

Education

Harvard University

Master of Science, Data Science

Present

Washington University in St Louis

Bachelor of Arts, Cognitive Neuroscience

Minor: Anthropology

Phi Beta Kappa Honors Society

2021

Experience

Computational Cognitive Neuroscience Lab at Harvard – Cambridge, MA

Sept 2024 to Present

Research Assistant

- Contribute to research on intuitive physics by developing neural network models to replicate human reasoning in physical simulations.
- Automate the generation of physics scenes to streamline experimentation and data collection.
- Experiment with neural network architectures and evaluated model performance against human intuition.

The Syndemics Lab at Boston Medical Center – Boston, MA

July 2022 to May 2024

Research Data Analyst

- Led several data analysis projects involving Monte-Carlo simulation modeling to predict population-level health and economic outcomes of Medications for Opioid Use Disorder (MOUD) prescription policies in new settings and CDC equity goals for hepatitis C elimination.
- Used R for data compilation, cleaning, and analyzing estimates of cost-effectiveness, population-level impacts, and measures of racial/ethnic disparities in incidence and mortality of hepatitis C cases and of MOUD prescribing policies.
- Managed project communication with collaborators, expert consultants, and stakeholders to refine statistical analysis and validate results are representative of real-world scenarios.
- Conducted literature reviews, data scraping, and data manipulation to update project-specific model parameters.

The Syndemics Lab at Boston Medical Center – Boston, MA

March 2021 to June 2022

Research Program Specialist

- Led website development for the Syndemics Lab, which researches the synergistic epidemics (syndemics) of HIV, hepatitis C, and substance use disorders. Managed content creation for website, delegating tasks to team members, setting and maintaining timelines, and updated website content.
- Designed and oversaw social media accounts, produced content to increase awareness of the Lab's work.
- Organized and coordinated activities for the Opioid Modeling Consortium conference in collaborating with colleagues at Weill Cornell Medical College including inviting and managing speakers, executing meeting logistics, coordinating stakeholder meetings, and successfully meeting all deadlines.
- Collaborated and tracked writing and submission of grants and manuscripts.

St. Louis Regional Planned Parenthood – St. Louis, MO

January 2021 to April 2021

Community Engagement Intern

- Engaged in phone bank campaigns, mobilizing Missouri Planned Parenthood supporters to advocate for Medicaid expansion to safeguard access to affordable healthcare.
- Collaborated in crafting social media posts to spotlight Black-owned businesses in the St. Louis area and spread awareness of Planned Parenthood's services.
- Assisted in preparing community engagement materials and liaising with local St. Louis businesses and organizations to optimize Planned Parenthood's outreach, with a focus on educating diverse populations on sexual and reproductive health.

Johns Hopkins Medicine – Baltimore, MD

May 2020 to August 2020

Public Health Research Extern

- Contributed to two reports and one published manuscript in *The Journal of Medical Ethics* to increase awareness of antibiotic resistance and hospital billing practices.
- Gathered and organized data through literature reviews and web data scraping for grants and reports about hospital billing practices and improving opioid prescribing policies in hospitals.

Behavioral Research and Imaging Neurogenetics Lab, WUSTL – St. Louis, MO

November 2018 to May 2020

Research Assistant

- Applied scientific research methods as part of data collection and analysis for two mental health studies.
- Followed protocols to run EEG tests, instruct research participants, run cortisol assays, and document and analyze results.

Skills

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| • Programming Languages: R, Python | • Literature Review and Synthesis |
| • Data Collection and Analysis | • Written and Oral Communication |
| • Project Management | • Teamwork and Collaboration |

Publications

Hashim F, Hennayake S, Walsh CM, Dun C, Paturzo JG, Das IG, **Stewart EA**, Vervoort D, Teinor JA, Schochet MA, Keslar A, Bai G, Makary M. Characteristics of US hospitals using extraordinary collections actions against patients for unpaid medical bills: a cross-sectional study. *BMJ Open*. 2022 Jul 12;12(7):e060501. doi: 10.1136/bmjopen-2021-060501. PMID: 35820764; PMCID: PMC9274508.

Chatterjee A, **Stewart EA**, Assoumou SA, Chrysanthopoulou SA, Zwick H, Harris RA, O'Dea R, Schackman BR, White LF, Linas BP. Health and Economic Outcomes of Offering Buprenorphine in Homeless Shelters in Massachusetts. *JAMA Netw Open*. 2024 Oct 1;7(10):e2437233. doi: 10.1001/jamanetworkopen.2024.37233. PMID: 39412807.