

Karen E. Nielsen
Assistant Professor
Department of Population Health Sciences
School of Public Health
Georgia State University
knielsen4@gsu.edu

Education

Ph.D. in Statistics, University of Michigan	2017
Dissertation title: "Selecting and Evaluating Models to Reflect Underlying Scientific Principles: Using Basis Sets to Parameterize Hypotheses"	
Master of Arts in Statistics, University of Michigan	2014
Bachelor of Arts in Mathematics and Psychology, University of Oklahoma	2011

Research Positions and Affiliations

Assistant Professor - Georgia State University	2019 - Present
Adjunct Research Assistant Professor / Adjunct Research Scientist - University of Michigan	2019 - Present
IPA / Guest Researcher - CDC	2020 - 2023
Postdoctoral Research Fellow - University of Michigan	2017 - 2019
Graduate Student Research Assistant - University of Michigan	2013 - 2017
Research Intern - SUMSRI / Miami University	2010
Research Assistant - University of Oklahoma	2009 - 2010
Research Intern - National Weather Center	2009

Publications

** indicates student/trainee co-author, ^ indicates equal contribution / shared first authorship*

Published Works

- 21 Turner, C., Stanhewicz, A., **Nielsen, K.**, Otis, J., Feresin, R., & Wong, B. (2025) Oral Contraceptive Pill Phase Alters Mechanisms Contributing to Cutaneous Microvascular Function in Response to Local Heating. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 238(3):R374-R385. DOI: 10.1152/ajpregu.00159.2024
- 20 **Nielsen, K.**, Mobley, K.*, Culbreth, R, Palmier, J., Matovu, G., Nabulya, A., & Swahn, M. (2025) Wearable Technology and Daily Diaries for Studying Mental Health: Lessons Learned from Pilot Studies in Kampala, Uganda. *Cambridge Prisms: Global Mental Health*, 2025;12:e17. DOI: 10.1017/gmh.2025.9

- 19 Thatcher, K., **Nielsen, K.**, Sandler, E., Daliet, O., Iddings, J., & Field-Fote E. (2025) Optimizing transcutaneous spinal stimulation: excitability of evoked spinal reflexes is dependent on electrode montage. *Journal of NeuroEngineering and Rehabilitation*, 22(2). DOI: 10.1186/s12984-024-01524-5
Res Sq [Preprint]. 2024 Aug 7. DOI: 10.21203/rs.3.rs-4719031/v1. PMID: 39149487; PMCID: PMC11326363.
- 18 Pondo, T., **Nielsen, K.**, Schmerer, M., Spicknall, I., Pollock, E., & Kreisel, K. (2025) Estimating the incidence of antimicrobial resistant *Neisseria gonorrhoeae* in the United States among men and women aged 15-39 years, 2008-2019. *Sexually Transmitted Diseases*, 52(5):p 273-278, May 2025. DOI: 10.1097/OLQ.0000000000002128
- 17 Gilmore, A., **Nielsen, K.**, Salamanca, N., Oesterle, D., Parekh, A., Leone, R., Orchowski, L., Ramakrishnan, V., Kaysen, D., & Davis, K. (2025). Preliminary efficacy of Positive Change (+Change): A randomized controlled trial of an integrated alcohol and sexual assault prevention program tailored by gender and sexual orientation. *Journal of Interpersonal Violence*, 40(11-12):2556-2581. DOI: 10.1177/08862605241275994
- 16 Erukunakpor, K., **Nielsen, K.**, Lane, M., Hornbeck, A., McClain, C., Fernando, R., Sietsema, M., Kraft, C., & Casanova, L. (2024) Wipe Disinfection of Reusable Elastomeric Half-Mask Respirators for Healthcare Use. *Workplace Health and Safety*, 72(12):550-558. DOI: 10.1177/21650799241273972
- 15 **Nielsen, K.**, Mobley, K.*, Culbreth, R., Palmier, J., Nabulya, A., & Swahn, M. (2024) Feasibility and Acceptability of Wearable Devices and Daily Diaries to Assess Sleep and Other Health Indicators among Young Women in the Slums of Kampala, Uganda. *Digital Health*, 2024; 10. DOI: 10.1177/20552076241288754
- 14 Swahn, M., Gittner, K., Lyons, M., **Nielsen, K.**, Mobley, K.*, Culbreth, R., Palmier, J., Johnson, N., Matte, M., & Nabulya, A. (2024) Advancing mHealth Research in Low-Resource Settings: Young Women's Insights and Implementation Challenges with Wearable Smartwatch Devices in Uganda. *Sensors*, 24, 5591. DOI: 10.3390/s24175591
- 13 Culbreth, R., **Nielsen, K.**, Mobley, K.*, Palmier, J., Bukuluki, P., & Swahn, M. (2024) Life Satisfaction Factors, Stress and Depressive Symptoms among Young Women Living in Urban Kampala: Findings from the TOPOWA Project Pilot Studies. *Int. J. Environ. Res. Public Health*, 21(2), 184; DOI: 10.3390/ijerph21020184
- 12 Gilmore, A., Moore, C., **Nielsen, K.**, Prince, J., Fortson, K., Mullican, K., Hutchins, A., Leone, R., & Ward-Ciesielski, E. (2024). Mixed method examination of alcohol and suicidality among actively suicidal adults who engage in heavy episodic drinking. *Addictive Behaviors*, 151, 107983. DOI: 10.1016/j.addbeh.2023.107938
- 11 Gayman, M., Stover, S., Tsukerman, K., **Nielsen, K.**, & Wilkin, W. (2024). Physical Limitations, Health Rumination/Worry and Depressive Symptoms: Gender Differences among African Americans. *Journal of Racial and Ethnic Health Disparities*. 11(5): 2560-2574. DOI: 10.1007/s40615-023-01721-3.
- 10 Marcantonio, T., **Nielsen, K.**, Haikalis, M., Leone, R., Woerner, J., Neilson, E., & Schipani-McLaughlin, A.M. (2023) Hey ChatGPT, Let's Talk About Sexual Consent. *The Journal of Sex Research*, 62(4), 433-444. DOI: 10.1080/00224499.2023.2254772.

