# Kenneth J. Nieser, Ph.D.

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#### **Current Positions**

2023-present	Postdoctoral	Fellow I	Big-Data Sc	cientist Training	Enhancement
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Program

VA HSR&D, Center for Innovation to Implementation (Ci2i),

VA Palo Alto Health Care System, Palo Alto, CA

2023-present Postdoctoral Fellow, Stanford-Surgery Policy Improvement and

Education Center (S-SPIRE),

Stanford School of Medicine, Stanford, CA

#### Education

2018-2023	Ph.D. Epidemiology, Minor in Statistics University of Wisconsin-Madison School of Medicine and Public Health
2009-2013	B.A. Physics and Mathematics, High Honors Swarthmore College

### **Professional Experience**

2020-2023	Research Assistant, University of Wisconsin-Madison, Madison, WI
2019-2020	Project Assistant, University of Wisconsin-Madison, Madison, WI
2017-2018	Senior Analyst, Healthgrades, Madison, WI
2015-2017	Market Analyst, Healthgrades, Madison, WI
2014-2015	Healthcare Data Analyst for Wisconsin Medicaid, HP Enterprise
	Services, Madison, WI
2013-2014	Technical Services Analyst, Epic, Verona, WI

#### **Peer-reviewed Publications**

\*denotes joint first authors

1. Green, R. K.\*, **Nieser, K. J.**\*, Jacobsohn, G. C., Cochran, A. L., Caprio, T. V., Cushman, J. T., Kind, A. J., Lohmeier, M., Shah, M. N. (2023). Differential Effects of an Emergency Department-to-Home Care Transitions Intervention in an Older Adult

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- Population: A Latent Class Analysis. Medical Care, 61(6), 400-408. https://doi.org/10.1097/MLR.000000000001848
- Nieser, K. J., Stowe, Z. N., Newport, J., Coker J. L., Cochran, A. L. (2023). Detection of differential depressive symptom patterns in a cohort of perinatal women: an exploratory factor analysis using a robust statistics approach. eClinicalMedicine, 57, 101830. https://doi.org/10.1016/j.eclinm.2023.101830
- 3. **Nieser, K. J.**, Cochran, A. L. (2021). Addressing heterogeneous populations in latent variable settings through robust estimation. *Psychological Methods*. Advance online publication. *https://doi.org/10.1037/met0000413*
- Cochran, A. L., Nieser, K. J., Forger, D. B., Zöllner, S., & McInnis, M. G. (2020). Gene-set Enrichment with Mathematical Biology (GEMB). *GigaScience*, 9(10), giaa091. https://doi.org/10.1093/gigascience/giaa091

Liquid crystals (research done as an undergraduate)

- Collings, P. J., Goldstein, J. N., Hamilton, E. J., Mercado, B. R., Nieser, K. J., & Regan, M. H. (2015). The nature of the assembly process in chromonic liquid crystals. *Liquid Crystals Reviews*, 3(1), 1-27. https://doi.org/10.1080/21680396.2015.1025305
- Mercado, B. R., Nieser, K. J., & Collings, P. J. (2014). Cooperativity of the assembly process in a low concentration chromonic liquid crystal. *The Journal of Physical Chemistry. B*, 118(46), 13312–13320. https://doi.org/10.1021/jp510025j

# **Works in Progress**

1. **Nieser, K. J.**, Cochran, A. L., Quantifying and reducing inequity in average treatment effect estimation.

#### **Awards**

2020	Rankin/Skatrud Travel Award
2019	Biology and Medicine through Mathematics (BAMM!) Travel Award
2019	Student Research Grants Competition – Conference Presentation Funds
2018-19	New Graduate Student Fellowship

### **Conference Presentations and Posters**

1. Average Treatment Effects in Synthetic Samples with More Equitable Representation. Society for Epidemiologic Research Annual Meeting 2022, Chicago,

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IL (poster).

2. PHS Antiracism Initiative: Research Methods Toolkit. University of Wisconsin-Madison Department of Population Health Sciences Monday Seminar. April 25, 2022 (virtual talk). With Marina Jenkins, Emma Svenson, Zoe Walts, and KJ Hansmann.

- 3. Optimizing for whom? The role of robustness in equitable algorithms. 2021 Machine Learning Day, Arizona State University (virtual talk).
- 4. Detecting Inequity in the Analysis of Mental Health. 2021 Data Science Research Bazaar: *Data Science for the Social Good*, University of Wisconsin-Madison (virtual lightning talk).
- 5. Bias Analysis of Depression Rate Comparisons between Racial/Ethnic Groups. Society for Epidemiologic Research Annual Meeting 2020 (virtual poster).
- 6. Addressing Heterogeneity in Mental Illnesses through Robust Estimation. Population Health Sciences Annual Poster Session 2020, University of Wisconsin-Madison (poster).
- 7. Robust estimation for factor loadings with application to postpartum depression. Biology and Medicine through Mathematics (BAMM!) 2019, Virginia Commonwealth University (poster).
- 8. Kinetics of Assembly and Dis-assembly of Structures Forming a Chromonic Liquid Crystal at Low Concentrations. American Physical Society March Meeting 2013, Baltimore, MD (talk).

## **Teaching**

Teaching Associate, Swarthmore College

Spring 2013 General Physics II

Spring 2012 General Physics II with Biomedical Applications

Fall 2011 General Physics I

Fall 2011-12 Spacetime, Quanta & Cosmology

Tutor, Swarthmore College

Spring 2013 General Physics II

Spring 2012 General Physics II with Biomedical Applications

Fall 2011-12 General Physics I

### Service

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# Grading

PHS 798: Epidemiologic Methods, 2020

PHS 651: Advanced Regression Methods for Population Health, 2020 MATH 888: Topics in Mathematical Data Science (Causal inference), 2022

Conference abstract review SER Annual Meeting, 2022

Journal article peer review

Journal of Medical Internet Research

### Grant review

University of Wisconsin Institute for Clinical and Translational Research, 2023