

Sining Leng

EDUCATION

Columbia University Mailman School of Public Health

September 2023-Expected 2025

Master of Public Health (MPH), Biostatistics, GPA: 3.78

New York, NY

Relevant Courses: Applied Regression, Statistical Computing with SAS, Strategic Issue of Healthcare Quality

Pennsylvania State University

August 2018-December 2021

Bachelor of Science in General Biology, GPA:3.87

State College, PA

RELEVANT EXPERIENCE

Valuable Insight LLC

September 2024 - Present

Analytics Fellow

Remote

- Acquired in-depth insights into Value-Based Care principles, understanding their significance in optimizing healthcare delivery and costs.
- Explored the intricate business model of Medicare Advantage, grasping key concepts that shape healthcare strategies.
- Demonstrated practical knowledge in high-risk patient cost management, recognizing its pivotal role in healthcare sustainability.
- Designed and implemented a Power BI dashboard to extract, transform, and visualize complex healthcare data effectively, supporting operational workflows and optimizing the management process for high-risk populations.

The Harry and Jeanette Weinberg Center for Elder Justice

May 2024-August 2024

Summer Public Health Intern

New York, NY

- Supported data collection, management, and completion of grant reporting requirements; worked on ongoing grant projects alongside researchers and the Weinberg team;
- Reviewed trends in elder justice literature and presented findings to the team;
- Contributed to the Weinberg Center's community outreach and engagement efforts, including public communication.

Shanghai United Cell Biotechnology Co.,Ltd.

March 2022-December 2022

Pharmaceutical Quality Inspector

Shanghai, China

- Used capillary electrophoresis electrochemiluminescence analyzer and high-performance liquid chromatography to monitor whether the protein impurities were within the specified range, to identify the effective protein contents, and to ensure the products fulfill the standard requirements.
- Performed experiments, provided professional reports, and used pharmaceutical analysis systems, including PA 800 plus and 32 Karat.

Breast Cancer Analytical Research

May 2021-January 2022

Research Assistant

State College, PA

- Analyzed data through MATLAB software (linear algebra and statistics), combining mathematics, modeling, and simulation to study breast cancer.
- Wrote programming drafts and edited basic computational language to conduct the statistics in the field of public health (identification of special risk groups, detection of disease threats, planning public health programs taking breast cancer as an example).
- Learned a variety of software tools, including Wolfram Mathematica, Photoshop, MATLAB, Excel, Prism, and SPSS; learned a data mining method within Mathematical Oncology.

Research & Reviews in BioSciences

Research Assistant

June 2020-August 2020

State College, PA

- Conducted a systematic review study on the topic of “Sex Determination in Plants,” and produced an informative video presentation for dissemination on the school website.
- Collaborated with fellow undergraduates to co-author a systematic review paper titled “Advancement and Commercialization of Transgenic Crops Using Genome Editing Technologies.” Contributed to the writing process, including drafting sections, making revisions, and organizing references.

Molecular and Cellular Biology Course

Teaching Assistant

August 2019-May 2020

Harrisburg, PA

- Assisted with professor for two semesters; supported course lectures, created summaries of materials, and graded assignments for a 40-student intermediate science course.
- Prepared and performed laboratory experiments, such as DNA extraction.

SKILLS

MATLAB, SQL, R, SAS, Photoshop, Mandarin Chinese