

MATTHEW Y. R. YANG

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EDUCATION

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

- Relevant courses: Large Language Models, 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: Foundation Models, Machine Learning, Machine Learning Theory, Artificial Intelligence
- Exchange term at the National University of Singapore (NUS)

PUBLICATIONS

Disguised Copyright Infringement of Latent Diffusion Models · [paper](#) · [code](#)

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 · [paper](#) · [code](#)

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 · [paper](#) · [code](#)

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 · [paper](#) · [code](#)

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

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

Improved Accuracy vs. Privacy Trade-off in Perturbed Nearest Neighbour Searches · [code](#)

Matthew Y. R. Yang, Thomas Humphries, Florian Kerschbaum

Under review

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 in Python, 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 the 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