- 9 Turner, C., Stanhewicz, A., **Nielsen, K.**, Otis, J., Feresin, R., & Wong, B. (2023) Effects of Biological Sex and Oral Contraceptive Pill Use on Cutaneous Microvascular Endothelial Function and Nitric Oxide-Dependent Vasodilation in Humans. *Journal of Applied Physiology*, 134, 858-867. DOI:10.1152/jappphysiol.00586.2022.
- 8 **Nielsen, K.**, St. Cyr, S., Pham, C. & Kreisel, K. (2023). Assessing the national representativeness of estimates of antimicrobial resistant urogenital *Neisseria gonorrhoeae* in US men, Gonococcal Isolate Surveillance Project, 2008-2018. *Sexually Transmitted Diseases* 50(4): 196-202. DOI: 10.1097/OLQ.0000000000001755.
- 7 Turner, C., Stanhewicz, A., **Nielsen, K.**, & Wong, B. (2023) Microvascular Endothelial Function Following Cessation of Long-Term Oral Contraceptive Pill Use: A Case Report. *Experimental Physiology*, 108(1), 5-11. DOI: 10.1113/EP090861.
- 6 Dal Cin, S., Mustafaj, M.*, & **Nielsen, K.** (2023). Patterns of Media Use and Leisure Time Among Older Adults. *New Media & Society*, 25(9). DOI: 10.1177/14614448211062393.
- 5 **Nielsen, K.**, Mejía, S., & Gonzalez, R. (2022). Deviations From Typical Paths: A Novel Approach to Working with GPS Data in the Behavioral Sciences. *International Journal of Health Geographics*. 21(5). DOI: 10.1186/s12942-022-00305-4.
- 4 Schipani-McLaughlin, A., **Nielsen, K.**, Mosley, E., Leone, R., Oesterle, D., Orchowski, L., Davis, K., & Gilmore, A. (2022). Alcohol Use and Alcohol-Related Consequences Based on Gender and Sexual Orientation among College Students. *American Journal on Addictions*, 31(3), 189-199. DOI: 10.1111/ajad.13283.
- 3 Mejía, S., **Nielsen, K.**, Raichur, V., Carmichael, A., Tavares, E., Jarvis, J., Smith, J., & Gonzalez, R. (2021). Assessment of Cognitive-motor Performance Costs, Task Prioritization, and Adaptation to Dishwashing under Increased Demand in Older Women with Arthritis. *Innovation in Aging*, 5(1). DOI: 10.1093/geroni/igaa059.
- 2 Agresta, C., Peacock, J., Carmichael, A., **Nielsen, K.**, Deneweth Zendler, J., & Gonzalez, R. (2020). The Perception of Ride is Multidimensional for Running Footwear. *Footwear Science*, 12(1), 15-24. DOI: 10.1080/19424280.2019.1706645.
- 1 **Nielsen, K.** & Gonzalez, R. (2020). Comparison of Common Amplitude Metrics in Event-Related Potential Analysis. *Multivariate Behavioral Research*, 55(3), 478-493. DOI: 10.1080/00273171.2019.1654358.

Peer-Reviewed Editorials and Letters to the Editor

Turner, C., Stanhewicz, A., **Nielsen, K.**, & Wong, B. (2023). Reply to Letter to the Editor in response to: Microvascular Endothelial Function Following Cessation of Long-Term Oral Contraceptive Pill Use. *Experimental Physiology*. DOI: 10.1113/EP091262.

Turner, C., Stanhewicz, A., **Nielsen, K.**, Otis, J., Feresin, R., & Wong, B. (2023). Reply to Colburn and Stachenfeld. *Journal of Applied Physiology* 135:2, 487-488. DOI: 10.1152/jappphysiol.00408.2023.

Published Abstracts and Conference Proceedings

Leonard, N.M., Wank, M., **Nielsen, K.**, Carmichael, A.G., Wisniewski, M., Raichur, V., & Gonzalez, R. (2019). Choreographing Interaction within the U-M Homelab: Considerations for an Older Adult Population (abstract) *Innovation in Aging*, 3(S1), S961-S962. DOI: 10.1093/geroni/igz038.3487.

