Graham Buhrman

PHD STUDENT · EDUCATIONAL PSYCHOLOGY: QUANTITATIVE METHODS

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Education	
University of Wisconsin-Madison PHD EDUCATIONAL PSYCHOLOGY • Advisors: Dr. Jee-Seon Kim and Dr. James Pustejovsky	Madison, W 2022 - present
University of Wisconsin-Madison MS EDUCATIONAL PSYCHOLOGY • Advisors: Dr. Jee-Seon Kim and Dr. James Pustejovsky	Madison, W 2022 - 2024
North Carolina State University BS Interdisciplinary Studies • Minor in statistics • Honors thesis advisor: Dr. Vanessa Volpe	Raleigh, NC 2018 - 2022
Professional Experience	
Development Services Group, Inc. CONSULTANT • Write and review procedures for calculating and coding effect sizes from crime and justice literature • Troubleshoot errors in effect size calculation and advise coding decisions	Bethesda, MD (remote, 2024-present
University of Wisconsin-Madison - Testing and Evaluation Services PROJECT ASSISTANT • Conduct and summarize analyses of placement testing data for item evaluation and development • Describe trends in accommodated testing and utilization of testing space on campus	Madison, W 2024-present
University of Wisconsin-Madison - Center for Teaching Learning and Mentoring EVALUATION SPECIALIST • Evaluate the efficacy of programs for academic staff and faculty via descriptive analysis and data visu • Interview academic staff about experience with professional development programs	<i>Madison, W.</i> 2023-2024 Palization
North Carolina State University - University Honors and Scholars Program RESIDENT MENTOR • Serve as an academic assistant for Honors and Scholars Program seminars • Mentor first-year undergraduates in the Honors and Scholars Program	Raleigh, NC 2019-2020
University of Carolina at Chapel Hill - Carolina Institute for Developmental Disabilities PSYCHOLOGY INTERN • Administer and score developmental assessments • Conduct behavioral observations and discuss optimal intervention plans	Chapel Hill, NC 2019
Manuscripts	
PURUSHED	

Volpe, V. V., Ross, J., Holland, M., Badejoh, O., & **Buhrman, G. W.**. (accepted). Online health information searching and health advertisement exposure among Black young adult social media users. *Journal of Health Psychology*.

Buhrman, G. W., Liao, X., & Kim, J.-S. (2025). Using nonparametric regression trees to estimate different forms of heterogeneous treatment effects. In Kim, J.-S., Wu, H., Sweet, T. M., Molenaar, D., Junker, B. W., Moustaki, I., Harring, J., Bulut,

- O., Tong, X., Wallin, G., & Di Plinio, S. (Eds.), *Proceedings of the International Meeting of the Psychometric Society: The 89th Annual Meeting, Prague, Czech Republic, 2024.* https://doi.org/10.64028/pulr698375
- Kim, J.-S., **Buhrman, G. W.**, & Liao, X. (2025). Beyond averages: Portraying treatment effect variation. In Kim, J.-S., Wu, H., Sweet, T. M., Molenaar, D., Junker, B. W., Moustaki, I., Harring, J., Bulut, O., Tong, X., Wallin, G., & Di Plinio, S. (Eds.), *Proceedings of the International Meeting of the Psychometric Society: The 89th Annual Meeting, Prague, Czech Republic, 2024*. https://doi.org/10.64028/xvhr927961
- **Buhrman, G. W.**, Liao, X., & Kim, J.-S. (2024). Exploring conceptual differences between nonparametric estimators of treatment heterogeneity in the context of clustered data. In Wiberg, M., Kim, J.-S., Hwang, H., Wu., H., & Sweet, T. (Eds.)., *Quantitative psychology: The 88th Annual Meeting of the Psychometric Society, College Park, Maryland, 2023.* New York: Springer.
- Volpe, V. V., **Buhrman, G. W.**, Boaheng, P., Holliday, D., Nick, E. A., & Criss, S. (2023). "Speak[ing] my mind": Reasons for using Twitter and the online experiences, critical media literacy, and racial identity of Black American emerging adults. *Journal of Media Psychology*, 35(5). https://doi.org/10.1027/1864-1105/a000387.
- Ganguly, I., **Buhrman, G. W.**, Mun, S. K., Kline, E., & Sengupta, S. (2023). Automated error labeling in radiation oncology via statistical natural language processing. *Diagnostics*, *13*(7). https://doi.org/10.3390/diagnostics13071215.
- Neukrug, H., Benson, G. P., **Buhrman, G. W.**, & Volpe, V. V. (2022). Affect reactivity and lifetime racial discrimination among Black college students: The role of coping. *American Journal of Orthopsychiatry*, 92(4). https://doi.org/10.1037/ort0000630.

UNDER REVIEW

- **Buhrman, G. W.**, Tan, H. L., Hanita, M., Campos-Pereira, M., Kennedy, J. L., Zweig, J., Kaiser, A., Waterman, K. P., & Tally, W. (2025). Measuring Historical Empathy in middle and high school students: The Historical Empathy Measure. *Journal of Social Studies Research*
- Kennedy, J. L., Tally, W., Zweig, J., Hanita, M., & **Buhrman, G. W.**, Tan, H. L., Kaiser, A., Campos-Pereira, M., & Waterman, K. P. (2025). Conducting rigorous research in social studies classrooms: Lessons from a pandemic-era randomized controlled trial. *Journal of Research on Educational Effectiveness*.

