

Gwenyth Portillo Wightman

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EDUCATION

Johns Hopkins University

PhD, Computer Science

May 2026

Baltimore, MD

- Research focus in Natural Language Processing and Human-Computer Interaction. Advised by Dr. Mark Dredze.
- Supported by the Whiting School of Engineering Dean's Fellowship.

University of Southern California

Bachelor's, Cognitive Science

December 2019

Los Angeles, CA

- Summa cum laude; 3.95/4.0 GPA
- Minors in Computer Science and Italian
- Studied abroad in Milan, Italy in Fall 2019 (IES Abroad/Università Cattolica del Sacro Cuore)

WORK EXPERIENCE

Johns Hopkins University

Research Assistant

August 2021 - Present

Baltimore, MD

- Performed an exploratory analysis of social media data using natural language processing techniques to identify novel reports of adverse reactions to marijuana products. Resulted in a paper submitted to the *Journal of the American Medical Association*. Research funded by the Federal Drug Administration.
- Paper: "Strength in Numbers: Estimating Confidence of Large Language Models by Prompt Agreement". Found that the confidence scores of large language models are better calibrated when we consider the models' responses to multiple prompts. Under review for ACL 2023.

University of Southern California

Research Assistant

July 2017 - August 2021

Los Angeles, CA

- Preprocessed text data and computed statistical analysis of annotations for research papers published in *Social Psychological and Personality Science* and *Nature Communications*. Full list of publications at gwenythjpw.com.
- Coordinated a group of 15 undergraduate research assistants in completing annotation of social media data.
- Developed a web application using Node.js. See 'YourMorals.org Website' under the 'Projects' section.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, R, Java (familiar), Javascript (familiar)
- **Web Frameworks:** Bootstrap (familiar), Node.js (familiar)
- **Databases:** MySQL
- **Tools:** Git, Pandas, PyTorch, Figma

PROJECTS

Webpage: Social Determinants of Health Across Maryland

Fall 2021

- Webpage featuring interactive charts that reflect statistics about social determinants of health in Maryland, developed as a Human-Computer Interaction course project.
- Technologies: Javascript, amCharts.

Research Project: Predicting the county-level prevalence of Chlamydia in the United States

Spring 2019

- A spatiotemporal predictive modeling task and optimization problem to predict rates of illness and improve access to treatment services, developed as an AI for Social Good course project.
- Paper presented at the 2019 IEEE MIT Undergraduate Research Technology Conference in Cambridge, MA.
- Technologies: Python, Scikit-learn, Numpy, Matplotlib.

Website: YourMorals.org

May 2021 - August 2021

- Website developer for YourMorals.org, a website for distributing psychology surveys, while working at the University of Southern California. Contributions: login credential verification, account creation, password reset, survey formatting, processing survey results to display statistics, and QA testing.
- Technologies: Node.js, MongoDB.