Carmichael, A.G., Wisniewski, M., **Nielsen, K.**, Leonard, N.M., Wank, M., Raichur, V., & Gonzalez, R. (2019). Reflections from Homelab: Developing Tasks to Measure Upper-Body Function in a Simulated Home. (abstract) *Innovation in Aging*, 3(S1), S938-S939. DOI: 10.1093/geroni/igz038.3413.

Nielsen, K., Mejia, S.T., Gonzalez, R. & Carmichael, A. (2018). Deviation from Typical Paths as a Measure of Intraindividual Variation in Lifespace. (abstract) *Innovation in Aging*, 2(S1), 915. DOI: 10.1093/geroni/igy031.3405.

Carmichael, A., Raichur, V., Burnside, L., **Nielsen, K.**, Mejia, S.T., & Gonzalez, R. (2018). Practical Guidance on the Selection of Physiological Sensors for Gerontological Research. (abstract) *Innovation in Aging*, 2(S1), 677. DOI: 10.1093/geroni/igy023.2521.

Raichur, V., Mejia, S.T., **Nielsen, K.**, Carmichael, A., & Gonzalez, R. (2018). Differential Alignment of Subjective and Objective Measures of Effort by Older Adults in an IADL. (abstract) *Innovation in Aging*, 2(S1), 925. DOI: 10.1093/geroni/igy031.3439.

Raichur, V., Mejia, S.T., **Nielsen, K.**, Piszker, A., & Gonzalez, R. (2017). Physiological Measures of Fatigue to Quantify Older Adults' Muscle Activity During Everyday Tasks. (abstract) *Innovation in Aging*, 1(S1), 1207. DOI: 10.1093/geroni/igx004.4390.

Nielsen, K. & Gonzalez, R. (2017). Regression Spline Mixed Models for Testing Meaningful Land- marks in Time Series Data. (abstract) *Multivariate Behavioral Research*, 52(1), 116. DOI: 10.1080/00273171.2016.1265432.

Papers Submitted / Under Review

Rao, N.*, **Nielsen, K.**, Heiss, A., Pigott, T., & Whitaker, D. (accepted) Historical redlining and COVID-19 outcomes in Atlanta, Georgia: A multilevel approach to place-based research. *Race and Social Problems*.

Gurbani, A. *, **Nielsen, K.**, Maloney, K., & Arias, J. (under review) Predicting Missing Race and Ethnicity Data Using Imputation: Applying a Public Health Ethics Framework and the Need for More Guidance.

Culbreth, R, **Nielsen, K.**, Mobley, K.*, Palmier, J., Nabulya, A., Kasirye, R., & Swahn, M. (under review, R&R) Illegal drug use, sleep, and mental health among young women living in the slums of Kampala.

Wilkin, H., **Nielsen, K.**, Gayman, M. & Hollibush, J. (under review, R&R) Exploring Relationships Between Perceptions of the Built Environment, Connections to Neighborhood Storytellers, and Physical Activity.

Scipion, C.*, **Nielsen, K.**, Manchester, M, & Arias, J. (under review, R&R) Living in Medicaid- Expanded States and Diagnosis Experiences of People with Frontotemporal Dementia.

Kang, Y.J., **Nielsen, K.**, Xu, H., & McGee, B. (submitted) Nurse Staffing Disparities in Nursing Homes: Interaction Between Local Socioeconomic Conditions and the COVID-19 Pandemic.

Arias, J., **Nielsen, K.**, Bolcic-Jankovic, D., Bonham, L.W., Campbell, E.G., Lah, J.J., Scipion, C.E.A., Wang, Y., Wolf, L.E., Mello, M.M., & Yokoyama, J.S. (submitted) Data Sharing Among Alzheimer's Disease and Related Dementias Researchers.

Mobley, K. *, Gittner, K., **Nielsen, K.**, Matheny, L., Taasobshirazi, G., Natuhama, C., & Swahn, M. (submitted) Analyzing Missingness in Longitudinal Sleep Stage Data from Wearable Fitness Trackers.

Grants and Funding

External - Current

AIM-AHEAD PAIRS Cohort 2 Phase 1 (Kang, Liu, & Nielsen, MPIs) 05/01/25 - 04/30/26
NIH/AIM-AHEAD/UNTHSC \$99,537

Improving Health Outcomes in High-Risk Nursing Home Residents: Advancing Sepsis Prediction Models with Cardiometabolic Health Indicators

Role: Multiple Principal Investigator

Alzheimer's Disease Data Initiative (Arias, PI) 01/01/25 - 12/31/26
Gates Ventures \$500,000

International Barriers to Data Sharing in AD/ADRD Research

Role: Co-Investigator

R21 AA030385 (Schipani-McLaughlin, PI) 06/01/23 - 05/31/26
NIH/NIAAA \$275,000

Digital Media Messages Targeting Alcohol-involved Bystander Intervention: A Pilot Study

Role: Co-Investigator

R01 AG080093 (Arias, PI) 02/15/23 - 11/30/27
NIH/NIA \$2,805,498

Identifying Barriers to Optimizing Data Sharing and Accelerate Discovery in Alzheimer's Disease and Related Dementia Research

