in Sports Medicine Research for Early Career Physician-Scientists.

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AMSSM Webinar. 9/23/19

11. AMSSM Collaborative Research Network. AMSSM Annual Meeting Mainstage Lecture; Houston, TX; 4/13/2019.
12. Impact of Youth Sport Specialization on Athlete Performance. Youth Early Sport Specialization Summit; Houston, Texas; 04/12/2019.
13. Predicting Road Race Injury at the Point of Registration. IIRM Sports Medicine Conference Series; Washington, D.C; 10/26/2018.
14. Beyond the Numbers: Biostatistics for Sports Medicine. AMSSM Fellows Research & Leadership Conference; Philadelphia, PA; 7/18
15. AMSSM Collaborative Research Network. AMSSM Fellows Research & Leadership Conference; Philadelphia, PA; 7/18
16. AMSSM Collaborative Research Network: High Priority Initiatives. AMSSM Annual Meeting Mainstage Lecture; Orlando, FL; 4/18
17. Health Related Quality of Life and Depression in Adolescents following a Sports Related Concussion: A 6-month follow-up; Pediatric Research in Sports Medicine (PRISM) Annual Meeting; Fort Lauderdale, FL; 1/18
18. A prospective study on the incidence and onset of sport related concussions in female high school soccer players; Pediatric Research in Sports Medicine (PRISM) Annual Meeting; Fort Lauderdale, FL; 1/18
19. Biostatistics in Sports Medicine: What you really need to know. AMSSM Fellows Research & Leadership Conference; Boulder, CO; 7/17
20. How not to displease a statistical reviewer. AMSSM Annual Meeting Instructional Course Lecture. San Diego, CA; 5/17
21. The AMSSM Collaborative Research Network. AMSSM Annual Meeting Mainstage Lecture; San Diego, CA; 5/17
22. Functional Mixed Effects Models for Multiple Outcomes. Spring Meeting of the International Biometrics Society (ENAR). Washington D.C.; 4/12
23. Bayesian Functional Mixed Effect Modeling for Longitudinal Growth Curves with Binomial Outcomes. Joint Statistical Meetings; San Diego, CA; 8/12
24. Claims-based Resource Utilization in Physical Therapy Care; A Comparison of Physician-Referred and Direct Access; Direct Access and Advanced Scope of Practice in Physical Therapy International Summit; National Harbor, MD; 10/09

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International

1. Cohort study planning, conducting and data sharing for future IPD meta-analyses – is it possible?; Young Athlete’s Hip Research Collaboration: Oxford, UK (Virtual Webinar); 9/23/2021.

Research Support (Include grant title, source, monetary amount, date(s) of award, name of PI, role of faculty member if not PI, and percentage of effort. Include clinical trials, contracts, training grants and other research support.)

Current

Title: Hamstring Injury (HAMIR) Index: A Framework for Injury Mitigation through Innovative Imaging, Biomechanics and Data Analytics Approaches

Source: National Football League Player Health and Safety

PI: Heiderscheit/Opar/Blemker

Years: 7/01/2021-06/30/2025

Role: Co-Investigator

Effort: 5%-10%

Amount: \$3,999,974 total

The proposed project will develop innovative magnetic resonance imaging (MRI) techniques and wearable sensor technologies to better predict athletes at risk for hamstring strain injury recurrence and validate the technologies using a prospective, longitudinal, multisite investigation among elite football athletes.

Title: Evaluating the Impact of Training Volume, Sleep, and Well-Being on Injury Risk in Adolescent Cross Country Runners

Source: Virginia Horne Henry Fund for Women’s Physical Education Issues

PI: Kliethermes

Years: 5/1/2021-8/31/2023

Amount: \$32,283

The primary goals of this project are to assess the impact of changes in training volume, average sleep and athlete well-being (e.g. stress and psychosocial well-being) on injury risk in a population of high school cross-country runners.

