

# MATTHEW Y. R. YANG

(650) 519-9519 · myang4@andrew.cmu.edu · [github.com/d1shs0ap](https://github.com/d1shs0ap) · [linkedin.com/in/matthew-yr-yang](https://linkedin.com/in/matthew-yr-yang)

## EDUCATION

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<b>Carnegie Mellon University</b> , Machine Learning Department MS in Machine Learning · Relevant courses: Large Language Models, Machine Learning	08/2024 – present
<b>University of Waterloo</b> Bachelor of Computer Science, Statistics Minor · GPA: 4.0/4.0. Dean's Honours. · Relevant graduate courses: Foundation Models, Machine Learning, ML Theory, Artificial Intelligence, Linear Models	09/2019 – 04/2024

## PUBLICATIONS

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Disguised Copyright Infringement of Latent Diffusion Models · <a href="#">paper</a> · <a href="#">code</a> Yiwei Lu*, <b>Matthew Y. R. Yang*</b> , Zuoqiu Liu*, Gautam Kamath, Yaoliang Yu. *Equal contributions.	ICML 2024
Indiscriminate Data Poisoning Attacks on Pre-trained Feature Extractors · <a href="#">paper</a> · <a href="#">code</a> Yiwei Lu, <b>Matthew Y. R. Yang</b> , Gautam Kamath, Yaoliang Yu	SaTML 2024
“Low-Resource” Text Classification: A Parameter-Free Classification Method · <a href="#">paper</a> · <a href="#">code</a> Zhiying Jiang, <b>Matthew Yang</b> , Mikhail Tsirlin, Raphael Tang, Yiqin Dai, Jimmy Lin	ACL 2023
Integration of Text and Geospatial Search for Hydrographic Datasets · <a href="#">paper</a> · <a href="#">code</a> <b>Matthew Y. R. Yang</b> , Siwen Yang, Jimmy Lin	JCDL 2022
Improved Accuracy vs. Privacy Trade-off in Perturbed Nearest Neighbour Searches · <a href="#">code</a> <b>Matthew Y. R. Yang</b> , Thomas Humphries, Florian Kerschbaum	Under Review

## WORK EXPERIENCE

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<b>Machine Learning Engineer</b> Needl (Y Combinator Startup) · Designed and implemented strategies to collect and process user signals to benchmark the core search product · Researched various LLM-based document retrieval algorithms to decide on the company's new search architecture · Hired as the company's first employee	09/2022 – 03/2023 Seattle, WA
<b>Software Engineer Intern</b> Rippling · 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	05/2022 – 08/2022 San Francisco, CA
<b>Software Engineer Intern</b> Wish · Developed internal tools that allow Wish's business team to handle withheld merchant payments	09/2021 – 12/2021 San Francisco, CA
<b>Machine Learning Engineer Intern</b> Oanda · Built an end-to-end ML pipeline that includes data cleaning, feature selection, and model hyperparameter tuning · Increased the precision of classifying high-value clients by over 30% compared to the previous model	01/2021 – 04/2021 Toronto, ON
<b>Software Engineer Intern</b> BorgIQ · Added a file storage feature to the core product; built a BorgIQ Slackbot; created the company's landing page	05/2020 – 09/2020 Toronto, ON

## SKILLS

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**Languages:** Python, C++/C, Java, JavaScript, HTML/CSS, SQL, Bash, Scheme  
**Technologies:** PyTorch, Tensorflow, Hugging Face, AWS, Docker, React, Git, LaTeX

## AWARDS

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CRA Outstanding Undergraduate Research Award Finalist, 2024	Top 24 in North America
Canadian Math Olympiad, 2018 and 2019	Top 50 in Canada