Role: Co-Investigator

22-20-68-SCOT (Scott, PI) 07/01/22 - 03/30/26
American Association for Cancer Research \$16,289 (sub)

Structural inequity and breast cancer disparities by subtype

Role: Co-Investigator

R01 MH128930 (Swahn, PI) 01/18/22 - 12/31/26
NIH/NIMH \$187,100 (sub)
TOPOWA Study: Social Drivers of Mental Illness among AGYW in Slums
Role: Co-Investigator

R01 HD101812 (Field-Fote, PI) 08/27/21 - 04/30/27
NIH/NICHHD \$100,598 (sub)
Calibrating Transcutaneous Spinal Stimulation for Spasticity, Pain, and Motor Function in SCI
Role: Co-Investigator

Internal - Current

Scholarly Support Grant (Gayman & Nielsen, co-PIs) 07/01/25 - 06/30/26
GSU ORD \$19,100
Jail Exposure & Recidivism Study: The Impact of Using Jail Sanctions in Probation
Role: co-Principal Investigator

External - Completed

20IPA2013636 (Nielsen, PI) 09/30/20 - 09/29/22
CDC, Division of STD Prevention, Surveillance & Data Management Branch \$113,400
National Estimates of Antimicrobial-Resistant Gonorrhea Among U.S. Men
Role: Principal Investigator

Internal - Completed

Instructional Innovation Mini-Grant (Nielsen, PI) 07/01/24 - 06/30/25
GSU CETLOE \$2,930
Development of a Training Module on Generative AI Use for Biostatistics Graduate Curricula
Role: Principal Investigator

External - Pending Review

PRMRP CTA (Potter & Salazar, co-PIs) July 2025
DoD \$3,687,917
Evaluation of cross-cutting e-health prevention approaches to address multiple adverse outcomes at Military Colleges
Role: Co-Investigator

R01 (Calhoun, PI) July 2025
NIH \$4,001,568
Data-driven dynamic activity/connectivity methods for early detection of Alzheimer's disease and related disorders
Role: Co-Investigator

External - Not Funded

Major Grants - LOI (Nielsen & Schipani-McLaughlin, co-PIs) 2025
William T. Grant Foundation \$575,000
Engaging Campus Decision-makers to Improve the Use of Research Evidence on Sexual Assault Prevention: An Immersive Virtual Reality Tool on Bystander Intervention for College Students
Role: Contact Principal Investigator

R34 (Ramirez, PI) 2024
NIH/NIAAA \$702,000
Alcohol and Sexual Assault Risk Reduction for Latina College Women
Role: Co-Investigator

R01 (Gilmore, PI) 2024
NIH/NIAAA \$3,914,750
Tailored Personalized Normative Feedback to Reduce Alcohol Use among Black and Latine College Students
Role: Co-Investigator

R01 (Iddings, PI) 2024
NIH/NICHHD \$170,240 (sub)
Comparative Effectiveness of Bihemispheric Excitatory Non-Invasive Brain Stimulation Modalities for Neuromodulation and Bimanual Functional Restoration in Persons with Cervical Spinal Cord Injury
Role: Co-Investigator

R01 (Swahn, PI) 2024
NIH/NIMH \$359,985 (sub)
TOWANIKA Study: Suicide Prevention for Young Men
Role: Co-Investigator

R34 (Gilmore and Salazar, co-PIs) 2023
NIH/NIAAA \$702,000
Integrating Suicide Prevention into Evidence-Based Prevention for Sexual Assault and Alcohol Misuse
Role: Co-Investigator

R01 (Gilmore, PI) 2023
NIH/NIAAA \$3,914,395
Examining Peer Influences in Alcohol and Sexual Violence
Role: Co-Investigator

R01 (Scott, PI) 2023
NIH/NCI \$2,730,000
Measures of structural racism as predictors of breast cancer in Black women
Role: Co-Investigator

R01 (Wong, PI) 2023
NIH/NHLBI \$3,299,071
Mechanisms of microvascular function in premenopausal women
Role: Co-Investigator

R21 (Laures-Gore, PI) 2023
NIH/NIDCD \$3,914,750
**Identifying modifiable factors contributing to the language variability of persons with aphasia:
Sleep and perceived stress**
Role: Co-Investigator

R21 (Mejia, PI) 2023
NIH/NIA \$26,872 (sub)
The Dynamics of Fall Risk in Daily Life as a New Target for Fall Prevention
Role: Co-Investigator

R34 (Gilmore, PI) 2021
NIH/NIMH \$718,177
Prevention of Suicidal Ideation and Behavior While Intoxicated
Role: Co-Investigator

PCORI-2020-Cycle-3 (Jones, PI) 2021
PCORI \$459,056 (sub)
**Comparing Transition Support Interventions for Family Caregivers of Patients with Acquired
Brain Injury (ABI)**
Role: Co-Investigator

R21 (Wong, PI) 2020
NIH/NHLBI \$419,370
Microvascular function across the normal menstrual cycle
Role: Co-Investigator

Select Other Competitive Support and Sponsored Training

SPH Virtual Computer Lab (with K. Masyn), \$28,980, *July 2025 - June 2026*
GSU Technology Fee Funding Award

