

ANDREW KOULOGEORGE

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA | December 2025

- **Masters of Science:** Computer Science GPA: 4.00/4.00
- **Coursework:** Machine Learning, Convex Optimization, Mathematical Statistics, Distributed Systems

Dartmouth College

Hanover, NH | June 2024

- **Bachelor of Arts:** Major in Mathematics, Minor in Computer Science GPA: 3.98/4.00
- **Awards:** Summa Cum Laude, Phi Beta Kappa

EXPERIENCE

Pinterest

Remote | September 2025 – December 2025

Machine Learning Engineering Intern

- Incoming intern for the **Advanced Technology Group (ATG)**

Forge Lab

Pittsburgh, PA | March 2025 – Present

Machine Learning Researcher: Advised by Virginia Smith

- Exploring **Efficient Inference for Vision Language Models** via Attention Sinks in Self-Attention Mechanism

AppLovin

Palo Alto, CA | May 2025 – August 2025

Research Scientist Intern

- Researched methods to improve AppLovin's bid prediction for impressions on the MAX auction house
- Adapted the *Implicit Quantile Network* (IQN) from the Reinforcement Learning community to estimate an auction's "Minimum Bid to Win" distribution
- Implemented, trained, and evaluated the IQN model on historical auction data and conducted A/B testing. Launched the IQN model on both the iOS and Android platforms, contributing **~\$45 million/year to AppLovin's margin** with predictions **touching 1.2 billion daily users**

Harpin AI

Bend, OR | June 2024 – August 2024

Applied Scientist Intern

- Applied text embedding models to enhance Harpin's core profile similarity model; trained an XGBoost classifier on over 100k record pairs, achieving a 1.5% improvement in model F1 score
- Pioneered the development of a Siamese Neural Network-based profile similarity model to enable Harpin to bypass expert feature creation and frictionlessly target customer use cases outside of identity data

PUBLICATIONS

[A. Koulogeorge](#), S. Xie, S. Hassanpour, S. Vosoughi

Bridging the Faithfulness Gap in Prototypical Models. *Insights Workshop; NAACL 2025 (Oral Presentation)*

W. Ma, H. Scheible, B. Wang, G. Veeramachaneni, P. Chowdhary, A. Sun, [A. Koulogeorge](#), L. Wang, S. Vosoughi.

Deciphering Stereotypes in Pre-Trained Language Models. *2023 EMNLP*

SELECT PROJECTS

Needle

[Code](#) | Python, Cuda | December 2024 – January 2025

- Built PyTorch inspired Deep Learning framework that supports AutoDiff, common Neural Network layers, Optimizers and Datasets/Data-loaders. Implemented backend operations in Cuda for GPU support

Distributed Systems

[Code](#) | C, Java | January 2025 – April 2025

- Implemented Remote Procedure Calls (RPCs) for Linux file operations, Distributed File-Caching Proxy with Session Semantics, Dynamically Scalable Web Service policy, and Two-Phase Commit (2PC)

SKILLS

Languages: Python, C/C++, Java, Cuda

Libraries & Tools: PyTorch, Weights & Biases, Hugging Face, Git, Numpy, Pandas, XGBoost, Scikit-learn

Cloud: GCP & AWS