Sarah Wesolowski

Data Scientist, Department of Pathology and Laboratory Medicine, University of Pennsylvania

I'm a data scientist working to predict rare and underdiagnosed diseases using electronic health records. I have managed and advised a wide variety of data-driven projects in applied statistics. I am an expert in making predictions using statistics and machine learning, data analysis, and communication to technical and non-technical audiences.

✉ sarah.wesolowski@pennmedicine.upenn.edu   📍 Philadelphia, PA, US citizen   in linkedin.com/in/sarahcwesolowski

EDUCATION

PhD in Nuclear Physics
The Ohio State University

08/2012 - 08/2017

BS in Physics
Saint Vincent College

08/2008 - 05/2012

RELEVANT EXPERIENCE

Data Scientist
University of Pennsylvania

02/2022 - Present   *Philadelphia, PA, USA*

Achievements/Tasks

- Build rare-event classification models for under-diagnosed diseases using high-dimensional Electronic Health Record data.
- Manage multiple complex data science projects in Pathology and Laboratory Medicine for the Herman Lab.
- Managing and advising students, postdocs, and other employees in the lab.

Contact : Daniel Herman

Assistant Professor of Mathematics
Salisbury University

08/2017 - 01/2022   *Salisbury, MD, USA*

Achievements/Tasks

- Managed multiple collaborative projects from beginning to completion, including a parameter estimation framework for nuclear physics models and the development of a novel ML-based model for uncertainty estimates of systematically improvable predictions.
- Delivered and planned 10+ distinct courses in data science, statistics, computer science, and mathematics.
- Implemented and designed custom e-learning courses.
- Advised and managed collaborative data science projects between students and clients outside academia.

SKILLS

Data wrangling   Machine learning

Model validation   Bayesian statistics

Data visualization   Technical writing

Public speaking   Presentations

Project management   High attention to detail

Efficiently learning new skills   Teaching

Collaboration   Workplace communication

PUBLICATIONS AND WRITING

Go to https://sarahcwesolowski.github.io/pubs to explore my writing and published work.

PROGRAMMING LANGUAGES

Python   C++   R   Version control (git)

Matlab   Mathematica   Linux