Kenneth J. Nieser

Email: <u>nieser@wisc.edu</u>
Website: <u>knieser.github.io</u>

Research Interests

Social and psychiatric epidemiology, health disparities, epidemiologic methods

Education

2018-2023 Ph.D. Epidemiology (Minor: Statistics) (expected) *University of Wisconsin-Madison*

Advisor: Amy Cochran, PhD

2009-2013 B.A. Physics and Mathematics (graduated with High Honors)

Swarthmore College

Awards and Fellowships

2020 Rankin/Skatrud Travel Award

2019 Biology and Medicine through Mathematics (BAMM!) Travel Award
2019 Student Research Grants Competition – Conference Presentation Funds

2018-2019 New Graduate Student Fellowship

Research Positions

2020-present Research Assistant, University of Wisconsin-Madison

(PI: Amy Cochran).

2019-2020 Project Assistant, University of Wisconsin-Madison

UW Madison Center for Human Genomics and Precision Medicine Seed Grant

(PI: Amy Cochran). Gene-set enrichment with mathematical biology.

Publications

Epidemiology/Population Health

 Cochran, A. L., <u>Nieser, K. J.</u>, 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

Chemical Physics

- Collings, P. J., Goldstein, J. N., Hamilton, E. J., Mercado, B. R., <u>Nieser, K. J.</u>, & 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
- 2. Mercado, B. R., <u>Nieser, K. J.</u>, & 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

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Presentations and Posters

1. Bias Analysis of Depression Rate Comparisons between Racial/Ethnic Groups. Society for Epidemiologic Research, Annual Meeting 2020 (poster).

- 2. Addressing Heterogeneity in Mental Illnesses through Robust Estimation. Population Health Sciences Annual Poster Session 2020 (poster).
- 3. Robust estimation for factor loadings with application to postpartum depression. BAMM! 2019 (poster).
- 4. Kinetics of Assembly and Dis-assembly of Structures Forming a Chromonic Liquid Crystal at Low Concentrations. APS March Meeting 2013 (oral).

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

Professional Employment

2017-2018 Senior Analyst, *Healthgrades*

Madison, WI

Supported internal teams as a subject-matter expert on data analysis and campaign research; assisted in training of new analysts.

2015-2017 Market Analyst, Healthgrades

Madison, WI

Analyzed electronic medical record data and third-party demographic data to inform marketing strategy and planning for hospital clients.

2014-2015 Healthcare Data Analyst, HP Enterprise Services

Madison, WI

Analyzed Wisconsin Medicaid claims data and managed care enrollment data, compiled reports for clients in Wisconsin Department of Health Services.

2013-2014 Technical Services Analyst, *Epic*

Verona, WI

Supported multiple hospital organizations in optimizing and troubleshooting Epic software—specifically Willow, the inpatient pharmacy application.