Awards, Fellowships, & Grants				
2024	Student Travel Award, Psychometric Society	\$ 1,250		
2022- present	Interdisciplinary Training Program in Education Sciences Fellowship, United States Department of Education	\$ 36,000		
2022	Richard L. Blanton Outstanding Capstone Award , North Carolina State University Honors and Scholars Program	\$ 250		
2021	Undergraduate Research Award , North Carolina State University Office of Undergraduate Research	\$ 2,000		
	Award Name, North Carolina State University University Honors and Scholars Program	\$ 1,000		
2019-2022 2019-2020	Caldwell Fellowship, North Carolina State University James F. Kelly Scholarship, North Carolina State University	\$ 7,500 \$ 350		

Presentations

CONTRIBUTED PRESENTATIONS

- **Buhrman, G. W.***, Kim, J.-S. & Lyu, W. (2025, July 18). Can we turn the dial on shrinkage? A comparative study of models for heavy-tailed random effects [Paper presentation]. International Meeting of the Psychometric Society, Minneapolis, MN, United States.
- Kim, J.-S.*, **Buhrman, G. W.**, Liao, X., & Loh, W. W (2025, July 18). *A taxonomy of heterogeneity in causal effects* [Paper presentation]. International Meeting of the Psychometric Society, Minneapolis, MN, United States.

^{*} presenting author(s)

- Hanita, M., **Buhrman, G. W.***, Kennedy, J. L.*, Zweig, J., Tan, H. L., Kaiser, A., & Waterman, K. P. (2024, September 21). *U.S. history through young people's eyes: a randomized controlled trial of Mission US* [Paper presentation]. Society for Research on Educational Effectiveness, Baltimore, MD, United States.
- **Buhrman, G. W.***, Liao, X., & Kim, J.-S. (2024, July 18). *Monotonicity matters: Evaluating heterogeneous treatment effect estimation via nonparametric regression tree methods* [Paper presentation]. International Meeting of the Psychometric Society, Prague, Czech Republic.
- Kim, J.-S.*, Liao, X., **Buhrman, G. W.**, & Loh, W. W. (2024, July 18). *An overarching framework for examining diverse forms of heterogeneous causal effects* [Paper presentation]. International Meeting of the Psychometric Society, Prague, Czech Republic.
- **Buhrman, G. W.***, Liao, X., & Kim, J.-S. (2023, July 25). Exploring conceptual differences between nonparametric estimators of treatment heterogeneity in the context of clustered data [Poster session]. International Meeting of the Psychometric Society, College Park, MD, United States.
- **Buhrman, G. W.***, & Volpe, V. V. (2022). Stress from hateful anti-Black Twitter content and the mental health of Black young adult Twitter users. Poster: North Carolina State University, Interdisciplinary Studies, Raleigh, NC.

INVITED TALKS

2024, October 4. *U.S. history through young people's eyes: a randomized controlled trial of Mission US*. [Seminar presentation] Interdisciplinary Training Program, University of Wisconsin-Madison, Madison, WI.

Teaching Experience _____

Spring 2025

Hierarchical Linear Modeling, Teaching Assistant

Madison, WI

Research Experience _

Education Development Center

Madison, WI

SUPERVISOR: DR. JOY KENNEDY

2023-2025

- Project: National efficacy trial for Mission US
- Funded by: United States Department of Education

University of Wisconsin-Madison - Dept. of Educational Psychology

Madison, WI

SUPERVISOR: DR. JEE-SEON KIM

2022

- Project: RISE Iowa: Developing training for addiction treatment interventions
- Funded by: National Institutes of Health

North Carolina State University - Dept. of Psychology

Raleigh, NC

ADVISOR: DR. VANESSA VOLPE

2021-2022

- Honor's Thesis: Stress from hateful anti-Black Twitter content and the mental health of Black young adult Twitter users
- Funded by: Office of Undergraduate Research, University Honors and Scholars Program

North Carolina State University - Dept. of Statistics

Raleigh, NC

ADVISOR: DR. SRIJAN SENGUPTA

2021

- · Project: Natural language processing tools for error detection in radiation oncology treatments
- Funded by: National Institutes of Health

North Carolina State University - Dept. of Psychology

Raleigh, NC

ADVISOR: DR. VANESSA VOLPE

2020-2022

- Projects: Effects of online racism, Affect reactivity and lifetime racial discrimination among Black college students: The role
 of coping, Online experiences of and reasons for using Twitter among Black young adults
- Funded by: National Institutes of Health

Outreach & Professional Development _____

SERVICE AND OUTREACH

2023-2025	Undergraduate Research Symposium, Volunteer	Madison, WI
2020-2022	Campus Conversations Project, Student Facilitator	Raleigh, NC
2019	Neighbor2Neighbor, Enrichment Mentor	Raleigh, NC
2019	Foundación Communitaria del Baljío, Volunteer	Guanajuato, Mexico

PEER REVIEW

Psychometrika

PROFESSIONAL MEMBERSHIPS

American Statistical Association
Psychometric Society
Society for Research on Educational Effectiveness
American Educational Research Association