

ANDREW KOULOGEORGE

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA | May 2026

- **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)** working on **Foundation Models for Recommendation Systems**

Forge Lab

Pittsburgh, PA | March 2025 – Present

Machine Learning Researcher: Advised by Virginia Smith

- Exploring **Efficient Inference for Large 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