Kenneth J. Nieser

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EDUCATION

2018-2023 **PhD, Epidemiology,** University of Wisconsin-Madison

(expected) Ph.D. Minor: Statistics

Advisor: Amy Cochran, PhD

2009-2013 **BA, Physics and Mathematics,** Swarthmore College

Graduated with High Honors

RESEARCH INTERESTS

Epidemiologic methods, social and psychiatric epidemiology, health disparities

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. 2019-2020.

AWARDS AND FELLOWSHIPS

2020 Rankin/Skatrud Travel Award

2019 NSF Travel Award to attend Biology and Medicine through Mathematics

(BAMM!)

2019 Student Research Grants Competition – Conference Presentation Funds

2018-2019 New Graduate Student Fellowship

PEER-REVIEWED PUBLICATIONS

Epidemiology/Population Health

 Cochran, A. L., Nieser, K. J., Forger, D. B., Zöllner, S., McInnis, M. G. (2020). Gene-set Enrichment with Mathematical Biology (GEMB), GigaScience, Volume 9, Issue 10, https://doi.org/10.1093/gigascience/giaa091.

Chemical Physics

- 1. Collings, P., Goldstein, J., Hamilton, E., Mercado, B., **Nieser, K.** & Reagan, M. (2015). The nature of the assembly process in chromonic liquid crystals. Liquid Crystal Reviews, 1-25.
- 2. Mercado, B., **Nieser, K.**, & Collings, P. (2014). Cooperativity of the Assembly Process in a Low Concentration Chromonic Liquid Crystal. The Journal of Physical Chemistry B, 13312-13320.

PRESENTATIONS AND POSTERS AT SCIENTIFIC MEETINGS

- 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!

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2019, Richmond, VA (poster).

4. Kinetics of Assembly and Dis-assembly of Structures Forming a Chromonic Liquid Crystal at Low Concentrations, APS March Meeting 2013, Baltimore, MD (oral).

TEACHING EXPERIENCE

Swarthmore College

Teaching Associate

General Physics II (Spring 2013)

General Physics II with Biomedical Applications (Spring 2012)

General Physics I (Fall 2011)

Spacetime, Quanta & Cosmology (Fall 2011 and Fall 2012)

Tutor

General Physics II (Spring 2013)

General Physics II with Biomedical Applications (Spring 2012)

General Physics I (Fall 2011 and Fall 2012)

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