Graham **Buhrman**

Doctoral Student

Educational Sciences 1025 W Johnson Street, Madison, WI 53706

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Research Interests

As a doctoral student, I am interested in further developing my research interests and honing my data analysis skills. Currently, I am curious about the applications of nonparametric regression methods to causal inference in the social and behavioral sciences, and in the estimation of causal effects from clustered observational data.

Education

University of Wisconsin-Madison *Madison, WI*
PhD in Educational Psychology: Quantitative Methods *2022 - Present*

North Carolina State University *Raleigh, NC*
BS in Interdisciplinary Studies *2018 - 2022*
- Summa Cum Laude
- Phi Beta Kappa
- Minor in Statistics

Professional Experience

University of Wisconson-Madison *Madison, WI*
Center for Teaching Learning and Mentoring, Evaluation Specialist *Jan 2023 - Present*
- Supervised by Brian McNurlen

University of Wisconson-Madison *Madison, WI*
Wisconsin Center for Educational Research, Research Assistant *Sep 2022 - Present*
- Advised by Dr. Jee-Seon Kim

North Carolina State University *Raleigh, NC*
Provost's Professional Experience, PEP Scholar *Aug 2021 - May 2022*
- Advised by Dr. Vanessa Volpe

North Carolina State University *Raleigh, NC*
The Hope Lab, Research Assistant *Jun 2021 - Aug 2021*
- Advised by Dr. Elan Hope

North Carolina State University *Raleigh, NC*
University Honors and Scholars Program, Fellow *Aug 2019 - Nov 2020*
- Advised by Dr. Scott O'Leary and Anne Auten

Research Experience

Education Development Center *Madison, WI*
Mission US Efficacy Trial, Methodologist *Sep 2023 - Present*
- Worked with Dr. Joy Kennedy and interdisciplinary team

University of Wisconsin - Madison *Madison, WI*
RISE Iowa, Data Analyst *Aug 2022 - Present*
- Worked with Dr. Jee-Seon Kim and Victor Feagins
- Analyzed and summarized survey data for addiction treatment training intervention

North Carolina State University *Raleigh, NC*
Honors Capstone, Primary Investigator *Jan 2021 - May 2022*
- Worked with Dr. Vanessa Volpe
- Developed IRB protocol
- Constructed survey and eligibility screeners
- Collected, analyzed, and reported findings from data

North Carolina State University
Raleigh, NC

Black Health Lab, Senior Research Assistant
Jan 2020 - May 2022

- Worked with Dr. Vanessa Volpe
- Trained junior research assistants
- Collected data from human subjects experimentation
- Contributed to and proposed scholarly articles

North Carolina State Univeristy
Raleigh, NC

Sengupta Lab, Research Assistant
Jan 2021 - Aug 2021

- Worked with Dr. Srijan Sengupta
- Collaborated with clinic and corporate stakeholders
- Constructed a multi-classification model for radiation oncology treatment errors
- Contributed to manuscript of process and findings

University of North Carolina at Chapel Hill
Chapel Hill, NC

Carolina Institute for Developmental Disability, Psychology Intern
May 2019 - Jun 2019

- Worked with Dr. Jean Mankowski
- Observed patients and practicioners in clinical settings
- Coded and prepared results from psychometric evaluations
- Worked with a team of clinicians to diagnose and prepare treatment plans for patients

Manuscripts

PUBLICATIONS

1. 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`

2. 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`

3. 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`

FORTHCOMING

1. Buhrman, G. W., Liao, X., & Kim, J.-S. Exploring conceptual differences between nonparametric estimators of treatment heterogeneity in the context of clustered data. In M. Wiberg, J.-S. Kim, H. Hwang, H. Wu, & T. Sweet (Eds.), *Quantitative psychology: The 88th annual meeting of the psychometric society, college park, maryland, 2023*. Springer Nature Switzerland.

Poster Presentations

Interdisciplinary Studies Senior Presentations
Raleigh, NC

Stress from Hateful Anti-Black Twitter Content and the Mental Health of Black Young Adult Twitter Users, the Role of Online Social Support
May 2022

International Meeting of the Psychometric Society
College Park, MD

Exploring conceptual differences between nonparametric estimators of treatment heterogeneity in the context of clustered data
July 2023

Awards and Achievements

University of Wisconsin - Madison

Interdisciplinary Training Program in Education Sciences, Fellow
Sep 2022 - Present

- Granted to doctoral students pursuing research in education with a focus on policy translation and causal inference
- Amount: $34,000 annual stipend and $2,000 annual travel funds

North Carolina State University Honors and Scholars Program

Richard L. Blanton Outstanding Capstone Award
2022

- Granted to graduating undergraduates in the Honors and Scholars Program whose Honors Capstones are deemed exemplary
- Amount: $250

North Carolina State University

Caldwell Fellowship   *2019 - 2022*

- Granted to undergraduates displaying an interest in service-learning and self-growth
- Amount: $7,500 annually for tuition and experiential learning

North Carolina State University Honors and Scholars Program

Summer Travel/Research Award   *2021*

- Granted for Honors Capstone research
- Amount: $1,000

North Carolina State University Office of Undergraduate Research

Summer Research Award   *2021*

- Granted for Honors Capstone research
- Amount: $2,000

North Carolina State University

James F. Kelly Scholarship   *2019 - 2020*

- Granted to undergraduate students pursuing dual degrees in engineering and humanities and social sciences
- Amount: $350

Relevant Skills

Programming: Python, R, SAS, HTML/CSS
Data Analysis: Processing/Cleaning, Visualization, Modelling, Inference, Communication