# CHRIS AGIA

+1 (650) 334-7714 · cagia@cs.stanford.edu · 218 Ayrshire Farm Lane, Stanford 94305
*https://agiachris.github.io/*

## 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
Graduation with Honours, Dean's Honour List 2018-2021
*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 School of Engineering Fellowship, Computer Science (+$75,000), 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