

MATTHEW Y. R. YANG

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EDUCATION

Carnegie Mellon University , Machine Learning Department MS in Machine Learning <ul style="list-style-type: none">Relevant courses: Large Language Models, Machine Learning	08/2024 – present
University of Waterloo Bachelor of Computer Science, Statistics Minor <ul style="list-style-type: none">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

Disguised Copyright Infringement of Latent Diffusion Models · paper · code Yiwei Lu*, Matthew Y. R. Yang* , Zuoqiu Liu*, Gautam Kamath, Yaoliang Yu. *Equal contributions.	ICML 2024
Indiscriminate Data Poisoning Attacks on Pre-trained Feature Extractors · paper · code Yiwei Lu, Matthew Y. R. Yang , Gautam Kamath, Yaoliang Yu	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	ACL 2023
Integration of Text and Geospatial Search for Hydrographic Datasets · paper · code Matthew Y. R. Yang , Siwen Yang, Jimmy Lin	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 Needl (Y Combinator Startup) <ul style="list-style-type: none">Designed and implemented strategies to collect and process user signals to benchmark the core search productResearched various LLM-based document retrieval algorithms to decide on the company's new search architectureHired as the company's first employee	09/2022 – 03/2023 Seattle, WA
Software Engineer Intern Rippling <ul style="list-style-type: none">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 adminsGave team-wide tutorials on code architecture to onboard full-time engineers	05/2022 – 08/2022 San Francisco, CA
Software Engineer Intern Wish <ul style="list-style-type: none">Developed internal tools that allow Wish's business team to handle withheld merchant payments	09/2021 – 12/2021 San Francisco, CA
Machine Learning Engineer Intern Oanda <ul style="list-style-type: none">Built an ML pipeline that includes data cleaning, feature selection, and model hyperparameter tuningIncreased the precision of classifying high-value clients by over 30% compared to the previous model	01/2021 – 04/2021 Toronto, ON
Software Engineer Intern BorgIQ <ul style="list-style-type: none">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

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 Canadian Math Olympiad, 2018 and 2019	Top 24 in North America Top 50 in Canada
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