

ANDREW KOULOGEORGE

22 Bridlewood Road • Northbrook, IL • 847-204-3005 • andrewkoulogeorge@gmail.com • [Github](#) • [linkedin](#)

EDUCATION

Carnegie Mellon University, Pittsburgh, Pennsylvania

December 2025

- **Masters of Science:** Computer Science

Dartmouth College, Hanover, NH

June 2024

- **Bachelor of Arts:** Mathematics & Computer Science
- **Grade:** 3.98; Summa Cum Laude; Phi Beta Kappa
- **Relevant Coursework:** Randomized Algorithms (Grad), Deep Learning Robustness, Machine Learning, Artificial Intelligence, Computer Architecture, Object Oriented Programming, Data Mining, Linear Algebra, Real Analysis (Honors), Partial Differential Equations (Grad), Abstract Algebra (Honors), Econometrics

PROFESSIONAL EXPERIENCE

Harpin AI, Bend, OR

Summer 2024

Applied Scientist Intern

- Researching the application of Large Language Models (LLMs) to Harpin's core Identity Resolution product to improve customer identity matching and profile hydration

Minds, Machines, and Society Lab, Hanover, NH

March 2023 – June 2024

Large Language Model Researcher: Advised by [Soroush Vosoughi](#)

- Proposed a novel framework, Faithful Alignment (FA), to improve the interpretability of Prototypical LLMs by ensuring faithful model explanations. Demonstrated FA maintains model performance across GLUE benchmark
- Applied prompt engineering to Chat-GPT to construct The ImplicitStereo Dataset, a novel dataset used to investigate stereotype representation and detection in pre-trained LLMs

Dartmouth Computer Science Department, Hanover, NH

January 2024 – June 2024

Undergraduate Teaching Assistant

- Assisted in the instruction of COSC 74: Machine Learning and COSC 78: Deep Learning by providing one-on-one tutoring and bi-weekly office hours to review core conceptual concepts
- Graded assignments, projections and exams as well as developed supplemental course teaching material

PUBLICATIONS

Is Faithfulness in Prototypical Language Models a Mirage?

A. Koulogeorge, S. Xie, S. Hassanpour, S. Vosoughi: *Submitted to 2024 Conference on Empirical Methods in Natural Language Processing*

Deciphering Stereotypes in Pre-Trained Language Models

W. Ma, H. Scheible, B. Wang, G. Veeramachaneni, P. Chowdhary, A. Sun, A. Koulogeorge, L. Wang, Diyi Yang, S. Vosoughi: *Accepted to 2023 Conference on Empirical Methods in Natural Language Processing ([paper](#))*

SKILLS

Languages: Python, Java, C

Frameworks & Libraries: PyTorch, Hugging Face, Scikit-learn, XGBoost, Pandas, Numpy, Apache Spark, Git

Amazon Web Services: S3, SageMaker, Bedrock

SELECT PROJECTS

[Transformer from Scratch](#): Implemented decoder only Transformer architecture from scratch in PyTorch; Trained mode to imitate Harry Potter text

[Stanford CS234: Reinforcement Learning](#): Self-studied Stanford CS234; Implemented Value Iteration for finite state Markov Decision Process, Deep Q-Network for Atari, and Proximal Policy Optimization

[Traditional AI](#): Implemented A* Search and The Viterbi Algorithm for Blind Robot Planning, Minimax + Alpha-Beta Pruning for Chess AI, WalkSAT for Sudoku, Probabilistic Roadmap for Robotic Arm Planning