CHRIS AGIA

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EDUCATION

PhD. in Computer Science, Stanford University   Sep21-Present
Advisers (rotational): Jiajun Wu; (next) Fei-Fei Li, Jeannette Bohg
Relevant Coursework: interactive and embodied learning, multi-task and meta-learning, differentiable graphics

BASc. in Engineering Science, Robotics, University of Toronto   Sep16-May21
Relevant Coursework: robot perception and control, geometric deep learning, reinforcement learning, statistical ML

RESEARCH   to publications

Stanford Artificial Intelligence Laboratory (SAIL)   Toronto, ON
Graduate Researcher at the Stanford Vision and Learning Lab (SVL) advised by Jiajun Wu   May20 - May21
Topics: deep multi-task planning for mobile manipulation in long-horizon task settings

Vector Institute & University of Toronto   Toronto, ON
Undergraduate Researcher at the Robot Vision and Learning Lab advised by Florian Shkurti   May20 - May21
Topics: learning to plan in symbolic 3D scene graphs with graph neural networks

Mila & McGill University   Montreal, QC
Research Intern at the Mobile Robotics Lab co-supervised by Gregory Dudek and David Meger   Jan20 - May20
Topics: depth prediction for direct visual SLAM, visual representation learning for self-driving control

Noah's Ark Lab, Huawei Canada   Markham, ON
Deep Learning Research Intern on the Perception and Localization Team with Bingbing Liu   May19 - May20
Topics: 3D semantic understanding for scene reconstruction, road estimation and SLAM

University of Toronto Robotics Institute   Toronto, ON
Research Intern at the Autonomous Systems and Biomech. Lab supervised by Goldie Nejat   May18 - Aug18
Topics: sim2real transfer of deep reinforcement learning based autonomous navigation policies

INDUSTRY

Microsoft, Mixed Reality and Robotics   Redmond, WA
Software Engineering Intern on the Scene Understanding and Data Teams (HoloLens)   May21 - Aug21
Topics: bridging multi-agent reinforcement learning scenarios into mixed reality environments

Google, Cloud   San Francisco, CA
Software Engineering Intern building ABI simulators with the Istio Networking Team   May20 - Aug20

aUToronto, UofT AutoDrive Group   Toronto, ON
Autonomy Engineer developing deep learning pipelines with the Object Detection Team   Aug19 - May20

HONOURS / AWARDS

Stanford Graduate Fellowship, School of Engineering (+$75,000), 2021
Dean's Honour List, 2018-2021
1st Place Programming, Ontario Engineering Competition ($2500), 2019
1st Place Programming, University of Toronto Engineering Competition, 2019
NSERC Undergraduate Student Research Award ($6000), 2018
President's Scholarship Program, University of Toronto ($6000), 2016

SKILLS

Languages (*Proficient*) Python, C/C#/C++, MATLAB, Rust, LaTeX, Bash - (*Working*) Java, Assembly
Software Tools Git, Linux/Unix, Unity, Docker, Wasmtime (WebAssembly), Kubernetes
Libraries PyTorch, TensorFlow, ROS, NumPy, ml-agents, PCL, OpenCV, SciPy, scikit-learn, Pandas, Jupyter