

Daniel DeWitz

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New York, NY 10013

RECENT PROJECTS

Mapping Iconic NYC Sandwiches with AI: scraping, geocoding, and sharing a map of the NYT Top 57 Sandwiches. [Open Data Week NYC Workshop](#) | [Sandwich Map](#).

EDUCATION

M.S. Economic Theory and Policy, Levy Economics Institute of Bard College
Annandale-on-Hudson, NY. Graduated: May 2024

- Thesis Research: *In Transit: Exploring Interactive Effects of Public Transportation on the Gender Leisure Gap*

B.S. Behavioral Neuroscience, Viterbo University
La Crosse, WI. Graduated: May 2012

SKILLS

- Python (10 years)
- SQL (10 years)
- R (5 years)
- HTML & CSS (3 years)

EMPLOYMENT HISTORY

Data Scientist

Advantage Technical | Indeed.com (Remote)

Feb 2025 – Current

Full-time: 40 hours per week

- Developing AI text classification methodologies to identify policy violations in Indeed.com content as part of a short-term contract position.

Data Scientist

Pandemic Response Accountability Committee (Remote)

June 2023 – Jan 2025

Full-time: 40 hours per week

- I led the development of a Python-based data science environment, writing briefs to identify key blockers and propose strategic recommendations. This modernization initiative enabled the full automation of standard reporting.
- Developed a novel algorithm to detect fraudulent claims by identifying copied-and-pasted patient information with minor modifications to the patient's name or birthday. The algorithm targeted fraudulent claims submitted to the Provider Relief Fund (PRF).
- Created a risk-scoring model that integrated text-based audit results, payment data, and lists of known bad actors.
- Designed a statistical matching approach to identify Medicare beneficiaries with billing patterns similar to those whose Medicare IDs were stolen.
- Presented findings and exploratory analyses, led tutorials, developed best practices, and collaboratively refined analytical questions to enhance research quality and impact.

Data Engineer

Symphony Corp. | Apixio (Remote)

Feb 2022 - May 2022

Part-time: 15 hours per week

- Developed a Python framework to parse raw healthcare claims into a structured schema as part of a short-term contract.

Web Developer

AmeriCorps Vista, Minneapolis, MN (Remote)

Sep 2020 - Aug 2021

Full-time: 40 hours per week

- Led the development and implementation of a comprehensive survey of opioid treatment facilities in Minnesota during my AmeriCorps project. After collecting the data, I analyzed the results and created an interactive map and dashboard.

Data Analyst

WPS Health Solutions, Madison, WI

Jun 2017 - Aug 2020

Full-time: 40 hours per week

- Engineered a data pipeline using SQL and Python to compare the utilization of every Medicare procedure code against state and national averages, identifying outlier providers and generating leads for education and corrective action.
- Served as a data coach and mentor for new employees.

- Conducted network analyses using SQL and Python, as well as machine-learning techniques, to uncover suspicious provider relationships.
- Developed a custom statistical model to identify trending Medicare procedure codes.
- Collaborated with stakeholders to scope business requirements, negotiate deadlines, present results, and receive feedback.

Research Assistant

Center for Healthy Minds, Madison, WI

Mar 2016 - Jun 2017

Full-time: 40 hours per week

- Developed data pipelines using Python and Bash to automate data processing and the detection of problematic data.
- Wrote Python scripts to automate the scheduling of study participants.
- Trained and supervised students who collected data for a National Institutes of Health (NIH) study evaluating the biological and psychological effects of meditation.

River Ranger

Montana Conservation Corps, Fort Benton, MT

May 2015 - Aug 2015

Full-time: 40 hours per week

- Led interpretive lessons and science labs for elementary and middle school students.
- Guided trail crews and performed campsite maintenance

High School Science Teacher

Spring ISD, Houston, Texas

Sep 2013 - Aug 2014

Full-time: 40 hours per week

- Taught high school physics and chemistry.
- Developed curriculum as part of the curriculum development team.
- Coached the Science Olympiad team.

Research Fellow

Georgia Institute of Technology, Atlanta, GA

May 2012 - Aug 2012

Full-time: 40 hours per week

- Conducted a preliminary cognitive neuroscience research study, from developing the initial proposal to analyzing the data and presenting the results.
- Recruited participants and conducted eye-tracking experiments.
- Wrote Python code to process and analyze eye-tracking data.