SPH Virtual Computer Lab (K. Masyn, lead), \$22,320, *July 2024 - June 2025*
GSU Technology Fee Funding Award

ARI in Aging and Mental Health Mentored Biostatistics Faculty Program, *Spring 2023*
Mental Health and Aging Research Network

NCFDD Faculty Success Program, *Summer 2022*
Georgia State University Provost's Office / School of Public Health

Instructional Development Fund (B. Gunderson, lead), \$495, *September 2016 - September 2017*
Center for Research on Learning and Teaching, University of Michigan

SMEP Travel Funds (based on competitive presentation selection), \$1500, *August 2016*
Society of Multivariate Experimental Psychology

Special Student Funding (competitive award), \$900, *July 2014*
American Statistical Association

Statistics Department First-Year Fellowship, *August 2011 - May 2012*
University of Michigan Department of Statistics

Teaching and Mentorship

Teaching Experience

Assistant Professor - Georgia State University

PHPH 8525	Introduction to Programming in R for Public Health	Spring 2025
PHPH 8830	Advanced Statistical Topics	Spring 2023
PHPH 9810	Biostatistics I	Fall 2022
		Fall 2023
		Fall 2024
		Fall 2025
PHPH 7027	Fundamentals of Biostatistics II	Spring 2020
		Fall 2020
		Fall 2021

Graduate Student Instructor - University of Michigan

STATS 250	Introductory Statistics	Fall 2011
		Winter 2012
		Spring 2012
		Fall 2012
		Winter 2013
	Special Mention for Teaching Award, 2012	
	Outstanding Teaching Award, 2013	

Graduate Student Mentor - University of Michigan 2012-2013

Graduate Media Assistant - University of Michigan 2012-2015

Graduate Teaching Consultant - University of Michigan 2013-2017

Teaching Assistant - University of Oklahoma
PSY 2113 Research Methods I Fall 2008

Guest Lectures

PHPH 8830 Advanced Statistical Topics - Georgia State University	Statistics Under the Skin: Analyzing Physiological Data	Fall 2019
		Spring 2021
		Spring 2022
		Spring 2024
		Spring 2025
	Programming in R	
PHPH 7294 Exposure Assessment - Georgia State University	Biostatistics Methods for Public Health Research	Spring 2021
PHPH 7992 Integrative Learning Experience - Georgia State University	Principles of Data Visualization	Spring 2023

Dissertation Committees

Erin Stokes	Georgia State University	School of Public Health	DrPH	2025 (expected)
Kate Mobley	Kennesaw State University	Data Science and Analytics	PhD	2025 (expected)
Kennicia Fortson	Georgia State University	School of Public Health	PhD	2024
Nikita Rao	Georgia State University	School of Public Health	PhD	2024
Kristy Hayes	Georgia State University	School of Public Health	DrPH	2021
Sarah Anderson	Georgia State University	School of Public Health	PhD	2021

Thesis & Capstone Committees

* - Indicates chaired committee ^ - Indicates capstone committee

Nneka Odimgbe ^	Georgia State University	School of Public Health	MPH	2025 (expected)
Harry Cole	Georgia State University	School of Public Health	MPH	2025
Catherine Scipion	Georgia State University	School of Public Health	MPH	2024
Aruba Muhammad	Georgia State University	School of Public Health	MPH	2023
Kelly Murray *	Georgia State University	School of Public Health	MPH	2022
Alyssa Bartlett	Georgia State University	School of Public Health	MPH	2021
Amber Grant	Georgia State University	School of Public Health	MPH	2021
Roman Ivasiy	Georgia State University	School of Public Health	MPH	2021
Quonesha Douglas	Georgia State University	School of Public Health	MPH	2020

Presentations and Posters

Nielsen, K. (planned – Nov 2025) Design, Collection, Cleaning, and Analysis: Managing Wearable Sensor Data Across the Study Lifecycle. Oral Presentation at Women in Statistics and Data Science conference, Cincinnati, OH.

Mobley, K., Gittner, K., **Nielsen, K.**, Matheny, L., Taasobshirazi, G., & Swahn, M. (planned - Nov 2025) Analyzing missingness in the longitudinal sleep stage data from wearable fitness trackers and modeling the data. Poster presented at American Public Health Association Annual Meeting and Expo, Washington, D.C.

Nielsen, K., Culbreth, R., Mobley, K., Matovu, G., & Swahn, M. (planned - Nov 2025) Building a Wearable Data Pipeline for Behavioral Health Research in Low-Resource Settings. Poster presented at American Public Health Association Annual Meeting and Expo, Washington, D.C.

Kang, Y.J.^, **Nielsen, K.**^, & Liu, J. (2025) Understanding Sepsis Risk and Presentation in Nursing Home Residents. Oral Presentation at AIM AHEAD Conference, Dallas, TX. (^co-presented)

Nielsen, K. (2024). Exploring Opportunities in Wearable Data Analysis. Oral Presentation at Women in Statistics and Data Science conference, Reston, VA.

Nielsen, K. & Mobley, K. (2023). TOPOWA Project: Using Wearable Sensors in Mental Health Research. Invited talk at the INTEGHRAL Hub, Bugolobi, Kampala, Uganda.

