

MATTHEW Y. R. YANG

(647) 879-1618 · myang4@andrew.cmu.edu · github.com/d1shs0ap · linkedin.com/in/matthew-yr-yang

EDUCATION

Carnegie Mellon University, School of Computer Science, Machine Learning Department 08/2024 – present
Master's in Machine Learning

- Relevant courses: Large Language Models Methods and Applications, Advanced Intro to Machine Learning

University of Waterloo 09/2019 – 04/2024

Bachelor of Computer Science, Statistics Minor. GPA: 94/100 (4.0/4.0). All terms Dean's Honours List.

- Relevant graduate courses: Recent Advances on Foundation Models, Machine Learning, Statistical and Computational Machine Learning Theory, Artificial Intelligence
- Exchange term at the National University of Singapore (NUS)

PUBLICATIONS

Disguised Copyright Infringement of Latent Diffusion Models

Yiwei Lu*, **Matthew Y. R. Yang***, Zuoqiu Liu*, Gautam Kamath, Yaoliang Yu. *Equal contributions.

International Conference on Machine Learning (ICML 2024)

Indiscriminate Data Poisoning Attacks on Pre-trained Feature Extractors

Yiwei Lu, **Matthew Y. R. Yang**, Gautam Kamath, Yaoliang Yu

Conference on Secure and Trustworthy Machine Learning (SaTML 2024)

“Low-Resource” Text Classification: A Parameter-Free Classification Method with Compressors

Zhiying Jiang, **Matthew Yang**, Mikhail Tsirlin, Raphael Tang, Yiqin Dai, Jimmy Lin

Findings of the Association for Computational Linguistics (ACL 2023)

Integration of Text and Geospatial Search for Hydrographic Datasets Using the Lucene Search Library

Matthew Y. R. Yang, Siwen Yang, Jimmy Lin

ACM/IEEE Joint Conference on Digital Libraries (JCDL 2022)

WORK EXPERIENCE

Machine Learning Engineer 09/2022 – 03/2023

Needl (Y Combinator Startup)

Seattle, WA

- Designed and implemented strategies to collect and process user signals to benchmark the core search product
- Researched various LLM-based document retrieval algorithms for the company's new search architecture
- Hired as the company's first employee

Software Engineer Intern

05/2022 – 08/2022

Rippling

San Francisco, CA

- Designed and implemented a major feature into Rippling's core product that allows companies to track and manage IT requests, significantly improving the user experience of IT admins
- Gave team-wide tutorials on code architecture to onboard full-time engineers

Software Engineer Intern

09/2021 – 12/2021

Wish

San Francisco, CA

- Developed an internal tool that lets Wish's business team resolve withheld merchant payments on their own

Machine Learning Engineer Intern

01/2021 – 04/2021

Oanda

Toronto, ON

- Built an ML pipeline including data cleaning, feature selection, and model hyperparameter tuning that led to an increase in precision by over 30% compared to the previous model in Tensorflow and XGboost

Software Engineer Intern

05/2020 – 09/2020

BorgIQ

Toronto, ON

- Added a file storage feature to the core product, built a BorgIQ Slackbot, created company's landing page

SKILLS

Languages: Python, C++/C, Java, JavaScript, HTML/CSS, SQL, Bash, Scheme

Technologies: PyTorch, Tensorflow, Hugging Face, AWS, Docker, React, Git, LaTeX

AWARDS

CRA Outstanding Undergraduate Research Award Finalist, 2024

Top 24 in North America

Canadian Math Olympiad, 2018 and 2019

Top 50 in Canada