

Kyle Hsu

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EDUCATION

University of Toronto, Toronto ON 2015 – present
BASc Candidate in Engineering Science, Major in Robotics Engineering CGPA: 3.98/4.00
Relevant coursework: machine learning, deep reinforcement learning, algorithms and data structures, systems software, probability and statistics, linear algebra, differential equations, optimization, control systems, dynamics

RESEARCH EXPERIENCES

Berkeley AI Research, UC Berkeley, Berkeley CA June 2018 – present
Visiting Student Researcher with Prof. Sergey Levine and Dr. Chelsea Finn
Topic: unsupervised meta-learning for few-shot image classification and reinforcement learning
Tools: Python, TensorFlow, PyTorch

Max Planck Institute for Software Systems, Kaiserslautern RP June 2017 – April 2018
Research Intern with Prof. Rupak Majumdar
Topic: scalable abstraction-based controller synthesis algorithms
Tools: C++, MATLAB

Micro/NanoPhotonics Lab, University of Toronto, Toronto ON May 2016 – November 2017
Undergraduate Researcher with Prof. Joyce Poon
Topic: characterization of laser and waveguide designs for photonic integrated circuits
Tools: optical table equipment, MATLAB

PUBLICATIONS

- [5] †**Kyle Hsu**, Rupak Majumdar, Kaushik Mallik, and Anne-Kathrin Schmuck, “Lazy abstraction-based control for reachability”, under review.
- [4] **Kyle Hsu**, Sergey Levine, and Chelsea Finn, “Unsupervised learning via meta-learning”, in *International Conference on Learning Representations (ICLR)*, 2019.
- [3] †**Kyle Hsu**, Rupak Majumdar, Kaushik Mallik, and Anne-Kathrin Schmuck, “Lazy abstraction-based control for safety specifications”, in *IEEE Conference on Decision and Control (CDC)*, 2018.
- [2] †**Kyle Hsu**, Rupak Majumdar, Kaushik Mallik, and Anne-Kathrin Schmuck, “Multi-layered abstraction-based controller synthesis for continuous-time systems”, in *Hybrid Systems: Computation and Control (HSCC)*, 2018.
- [1] Ryan Going, Tae Joon Seok, Jodi Loo, **Kyle Hsu**, and Ming C. Wu, “Germanium wrap-around photodetectors on silicon photonics”, *Optics Express*, 2015. †alphabetical author ordering.

AWARDS AND FELLOWSHIPS

Student Travel Grant Cyber-Physical Systems Week, 2018
RISE-Globalink Research Internship Germanic Academic Exchange Service & Mitacs Canada, 2017
Undergraduate Student Research Award (declined) Natural Sciences and Engineering Research Council, 2017
Wallberg Undergraduate Scholarship University of Toronto, 2016
Engineering Science Research Opportunities Fellowship University of Toronto, 2016
Walter Scott Guest Memorial Scholarship University of Toronto, 2015

SERVICE AND LEADERSHIP

You’re Next Career Network, University of Toronto May 2017 – April 2018
Director of Business Development

Galbraith Society, University of Toronto Sept 2016 – June 2017
Undergraduate Engineering Journal Editor