Thrash, A. E., Marcantonio, T. L., **Nielsen, K.**, Haikalis, M., Leone, R. M., Woerner, J., Neilson, E. C., & Schipani-McLaughlin, A. M. (2023). Hey ChatGPT, What is sexual consent? Poster presented at the annual meeting for the Scientific Study of Sexuality; New Orleans, LA.

Murray, K., Swahn, M., Papova, L., & **Nielsen, K.** (2023). Alcohol marketing exposure and hazardous drinking among young adults in Uganda and the United States: A cross-cultural comparative analysis by gender. Poster presented at the annual meeting for the American Public Health Association; Atlanta, GA.

Culbreth, R., Swahn, M., **Nielsen, K.**, & Mobley, K. (2023). A mixed methods approach for assessing sleep quality and mental health: A pilot study of young women living in the urban slums of Kampala, Uganda. Oral presentation at the American Public Health Association Meeting; Atlanta, GA.

Culbreth, R., Swahn, M., **Nielsen, K.**, & Mobley, K. (2023). Sleep Quality, Food Scarcity, and Mental Health among a Pilot Study of Young Women living in the Slums of Kampala, Uganda. Oral presentation at the International Conference on Urban Health; Atlanta, GA.

Mobley, K., **Nielsen, K. E.**, Culbreth, R., & Swahn, M. (2023). Exploring the Impact of Urban Stressors on Mental Health in Uganda: Perspectives from Young Women in Kampala's Urban Slums. Oral presentation at the International Conference on Urban Health; Atlanta, GA.

Nielsen, K. (2022). Applying Statistical Thinking to Public Health. Georgia State University Currents of Public Health Webinar, Virtual/Atlanta, GA.

Nielsen, K., Mejia, S., Gonzalez, R., & Carmichael, A. (2018). Deviation from Typical Paths as a Measure of Intraindividual Variation in Lifespace. Poster presentation at Gerontological Society of America's Annual Scientific Meeting, Boston, MA.

- **Abstract Published, see above**

Nielsen, K., Gonzalez, R., Mejia, S., & Raichur, V. (2016). Combining Biophysiological Streams to Disentangle Cognitive and Physical Components of Everyday Life. Poster presentation at Gerontological Society of America's Annual Scientific Meeting, New Orleans, LA.

Nielsen, K. & Gonzalez, R. (2016). Regression Spline Mixed Models for Testing Meaningful Landmarks in Time Series Data. Poster presentation at the 14th Annual Society of Multivariate Experimental Psychology (SMEP) Graduate Student Conference, Richmond, VA.

- **Abstract Published, see above**

Nielsen, K. & Gonzalez, R. (2016). Capitalizing on the Use of Basis Sets in Regression Spline Mixed Models. Oral presentation at the Joint Statistical Meetings (JSM), Chicago, IL.

Nielsen, K. & Gonzalez, R. (2016). Exploring Event-Related Potentials via Regression Spline Mixed Models. Poster at Modeling of Neural Activity (MONA2), Waikoloa, HI.

Mejia, S., Carmichael, A., Gonzalez, R., Jackson, J. & **Nielsen, K.** (2016). Toward the Collection of Multiple Biophysical Assessments during Everyday Activities: Challenges and Applications. Poster at Society 2030: Anticipating the Demands of a Changing Society Research Meetings, Ann Arbor, MI.

Nielsen, K. & Gonzalez, R. (2016). Regression Spline Mixed Models for Analyzing EEG Data and Event-Related Potentials. Poster at Society 2030: Anticipating the Demands of a Changing Society Research Meetings, Ann Arbor, MI.

Nielsen, K. (2016). Capitalizing on the Use of Basis Sets in Regression Spline Mixed Models. Oral Presentation at the Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), Ann Arbor, MI.

Dal Cin, S., Carmichael, A., Guedes de Nonohay, R., **Nielsen, K.** Wills, T., & Gobbons, F. (2016). The Eyes Have It?: Use of Dynamic Eye Tracking in Narrative Effects Research. Poster at the Society for Personality and Social Psychology, San Diego, CA.

Nielsen, K. & Gonzalez, R. (2015). Regression Spline Mixed Models for Analyzing EEG Data and Event-Related Potentials. Poster at From Industrial Statistics to Data Science (conference in honor of Vijay Nair), Ann Arbor, MI.

Nielsen, K. & Gonzalez, R. (2015). Regression Spline Mixed Models for Analyzing EEG Data and Event-Related Potentials. Lightning Talk at the International R User Conference (user!2015), Aalborg, Denmark.

Nielsen, K. & Gonzalez, R. (2015). Regression Spline Mixed Models for Analyzing EEG Data and Event-Related Potentials. Poster at the Seventh International Workshop for the Statistical Analysis of Neuronal Data (SAND7), Pittsburgh, PA.

Nielsen, K. & Gonzalez, R. (2015). Regression Spline Mixed Models for Analyzing EEG Data and Event-Related Potentials. Poster at the Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), Ann Arbor, MI.

- **Best Poster Award**

Nielsen, K. & Gonzalez, R. (2014). Bivariate Interaction Models in the Context of Generalized Linear Mixed Models. Oral presentation at the Joint Statistical Meetings (JSM), Boston, MA.

