

## RESEARCH SCIENTIST / APPLIED SCIENTIST

Computational Methods • NLP • Behavioral Experiments • Statistics

PhD researcher specializing in large-scale natural language processing, web experiments, and survey design to inform real-world decisions. Experienced in translating complex behavioral and text data into actionable insights for cross-functional stakeholders. Seeking applied roles with long-term growth.

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## CORE SKILLS

Generative AI & LLMs (Transformers / Hugging Face / Proprietary APIs), Python / R / SQL,  
Data Visualization, Statistical Modeling, Measurement & Construct Validation,  
Experimental Design & A/B Testing, Interdisciplinary Collaboration, Survey Research

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## PROFESSIONAL EXPERIENCE

University of Pennsylvania – PhD Candidate, Computational Social Science Lab

*Philadelphia, PA | Aug 2022 – Present (ABD March 2026)*

- Built reproducible ML pipelines in Python and R for large-scale data collection and analysis.
- Fine-tuned transformer models to quantify sentiment, framing, and thematic patterns in unstructured text across hundreds of thousands of documents, producing expert-validated measures.
- Led end-to-end quantitative research projects combining experiments, surveys, and NLP to evaluate how messaging, framing, and design influence attitudes and behavioral intentions at scale.
- Applied regression, causal inference, and other econometric techniques to draw insights from data.
- Synthesized complex findings into concise recommendations for cross-functional teams.
- Presented results to academic and applied audiences at conferences and in peer-reviewed publications, with a focus on solution-oriented, real-world decision making.

Indianapolis Math & Science Academy North – Lead Mathematics Teacher

*Indianapolis, IN | Jul 2020 – Jun 2022*

- Led classroom operations: managing curriculum, tracking performance, and iteratively updating class.
- Applied data-driven approaches to identify learning gaps and adapt instructional strategies.
- Recognized with highest professional evaluation: “Accomplished”; nominated for Teacher of the Year.

S&C Imagery LLC – Cofounder & Head of Operations

- Co-founded a small business, overseeing accounting, marketing, and client communication.
  - Managed customer engagement for 100+ clients, maintaining a 5-star public rating.
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## EDUCATION

**University of Pennsylvania** – PhD, Computational Social Science (Communication) – Current

**University of Pennsylvania** (Wharton) – MA, Statistics and Data Science – Completed 2024

- *Selected Courses:* Machine Learning (supervised/unsupervised), Neural Networks, Large Language Models, Forecasting, Econometrics, Modern Data Mining, Predictive & Generative AI Evaluation.

**Relay Graduate School of Education** – M.A.T., Mathematics – AmeriCorps / Teach For America | 2022

**Indiana University Bloomington** – B.S. Cognitive Science; Math Minor; Management Certificate; Faculty-selected, merit-based full scholarship.

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## SELECTED HONORS

- Phi Beta Kappa
- Fully Funded PhD (UPenn)
- IHS Research Grants (\$12,000)
- Information and Democracy Research Grant (\$15,000)
- President’s Volunteer Award