Title: Evaluating the Impact of Training Volume, Sleep, and Well-Being on Injury Risk in Youth Runners

Source: UW-Madison Department of Orthopedics & Rehabilitation Freedom of Movement Fund

PI: Kliethermes

Role: Principal Investigator

Years: 6/1/2021-5/31/2022

Amount: \$49,910

Effort: 5%

The primary goals of this project are to assess the impact of changes in training volume, average sleep and athlete well-being (e.g. stress and psychosocial well-being) on injury

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risk in a population of high school cross-country runners.

Title: Prospective Evaluation of Running-Related Injury Disability in High School Cross Country Runners

Source: American Academy of Sports Physical Therapy Legacy Fund

Amount: \$10,000

Years: 01/01/2021-12/31/2021

P.I. Nelson

Role: Co-Investigator

Effort: 5%

Prospective Evaluation of Running-Related Injury Disability in High School Cross Country Runners This project will evaluate the validity and responsiveness of the University of Wisconsin Recovery Index (UWRI) in high school cross country runners in the state of Wisconsin.

Title: Using Machine Learning to Predict Bone Stress Injury Risk in Women

Source: Virginia Horne Henry Fund for Women's Physical Education and Movement

Amount:

Years: 5/1/2020-4/30/2022

P.I.: Heiderscheit

Amount: \$34,680

Role: Co-Investigator

Effort: 1%

The goals of this project are to use machine learning to divide runners into similar groups based on BSI risk factors and to predict BSI in collegiate cross-country runners based on various risk factors.

Title: Gut microbiota, short chain fatty acids, and adiposity across the epidemiologic transition

Source: NIH R01

Amount: \$3,428,596

Year(s): 4/01/17-03/31/22

PI: Dugas

Role: Co-Investigator

Effort: 5% (years 3-5)

Gut microbiota, short chain fatty acids, and adiposity across the epidemiologic transition. The objective of this grant is to define associations between gut microbiota, short chain fatty acids, and obesity in populations spanning the epidemiologic transition, and explore mechanisms by which these factors may independently and collectively influence the development of obesity.

Major Past Awards

Title: Clinical, Biomechanical and Novel Imaging Biomarkers of Hamstring Strain Injury Potential in Elite Athletes

Source: NBA/GE Collaboration

Amount: \$299,886

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Year(s): 03/15/17-03/14/20

PI: Heiderscheit

Role: Co-Investigator

Effort: 2%

The goals of this project are to identify risk factors for hamstring injury, evaluate novel imaging methods that could improve post-injury prognosis, and determine if more detailed assessments of movement mechanics and sports performance provide important information that helps us to better understand the causes and effects of hamstring strain injuries.

Title: Research Summit on Youth Sports Specialization and Athlete Health and Development

Source: NIH NIAMS R13 Conference Grant

Amount: \$15,000

Year(s): 12/01/2018-11/30/2019

Role: PI

Effort: 0%

This NIH conference grant will support the main objectives of the proposed conference: 1) conduct and present a rigorous review of the current scientific knowledge and 2) develop a "research roadmap" to drive future research efforts based on existing evidence in the field of youth athlete training and development

Title: Identifying Risk Factors for Injuries in Female High School Volleyball Players

Source: National Federation of State High School Associations; UW Department of Orthopedics & Rehabilitation

Year(s): 9/30/2018-9/29/2019

Amount: \$79,466

PI: McGuine

Role: Co-Investigator

Effort: 2.5%

Objectives: 1) Identify primary risk factors for injury that predispose female volleyball players to SRI such as their level of sport specialization (low, medium or high) and total volume of volleyball participation within the past year, and 2) Identify secondary (contributing) risk factors such as BMI and previous history of injury that will contribute to SRI susceptibility.

Title: Driving after Concussion: Association between Concussion Symptoms Severity, Neurocognitive Tests, and a Computer-based Risk Awareness Program

Source: AMSSM Foundation

Amount: \$4111

Year(s): 1/5/2017-1/5/2018

PI: Hammer

Role: Co-Investigator

Effort: 1%

The goal of this study is to assess the correlation between the subacute effect of concussion on drivers' hazard perception

Title: The Impact of Sport Specialization on Injury and Illness in Youth Athletes

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Source: AMSSM Foundation
Amount: \$20,761
Year(s): 2/15/2017-2/15/2018
PI: Watson
Role: Co-Investigator
Effort: 2%

The goal of this study is to determine if sport specialization is an independent risk factor for injury and illness among middle school children while controlling for the effects of previous injury history, volume of sport participation, age, gender, and sleep.

