Kenneth J. Nieser

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EDUCATION

2018-2023 (expected) **PhD, Epidemiology,** University of Wisconsin-Madison
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

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

Submitted/In Revision

1. Cochran, A., **Nieser, K.**, Forger, D., Zöllner, S., McInnis, M. (2020). Gene-Set Enrichment with Mathematical Biology. bioRxiv. doi: https://doi.org/10.1101/554212

Chemical Physics

2. 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.

3. 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. Robust estimation for factor loadings with application to postpartum depression, BAMM! 2019, Richmond, VA (poster).

2. 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)

Grader
- Thermodynamics/Optics (Spring 2013)
- Mathematical Statistics I (Fall 2012)
- Introductory Mechanics (Spring 2011)
- Spacetime, Quanta & Cosmology (Fall 2010)
- Linear Algebra (Fall 2010)

PROFESSIONAL NON-ACADEMIC 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