

# Jamelle Watson-Daniels

RESUME — MARCH 2024

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**EDUCATION** **Harvard University** EXPECTED 2024  
PhD in Applied Mathematics  
Advisors: David C. Parkes (Harvard), Berk Ustun (UCSD)  
**Brown University** 2011 – 2016  
BS in Physics, BA in Africana Studies  
Research Areas: Applied Machine Learning, Algorithmic Fairness, Reliability, Alignment & Safety

**SELECT EXPERIENCE** **Harvard University.** Cambridge, MA SEPT 2018 – MAY 2024  
*PhD Researcher*  
Conduct independent research in applied Machine Learning. Initiate, design and execute novel computational experiments. Spearhead collaboration between 2 principal investigators. Present research in local meetings and international scientific conferences. Manage paper submission process (write, edit, redraft). Mentor >50 students + Equity, Diversity & Inclusion Chair for >400 students.

**Google.** Atlanta, GA SUMMER 2023  
*PhD Research Intern*  
Lead research project drawing connections between state of the art methods and product issues. Distill and communicate research concepts to engineering team. Communicate results in the context of intended business goals. Execute independent research for first author publication.

**Microsoft Research.** Remote SUMMER 2022  
*PhD Research Intern*  
Lead research project on a team of three Principal Researchers in the Fairness, Accountability, Transparency and Ethics (FATE) group. Design and program original experiments for a first author publication. Develop a mathematical and computational framework for evaluating the algorithmic fairness implications of flexibility in target variable choice. The framework supports early-intervention fairness testing during problem formulation long before model deployment.

**Data for Black Lives.** Cambridge, MA FEB 2020 – FEB 2022  
*Director of Research*  
Lead the development and management of research initiatives with the leadership team, partner organizations and community members. Hire and manage associate level staff. Represent the organization on non-profit boards and consult large organizations on socially responsible Ai practices.

**Weinberg Medical Physics.** Rockville, MD 2017 – 2018  
*Physicist*  
Connect fundamentals of low-field MRI to support building a prototype of a low-cost portable imaging option. Developed a Python software suite to enable hardware to function as a spectrometer.

COMPUTER SCIENCE (SEE CV FOR FULL LIST)

- SELECT PAPERS**
1. [Mysterious Projections: Multimodal LLMs Gain Domain-Specific Visual Capabilities \(under review\)](#)
  2. [Predictive Churn with the Set of Good Models \(under review\)](#)
  3. [Algorithmic Fairness and Color-blind Racism: Navigating the Intersection \(under review\)](#)
  4. [Multi-Target Multiplicity: Flexibility and Fairness in Target Specification \(FAccT\)](#)
  5. [Predictive Multiplicity in Probabilistic Classification \(AAAI\)](#)
  6. [An Analysis of Emotions and the Prominence of Positivity in #BlackLivesMatter Tweets \(PNAS\)](#)

**MORE INFO** **Conference Reviewer:** AAAI, NeurIPS, ICML, FAccT, ICLR  
**Select Awards:** NSF Graduate Research Fellowship, Ford Foundation Predoctoral Fellowship