

VICTORIA MCCRAY

Applied Research Scientist

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Specializing in statistical modeling, multimodal analysis, and experimental design to translate complex behavioral, biomedical, and product data into evidence-based decisions.

5+ years designing and running studies across neuroimaging, clinical, and product research, turning multimodal data into findings that shaped clinical publications and product roadmaps.

MS, Bioinformatics | Northeastern University • BS, Psychology (Honors), Minor: Data Science | Northeastern University May 2026 / May 2022

Technical Skills: Python, R, SQL, statistical modeling, NLP, fMRI/CONN toolbox, scikit-learn, experimental design, A/B testing, Plotly, ggplot2

AI-Augmented Workflow: Claude Code, ChatGPT, GitHub Copilot + Actions CI for faster analysis and documentation drafting

PROFESSIONAL EXPERIENCE

Public Health AI & Data Scientist II | Guidehouse (Supporting the CDC)

Feb 2024 – May 2026 | Atlanta, GA

- Partnered with neuroepidemiologists to produce publication-quality visualizations and statistical validation for national Parkinson's and MS prevalence studies published in peer-reviewed journals.
- Merged an OpenAI API-generated program-summary dataset with a PM-built federal-priorities dataset; designed the prompts and extraction methodology to derive a new alignment dataset assessing program-priority alignment, adopted division-wide at NCIPC for portfolio planning.
- One of two Python experts on the team; led migration of a legacy SAS overdose surveillance pipeline (11M+ records, 54 jurisdictions) to Databricks, designing the schema from scratch. Authored the SOP for the pipeline without prior QA guidance, adopted as the team's source of truth.
- Built and curated custom Copilot Studio agents connected to Power Platform for literature synthesis and data analysis.

Market Research Analyst | RaceTrac

Jul 2023 – Nov 2023 | Atlanta, GA

- Built Power BI dashboards (SQL) analyzing customer segmentation and key drivers of product purchases, partnering with senior market research, media, and analytics analysts on the marketing team; used by leadership for KPI tracking.

UX Researcher / Data Analyst | Autodesk

Feb 2022 – Apr 2023 | Boston, MA

- Led statistical and NLP analysis of 1M+ survey responses to surface user segments and adoption trends, working alongside a principal analyst, principal researcher, and senior product managers; shaped the product roadmap.
- Led a diagnostic analysis of Inventor's loyalty metrics decline: combined NLP topic modeling and thematic coding of detractor feedback with quantitative segmentation by product release, entitlement, region, and usage, benchmarked across quarterly, six-month, and annual cadences. Built Looker and Qualtrics dashboards to track and share the most prevalent drivers.
- Applied statistical modeling (regression, clustering) to personalize the user experience across Autodesk design products.

UX Researcher | Insulet Corporation

Jan 2021 – Jun 2021 | Billerica, MA

- Designed and ran the full formative and summative usability study lifecycle, including A/B testing, for a wearable insulin delivery device and companion app.
- Co-designed a usability metrics framework (ease of use, satisfaction, success rate, time on task) with the UX Research team to evaluate Omnipod 5 among people with Type 1 and Type 2 diabetes.

RESEARCH EXPERIENCE

Research Fellow | Learning & Brain Development Lab, Northeastern University

Sep 2021 – May 2022 | Boston, MA

- Conducted behavioral and network analysis of brain connectivity in clinical datasets using Python, R, and CONN toolbox; performed hypothesis testing, ANOVA, and regression to investigate cognitive and neurological development in psychiatric populations.

SERVICE & LEADERSHIP

Ethics Reviewer, NeurIPS

- Provide feedback to the program committee regarding risks and harms of the work in line with the NeurIPS Code of Ethics

Founder & Lead Facilitator, Open Science Neuro Hackathon

- Founded and led an international biomedical imaging and data science training program for graduate students and faculty in Malawi.
- Collaborated with leading research scientists at leading virtual reality, non-profit, and university labs to deliver a two-week intensive short-course attended by 30 early career scientists

Director of Finance, Black In Neuro

- Directed financial and operations systems for a nonprofit serving members across 40+ countries.
- Designed the impact evaluation methodology and led the analysis for validating and evaluating programs, which led to a multi-organization collaboration and funded grant to adopt the approach across additional non-profit organizations for equity in STEM

PUBLICATIONS & PRESENTATIONS

Makwakwa, D., McCray, V.P. (2026). Community-Based Digital Screener for Early Dementia Detection in Malawi. Alzheimer's Association International Conference, London, UK.

McCray, V. Barriers to Patient Agency in Health Insurer Privacy Policies: A Document Analysis of Readability, Data Sharing, and Consent Mechanics. SocArXiv, 21 July 2026.

McCray, V.P., Dukes, A., Pittman, Nikea. Community-Driven Programming to Strengthen STEM Conference Experiences: A First Look at BlackInNeuro and BlackInMicro Event Outcomes. Oxford Open Neuro (in press, 2026).