Title: Transcutaneous oxygen as a predictor of wound healing complications in preoperatively radiated soft tissue sarcoma
Source: Orthopaedic Research and Education Foundation (OREF)
Amount: \$50,000
Year(s): 7/1/2015-6/30/2016
PI: Nystrom
Role: Co-Investigator
Effort: no salary support - changed institutions and declined to stay on grant

The aim of this study is to evaluate the relationship between preoperative skin oxygenation and wound outcomes. Specifically, we will Correlate the level of transcutaneous oxygen measurement immediately prior to surgery with surgical outcomes and compare wound healing outcomes between those treated with and without a vacuum assisted closure device.

Title: Host Response to pessaries in microbial communities of the postmenopausal vagina
Source: NIH
Year(s): 8/1/2016-4/30/2018
PI: Brincat
Role: Co-Investigator
Effort: changed institutions and declined to stay on grant

This grant aims to identify barriers to effective non-surgical management of pelvic floor disorders in the elderly. Specifically we aim to determine the predominant vaginal microorganisms and vaginal AMP profile of older women with and without a pessary. We will also assess longitudinal changes in the vaginal microbiome and AMP profile between women who choose to continue pessary use and those who do not.

Title: The Female Urinary Microbiome and Urinary Incontinence
Source: NIH – 5R01DK104718-02
Year(s): 4/1/2016-3/31/2021
PI: Wolfe and Brincat
Role: Co-Investigator
Effort: no salary support - changed institutions and declined to stay on grant

This grant will determine whether key characteristics of the newly discovered female urinary microbiome, the bacterial community living in the bladder of many adult women, associate strongly with two common forms of urinary incontinence (stress urinary incontinence [SUI] and urgency urinary incontinence [UUI]).

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Title: The Female Urinary Microbiome: Adjacent Microbiomes and Clinical Associations

Source: NIH – P20: 5P20DK108268-02

Year(s): 9/15/2015-8/01/2017

PI: Wolfe

Role: Co-Investigator

Effort: 5% ; funded for 1 year on grant but then changed institutions and declined to stay on grant

The major scientific focus of this P20 application is the relationship of the FUM to the adjacent vaginal and perineal microbiomes, associations of these pelvic floor microbiomes with urinary symptoms and clinical outcomes, and initiation of a urologic microbiome database designed to benefit the entire urologic research community. The educational focus is to cross-train undergraduates, medical and graduate students, clinicians, basic scientists, bioinformaticians and biostatisticians in the emerging field of urinary microbiomics.

Title: Predicting Infection-related Mortality in Cirrhosis Using Blood and Ascitic Fluid Biologic and Clinical Markers

Source: Loyola University Research Funding Committee Grant

Year(s): June 2015-May 2016

PI: Megan Fitzpatrick

Role: Co-I/Biostatistician

The overall goal of this prospective, longitudinal study was to identify surrogate markers of gut bacterial translocation (BT), better understand the immune changes prompted by gut BT and correlate both to clinical outcomes. This study assessed chronic exposure to bacteria and/or bacterial products via heightened gut BT and the corresponding immune response in outpatient cirrhotics.

Title: Diastolic Dysfunction of South Asians

Source: Loyola University Research Funding Committee Grant

Year(s): June 2015-May 2016

Amount: \$30,000

PI: Sadayappan, Sakthivel

Role: Co-I/Biostatistician

Effort: 2.5%

This study aimed to determine the prevalence of a specific gene defect in one of the heart's functioning genes, MYBPC3. This gene has been found to be more prevalent among south Asians alongside a higher incidence of heart disease.

