Safiya Sirota

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Education

Columbia University, PhD, Biostatistics (4.0)   Sep 2021 – exp. June 2026
- **Relevant coursework:** Asymptotic Statistics, Statistical Learning & Data Mining, Topics in Advanced Statistical Computing, Theory of Statistical Inference, Graphical Models for Complex Health Data, Social Epidemiology, Probability, Data Science
- **Advisor:** Dr. Daniel Malinsky

Wellesley College, BA, Cum Laude, Mathematics & Psychology   Sep 2017 – Dec 2020
- **Relevant coursework:** Elements of Analysis, Computer Programming & Problem Solving, Combinatorics & Graph Theory, Data Structures, Applied Data Analysis & Statistical Inference, Databases with Web Interfaces, Fundamental Algorithms

Training

T32 Social Determinants of HIV, Sociomedical Sciences, Columbia University   Sep 2021 – present
- **PI:** Dr. Gina Wingood

Experience

Actuarial Intern, Milliman Inc., Windsor, CT   Jan 2021 – Jun 2021
Clinical Intern, The Walker School, Needham, MA   Jun 2019 – Aug 2019

Honors & Awards

Leadership in Mathematics Prize, Department of Mathematics, Wellesley College   received Jun 2021
Student Research Grant, Wellesley College, $750   received Oct 2020
Psi Chi Membership, The International Honor Society in Psychology   inducted Jan 2020

Academic Service

Member, Statistics in the Community (STATCOM), Columbia University   2024 - present
Organizing Committee Member, Computing Club, Columbia University   2021 - present
TA Training Workshop, Department of Biostatistics, Columbia University   2023 & 2024
Organizing Committee Member, Biostat Masters Symposium, Columbia University   2023 & 2024

Professional Organizations, Societies, and Service

Member, Society for Causal Inference (SCI)   2023 - present
Member, American Statistical Association (ASA)   2022 - present
Peer Reviewer, Maching Learning for Health Care Conference 2024   Spring 2024

Educational Contributions

Instructor, Intro to R for Data Science, BEST Program, Columbia University   Jun 2024 - Jul 2024
Teaching Assistant, Department of Biostatistics, Columbia University   Jan 2022 - present
- **Courses:**
  - **Graphical Models for Complex Health Data** (Fall 2023, Fall 2024) – Prof. Daniel Malinsky
  - **Biostatistical Methods II** (Spring 2023, Spring 2024) – Prof. Bin Cheng, Prof. Wenpin Hou
  - **Intro to R for Data Science** (Summer 2022) – Instructor: Dr. Soohyun Kim
  - **Health Data Science** (Spring 2022) – Instructor: Dr. Cale Basaraba

Teaching Assistant, Department of Computer Science, Wellesley College   Sep 2019 - Dec 2020

- **Courses:**
    - **Data Structures** (Fall 2020) – Prof. Takis Metaxas
    - **Computer Programming & Problem Solving** (Fall 2019, Spring 2020) – Prof. Sohie Lee

Teaching Assistant, Department of Psychology, Wellesley College   Jan 2020 - May 2020

- **Statistics for Psychology** (Spring 2020) – Prof. Jeremy Wilmer

Help Room Tutor, Department of Mathematics, Wellesley College   Sep 2018 - July 2020

- **Courses:** Calculus, Number Theory, Linear Algebra, Abstract Algebra, Combinatorics

Publications

- **Sirota, S**, Allen, NB, Barr, GH, Malinsky, DS (2024, in review). A health equity perspective on data-driven treatment decisions in cardiovascular care: risk assessments versus individualized treatment rules.
- Nesoff ED, Gutkind S, **Sirota S**, McKowen AL, Veldhuis CB (2021). Mental health and economic stressors associated with high-risk drinking and increased alcohol consumption early in the COVID-19 pandemic. Prev Med. 2021:106854. 10.1016/j.ypmed.2021.106854.

Presentations

Talks

- **Sirota, Safiya.** Antonio Lopez, Gaudalupe. "Intro to Latex". Columbia Biostatistics Computing Club. New York, NY. October 2024.
- **Sirota, Safiya.** "A health equity perspective on data-driven treatment decisions in cardiovascular care: risk assessments versus individualized treatment rules". Columbia Biostatistics Annual Research Symposium (CBARS). New York, NY. Sept 2023.
- **Sirota, Safiya.** Garcia-Franceschini, Gustavo. "Intro to Python". Columbia Biostatistics Computing Club. New York, NY. October 2023.

Posters

- **Sirota, Safiya.** "A health equity perspective on data-driven treatment decisions in cardiovascular care: risk assessments versus individualized treatment rules". American Causal Inference Conference (ACIC). Austin, TX. May 2023.