Nielsen, K. & Gonzalez, R. (2014). Bivariate Interactions. Poster at the University of Michigan Researchpalooza, Ann Arbor, MI.

Gunderson, B. & **Nielsen, K.** (2014). Using Actionable Intelligence to to Enhance Student Success in Introductory Statistics Courses. Poster at the International Conference On Teaching Statistics (ICOTS), Flagstaff, AZ.

Nielsen, K. & Gonzalez, R. (2014). Bivariate Interactions. Poster at the Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), Ann Arbor, MI.

Gunderson, B. & **Nielsen, K.** (2014). Using Technology to Provide Personalized Coaching and Tailored Feedback to STEM Students. Oral presentation at the 7th Annual Emerging Technologies for Online Learning International Symposium (ET4Online), Dallas, TX.

Casey, S. & **Nielsen, K.** (2013). GAISEing into the Common Core Statistics Standards: A Chapter's Grassroots Approach to Preparing Teachers. Invited webinar for the American Statistical Association's (ASA) K-12 Statistics Education Webinar Series.

Lloyd, B. & **Nielsen, K.** (2013). Being a Successful Lab Instructor. Information session for the Engineering Graduate Student Instructor Teaching Orientation (EGSITO), Ann Arbor, MI.

Fisher, A. & **Nielsen, K.** (2013). Facilitating Group Work to Maximize Learning in Labs and Discussions. Information session for the Graduate Student Instructor Teaching Orientation (GSITO), Ann Arbor, MI.

Kerner, N., Gunderson, G., Bonem, E., **Nielsen, K.**, Rottenstein, A., & Winschel, G. (2012). Integration of Technology into Undergraduate Education via Cross-Disciplinary Pollination. Oral presentation at the 5th Annual Emerging Technologies for Online Learning International Symposium (ET4Online), Las Vegas, NV.

- Effective Practice Award

Nielsen, K., Good, M., Kinson, C., & Thiam, M. (2011). The Fairest of Them All: Using Variations of the Beta-Binomial Distribution to Investigate Robust Scoring Methods. Poster at the Joint Math Meetings (JMM), New Orleans, LA.

Nielsen, K., Good, M., Kinson, C., Rapp-Olsson, M., & Thiam, M. (2011). Using Variations of the Beta-Binomial Distribution to Investigate Robust Scoring Methods. Oral presentation at the University of Oklahoma (OU) Honors College Undergraduate Research Day (URD), Norman, OK.

Good, M., Kinson, C., **Nielsen, K.**, Rapp-Olsson, M., & Thiam, M. (2010). The Fairest of Them All: Using Variations of the Beta-Binomial Distribution to Investigate Robust Scoring Methods. Oral presentation at the Shenandoah Undergraduate Mathematics and Statistics (SUMS) Conference, Harrisonburg, VA.

Nielsen, K. & Weaver, C. (2009). Evaluating Interaction in Visualization Tools in Meteorology. Oral presentation at the National Weather Center (NWC) Research Experiences for Undergraduates (REU) Final Presentations, Norman, OK.

Workshop Facilitation and Trainings

Booth, C., Feemster, N., LaSota, D., **Nielsen, K.**, Schwartz, L., & Tilbury, J. (2024). AI and Your Teaching Practice. Invited panelist. University of Alaska Fairbanks. Virtual.

Stauber, C. & **Nielsen, K.** (2023) Scientific Writing. 2-day workshop for Laboratory Leadership Service Fellowship Program at Centers for Disease Control and Prevention (CDC), Atlanta, GA.

Minonne, F., **Nielsen, K.**, Peplin, K., Ghekas, J., Sutter, S., Greenberg, R., & Bakewell, M. (2016) Canvas for GSIs: Pedagogies and Practicalities. Workshop hosted by the Center for Research on Learning and Teaching (CRLT), Ann Arbor, MI.

Minonne, F., **Nielsen, K.**, Peplin, K., Garcia, M., Ghekas, J., Sutter, S., Greenberg, R., & Bakewell, M. (2015) Canvas for GSIs. Workshop hosted by the Center for Research on Learning and Teaching (CRLT), Ann Arbor, MI.

Minonne, F. & **Nielsen, K.** (2015) Everyday Technologies in Your Teaching. Workshop hosted by the University of Michigan's Teaching and Technology Collaborative during Enriching Scholarship, Ann Arbor, MI.

Bridges, T., Harmon, A., & **Nielsen, K.** (2015) Let's Make a Screencast! Workshop hosted by the University of Michigan's Teaching and Technology Collaborative during Enriching Scholarship, Ann Arbor, MI.

Bakewell, M., Bridges, T., Erbaggio, P., Harmon, A., Minonne, F., **Nielsen, K.**, Suhadolnik, S., & Sutter, S. (2015). Organize, Streamline, and Simplify. Workshop hosted by the Center for Research on Learning and Teaching (CRLT), Ann Arbor, MI.

Bakewell, M., Bridges, T., Erbaggio, P., Harmon, A., Minonne, F., **Nielsen, K.**, Suhadolnik, S., & Sutter, S. (2014). Next Steps with IT. Workshop hosted by the Center for Research on Learning and Teaching (CRLT), Ann Arbor, MI.