Title: Alcohol Exposure and Acute Respiratory Distress Syndrome in Burn Patients

Source: Loyola University Research Funding Committee Grant

Years: January 2015 – December 2015

Amount: \$35,790

PI: Afshar, Majid

Role: Co-I/Biostatistician

Effort: 5%

The goal of this project was to identify the association of acute alcohol exposure with acute respiratory distress syndrome (ARDS) development in burn patients and identify the phenotype of burn-ARDS with previously validated key biomarkers from ARDS

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Network studies

Title: The Longitudinal Assessment of Metabolic Syndrome in Liver Transplant Recipients and the Investigation of Sarcopenia as a Novel Risk Factor

Source: Loyola University Research Funding Committee Grant

Years: October 2014- September 2015

PI: Eric Kallwitz, MD

Role: Co-I/Biostatistician

This study aimed to detect whether sarcopenia was an independent risk factor for the development of post liver transplant metabolic syndrome. It followed a cohort of individuals post-liver transplant to define the temporal development of the metabolic syndrome.

Title: The Inter-relationship of Non-Alcoholic Fatty Liver Disease and Atherosclerosis in the Pediatric Obese Population

Source: Loyola University Research Funding Committee Grant

Year(s): February 2014-January 2015

PI: Marsha Ma, MD

Role: Co-I/Biostatistician

The aim of this grant was to study pediatric obese patients to determine the early impact of obesity, without concomitant high blood pressure or diabetes, on carotid intima-media thickness (cIMT) and whether NAFLD is an early predictor of premature cardiovascular events. The study additionally assessed the influence of gender, race, and ethnicity on this relationship.

Educational Activities & Presentations (Describe audience whenever possible, e.g., faculty, undergraduates, medical students, residents/fellows, public. Include information noted in the teaching tables. Add an annotation to note new and innovative teaching methods and their data effectiveness.)

Classroom Teaching (graduate & undergraduate)						
Years	Course Title	Credits	Students	Grade Distribution	Contact Hours	Format
2021	Linear Mixed Effects Models		1	A	1h/wk x 8 wks	Independent Study
2021	Methods in Survival Analysis		1	A	1h/wk x 8 wks	Independent Study
2020	Linear Mixed Effects Models		1	A	1h/wk x 8 wks	Independent Study
2016	Biostatistical Computing	3 s.h.	20	Not retrievable	3h/wk x 15 wks	Lecture/lab
2015	Bayesian Data Analysis	2 s.h.	4	Not retrievable	2h/wk x 8 wks	Tutorial/Independent Study

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2010-2012	<i>Design and Analysis of Biomedical Studies</i>	3 s.h	20	Not retrievable	7h/wk x 6 weeks (summer)	Lecture
2011	<i>Research Data Management</i>	3 s.h.	18	Not retrievable	3h/wk x15 weeks	Lecture/Lab
2011	<i>Applied Longitudinal Data Analysis</i>	3 s.h.	20	Not retrievable	3h/wk x15 weeks	Lecture/Lab
2010	<i>Introduction to Statistics</i>	3 s.h.	100 (20 lab)	Not retrievable	3h/wk x15 weeks	Lecture/Lab
2010	<i>Biostatistics Methods I</i>	4 s.h	20	Not retrievable	4h/wk x 15 weeks	Lecture/Lab
2007-2008	<i>Introduction to Biostatistics</i>	3 s.h	100	Not retrievable	3h/wk x15 weeks	Lecture/Lab

Medical School Teaching

Years	Course Title	Credits	Students	Grade Distribution	Contact Hours	Format
2014,2015, 2016	<i>Critical Analytic Skills</i>	N/A	150	N/A	3 x 90 min/yr	Lecture Series

Clinical Teaching (postgraduate trainees/clinical trainees, including fellows and residents)

Years	Trainee Name	Face-to-Face Contact Hours	Teaching Context*
2018, 2019, 2021	<i>Department of Rehabilitation Residents & Fellows</i>	3 hrs per year	<i>Evidence Based Practice Lecture Series</i>

