ALEX N. WANG

PERSONAL INFORMATION

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EDUCATION

New York University

Courant Institute of the Mathematical Sciences 2022-ongoing
Ph.D. Computer Science
Advised by Pavel Izmailov

University of Toronto

Department of Computer Science 2020-2022
M.Sc. Computer Science
Advised by Richard Zemel
cGPA 4.0/4.0

Department of Engineering Science 2015-2020
B.A.Sc. Engineering Science (Robotics specialization)
cGPA 3.57/4.0

RESEARCH

* - equal contribution, †- advising author

Alex N. Wang, Trevor Darrell†, Pavel Izmailov†, Yutong Bai*,†, Amir Bar*,†
Lifting Ego World Models for Planning and Control
In Submission.
[preprint to come]

Alex N. Wang*, Christopher Hoang*, Yuwen Xiong, Yann LeCun, Mengye Ren
PooDLe: Pooled and dense self-supervised learning from naturalistic videos.
In *International Conference on Learning Representations* (ICLR), 2025
[paper] [website]

Emin Orhan, Wentao Wang, **Alex N. Wang**, Mengye Ren, Brendan M. Lake
Self-supervised learning of video representations from a child's perspective.
In *Cognitive Science Society* (CogSci), 2024
[paper]

Alex N. Wang*, Gary Leung*, Sasha Doubov*
Studying BatchNorm Learning Rate Decay on Meta-Learning Inner-Loop Adaptation.
In *NeurIPS Meta-Learn Workshop*, 2021

Alex N. Wang*, Mengye Ren*, Richard Zemel
SketchEmbedNet: Learning Novel Visual Concepts by Imitating Drawings.
In *International Conference on Machine Learning* (ICML), 2021
[paper] [code]

WORK EXPERIENCE

AI Research Intern Meta *05/2022-09/2022*

New York, NY, United States
Using auxiliary labels to direct MAE pretraining for video representation learning.
Worked with Kartikeya Upasani, Francois Fagan, Florian Metze and Haoqi Fan.

Research Intern Vector Institute for Artificial Intelligence *05/2020-09/2020*

Toronto, ON, Canada
Representation learning, few-shot learning, computer vision
Worked with Richard Zemel and Mengye Ren

SDE Intern Amazon Canada *05/2019-09/2019*

Toronto, ON, Canada
Amazon Alexa, media processing team

Machine Learning Intern Honey Science Corporation *01/2019-05/2019*

Los Angeles, CA, USA
Recommender systems, unsupervised-learning, multi-modal learning
Personalization team

Software Intern Flipp Corporation *09/2018-12/2018*

Toronto, ON, Canada
Data processing team

SDE Intern Amazon Canada *05/2018-9/2018*

Toronto, ON, Canada
Amazon Fulfillment, Supply Chain Connect team

Software Intern PocketHealth *05/2018-9/2018*

Toronto, ON, Canada

PROFESSIONAL SERVICES

Workshop Reviewer *10/2024*
In *NeurIPS Workshop on Adaptive Foundation Models*, 2024

Conference Reviewer *08/2024*
In *Winter Conference on Applications of Computer Vision*, 2024

Conference Reviewer *02/2022*
In *First Conference on Automated Machine Learning*, 2022

Workshop Reviewer *10/2021*
In *NeurIPS Meta-Learn Workshop*, 2021

HONORS AND AWARDS

Postgraduate Scholarship - Doctoral (PGS D) *09/2023*
Natural Science and Engineering Research Council of Canada (NSERC)

McCracken Fellowship *09/2022*
Graduate School of Arts and Science, New York University

TEACHING

DS-GA1008: Deep Learning (Section Lead) *01/2025-5/2025*

STA314: Statistical Methods for Machine Learning I (Teaching Assistant) *09/2021-12/2021*

CSC104: Computational Thinking (Teaching Assistant) *09/2020-12/2020*

INVOLVEMENT

Mentor *07/2023-08/2023*
GSTEM, New York University

Student Mentor *09/2021-05/2022*
NSight Mentorship Program, University of Toronto

Frosh Leader *09/2016*
Engineering Orientation Week, University of Toronto

CS Program Development *05/2016-09/2016*
Engineering Outreach, University of Toronto