Casey, S., Fankel, M., Gunderson, B, **Nielsen, K.**, & Ross, A. (2014). GAISEing into the Common Core. One-day workshop for the Kent Intermediate School District (ISD), Grand Rapids, MI.

Bakewell, M., Bonem, E., Engel, S., Harmon, A., & **Nielsen, K.** (2014). Checking for Understanding and Giving Feedback. Online workshop hosted by the Center for Research on Learning and Teaching (CRLT).

Bakewell, M., Bonem, E., Engel, S., Harmon, A., Kilgore, T., & **Nielsen, K.** (2014). Next Steps with IT. Workshop hosted by the Center for Research on Learning and Teaching (CRLT), Ann Arbor, MI.

Jackman, D., Harmon, A., & **Nielsen, K.** (2014). How Can Technology Help Me Teach More Effectively: CTools, Google, and Beyond. Workshop for the Graduate Student Instructor Teaching Orientation (GSITO), Ann Arbor, MI.

Bakewell, M., Bonem, E., Engel, S., Harmon, A., Kilgore, T., & **Nielsen, K.** (2013). Next Steps with IT. Workshop hosted by the Center for Research on Learning and Teaching (CRLT), Ann Arbor, MI.

Casey, S., Fankel, M., Gunderson, B, **Nielsen, K.**, & Ross, A. (2013). GAISEing into the Statistics Common Core. Three-day workshop for the Ann Arbor Public Schools, Ann Arbor, MI.

Service - Professional

Journal Editorial Review Boards and Committees

Preventing Chronic Disease: Public Health Research, Practice, and Policy <i>Statistics Review Committee</i>	2022 - present
Innovation in Aging <i>Editorial Board Member: Quantitative Methodology Specialist</i>	2025 - present

Ad Hoc Manuscript Reviews

Journal of Statistics and Data Science Education

NeuroImage

Health Education Research

Journal of Pediatric Rehabilitation Medicine

JMIR mHealth and uHealth

Ad Hoc Abstract Reviews

Society for Multivariate Experimental Psychology Student Abstracts
for presentation and publication in Multivariate Behavioral Research 2017

Professional Organization Contributions

American Statistical Association (ASA)
 Member (by invitation) - Committee on Women in Statistics 2023 - present
 Ann Arbor Chapter Representative 2016
 Judge - Ann Arbor Chapter Award for Best Statistics Application at MSSISS 2018, 2019

Service - Georgia State University

University

Member - Convened Panel, Institutional Review Board (IRB) 2025 - Present
 Member, COVID-19 Public Health Advisory Committee 2020
 Member, University Tech Fee Voting Committee 2020

School of Public Health

Co-supervisor, Graduate Biostatistics Computer Lab 2019 - Present
 MPH and Graduate Certificate Admissions 2019 - Present
 Advising for MPH, DrPH Biostatistics Concentration Change and Course Waivers 2021 - Present
 Member, DrPH Program Committee 2022 - Present
 Member / Biostatistics Representative, Academic Affairs Committee 2023 - Present
 Faculty Lead, Graduate Certificate in Applied Biostatistics 2024 - Present
 Liaison, Excellence in Inclusive Teaching Experience (ExITE) Workshop 2025 - Present
 Member, SPH Tech Fee Voting Committee 2025 - Present
 Chair, Applied Biostatistics Graduate Certificate Development Committee 2022 - 2024
 Member, Academic Affairs Sub-Committee for PhD Curriculum 2022 - 2023
 Member, JEDI Council 2022 - 2023
 Member, Grand Rounds and Works in Progress Committee 2022 - 2023
 Member, SPH Research Conference Committee 2022 - 2023
 Member, Strategic Planning Task Force 2021 - 2022
 Member, Academic Affairs Sub-Committee for MPH Curriculum 2020 - 2021
 Representative, Data Science in Public Health Summit at Columbia Mailman SPH 2020

Service - Community and Outreach

Co-organized ASA/COWIS-Sponsored Career Webinars 2025
 (See also “Professional Memberships - Committee on Women in Statistics”)
 Ann Arbor Data Dive Participant / Consultant 2017
 Class visit to Pioneer High School AP Stats Class 2014
 Co-organized ASA-Sponsored ‘Statistics in the Common Core’ Workshops 2013 - 2014
 (See “Workshops” and “Presentations” for related events)

Awards and Honors

Georgia State Hall of Fame “Champion” 2020
Georgia State University Provost’s Office
(For contributions to campus COVID-19 surveillance - provost.gsu.edu/champions)

Best Poster Presentation 2015
University of Michigan Department of Statistics / MSSISS Conference
(See “Presentations” for details)

Best Academic Progress 2014
University of Michigan Department of Statistics

Outstanding Teaching Award 2013
University of Michigan Department of Statistics
(See “Teaching Experience” for details)

Special Mention for Teaching 2012
University of Michigan Department of Statistics
(See “Teaching Experience” for details)

Award Nominations

Outstanding Tenure Track Faculty Achievement Award 2025
Georgia State University
(nomination by department chair with 3 additional letters of support)

Excellence in Research Award 2023
Georgia State University School of Public Health
(nomination by department chair)