*e.g., clinic, operating room, procedures suite, simulation center

Local Continuing Medical Education Courses

Years	Course Title	Students	Hours	Sponsor - Venue
2020	<i>Playing in Others' Backyards: Updates on current sports medicine projects from a biostatistician's desk</i>		1 hour	<i>Department of Orthopedics and Rehabilitation Grand Rounds</i>

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Graduate Student Mentees			
Years	Mentee Name	Degree Program	Current Position
2014-2015	Megan McCullough	PhD	Regional Vice President of Operations, HealthPro Heritage
2015-2017	William Adams	PhD	Assistant Professor, Loyola University Chicago
2019	Evan Nelson	PhD	Assistant Professor, UW-Madison
2019-	Mikel Joachim	MPH	In Progress
2019-	Jennifer Sanfillipo	ATC	In Progress
2020-	Keith Knurr	DPT, SCS	In Progress
2021-	Kevin Biese	MS	In Progress

Capstone/Practicum				
Years	Project Title	Student Name	Degree Program	Sponsor - Venue
2015	Hepatitis C Virus Infection in Ghana	Jason Gatenberg	MPH	Loyola University
2015-2016	Internship with Clinical Research Office – Biostatistics Core	Kyle Carey	MPH	Loyola University
Summer 2018	Summer Research Internship	Linder Wendt	B.S.	Lawrence University
Summer 2019	Capturing Medical Events at Endurance Races	Lianna Mack	M.D.	University of Wisconsin-Madison, SPH – Shapiro Student
Summer 2020	Developing a consensus definition	Cole McDonald	M.D.	University of Wisconsin-Madison, SPH – Shapiro Student

Other Educational Activities

Service Activities (*Examples: administrative activities, program development, committee assignments, journal or grant reviewer, etc.*)

Local Administrative service (*committee member or leadership position, conference organizer, etc.*)

Departmental

UW SMPH, Department of Orthopedics and Rehabilitation
2016-2018 UW Orthopedic Freedom of Movement Fund Scientific Advisory

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

Committee

UW SMPH, Department of Orthopedics and Rehabilitation, Division of Sports
Medicine
2016-2019 Research Committee

UW-Madison

University of Wisconsin Division of Intercollegiate Athletics
2016-present Badger Athletic Performance

Professional Service (*Service to societies, government organizations, review panels, study sections, committees, and other public service groups Appointments or election to editorial boards of scientific journals and to office in national and international scientific and educational societies, etc. Create subgroupings if desired. Add subheadings if needed for clarity.*)

Local

Regional/State

National

2021	Abstract reviewer, for Pediatric Research in Sports Medicine Annual Meeting 2022
2021	member, scientific review committee for AMSSM Collaborative Research Network 2021 Bridge to R34 RFP
2021-present	Associate Editor, British Journal of Sports Medicine (BJSM)
2021-present	National Council for Youth Sports (NCYS) Advisory Council
2020	Reviewer, British Journal of Sports Medicine
2020-present	Associate Editor, Journal of Orthopaedics and Sports Physical Therapy (JOSPT)
2020	member, scientific review committee for AMSSM Collaborative Research Network 2020 RFP
2020	COVID-19 Collaboration for Youth Sport– AMSSM, AAP, NATA
2020-present	Steering Committee, Cardiac Findings in Collegiate Athletes with COVID-19 National Registry
2019	AMSSM Representative, National Center for Catastrophic Sport Injury Research Leadership Meeting, Charlotte, NC
2019-present	Member, AMSSM Youth Sport Advocacy Team
2019	Reviewer, American Journal of Health Promotion
2019	member, scientific review committee for AMSSM Collaborative Research Network “Avanos Cooled Radiofrequency Ablation” RFP
2019	member, scientific review committee for AMSSM Collaborative Research Network “Bridge to R34”
2019	Reviewer, Sports Health Journal

SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

- 2019-present Board Member, Datalys Center for Sports Injury Research and Prevention; AMSSM representative
- 2019 AMSSM Representative, US Center for Coaching Excellence Summit; Colorado Springs, CO
- 2019 AMSSM Representative, National Federation for High Schools Injury Epidemiology Summit, Indianapolis, IN
- 2018-2019 Member, Data Safety Monitoring Board (DSMB), ASTRO-APS; PI: Scott Woller, MD Title: Apixaban for the Secondary prevention of Thromboembolism: a prospective Randomized Outcome pilot study among patients with the Antiphospholipid Syndrome [Study closed early]
- 2018 Co-Chair, Shark Tank Research Grant Award Scientific Review Committee, American Medical Society for Sports Medicine
- 2016-present Member, Abstract and Young Investigator Grant Reviewer, Research Committee, American Medical Society for Sports Medicine
- 2017-2019 Member, Planning and Writing Committee, Research Summit on Youth Sports Specialization and Athlete Performance, American Medical Society for Sports Medicine
- 2017 Reviewer, AMSSM Collaborative Research Network Research Award
- 2016-present Member, Leadership Team, Collaborative Research Network, American Medical Society for Sports Medicine
- 2018 AMSSM Representative, Physician Roundtable – Patient Centered Outcomes Research Institute
- 2016 AMSSM Representative, NIH Pediatric Concussion Workshop
- 2017-2020 Associate Editor, BMC Public Health
- 2017-present Statistical Advisor, Journal of Sports Physical Therapy (JOSPT)
- 2013-2018 Chairperson, Data Safety Monitoring Board (DSMB), National Institute of Nursing Research; PI: Penckofer; Title: Can the Sunshine Vitamin Improve Mood and Self-Management in Women with Diabetes?
- 2015-2018 Member, Data Safety Monitoring Board (DSMB), National Institute of Health; PI: Prendergast. Title: A Hypertension Emergency Department Intervention Aimed at Decreasing Disparities

Community Outreach/Service *(Include public facing presentations and media appearances, etc.)*

- 2021-present Member, Lawrence University Anti-Racism Task Force, LUAA
- 2020-present Member, Lawrence University Athletic Hall of Fame Selection Committee
- 2019-present Member, Lawrence University Viking Bench Golf Outing Committee
- 2017-2021 Board of Directors, Lawrence University Alumni Association, Appleton, WI
- 2017 Volunteer, USATF Para Youth Championships
- 2016-2017 Chair, Lawrence University 10-year Reunion, Appleton, WI
- 2016-present Volunteer Coach, Girls on the Run, Madison WI
- 2016-2017 Member, College of Public Health Alumni Advisory Council, Iowa City, IA
- 2016 Medical Trip, Arcahaie, Haiti, Community Health Initiative
- 2014-2016 Oak Park Runner's Club Race Committee, Oak Park, IL
- 2015-2017 Board of Directors, University of Iowa Alumni Association, Iowa City, IA
- 2015-2016 Volunteer Youth Basketball Coach, Oak Park Park District, Oak Park, IL
- 2014-present Lawrence University Alumni Ambassador, Appleton, WI



SMPH Curriculum Vitae Template

For All Faculty Members

List all activities in chronological order

2014	Volunteer Track Coach, Queen of Peace High School, Burbank IL
2014	Strategic Planning Committee for CPH Alumni Relations, Iowa City, IA
2010-2013	Board of Directors, Girls on the Run of Eastern Iowa, Iowa City, IA
2010-2011	Co-Chair, Lawrence University 5-year Reunion, Appleton, WI
2008-2009	Vice President, Biostatistics Student Organization, Iowa City, IA
2012-2013	Vice President, Biostatistics Student Organization, Iowa City, IA
2008-2013	Volunteer Coach, Girls on the Run of Eastern Iowa, Iowa City, IA
2007-2011	Big Sister, Big Brothers Big Sisters, Iowa City, IA
2008-2012	Volunteer Youth Basketball Coach, Iowa City Park District, Iowa City, IA
2006-2007	Vice President, Lawrence University Student Body, Appleton, WI

Consulting

2010-2012	Statistical Consultant for College of Nursing, University of Iowa, Iowa City, IA
2009-2013	Statistical Consultation for College of Pharmacy, Northwestern University, Downers Grove, IL