HUBERT LIN

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EDUCATION

Cornell University, PhD — Aug 2016 – Present
Computer Science

University of Toronto, HBSc — June 2016
Major in Computer Science, Major in Physics, Minor in Mathematics | CGPA: 3.99 / 4.00

PUBLICATIONS

See website: www.cs.cornell.edu/~hubert

- **What Can Style Transfer and Paintings Do For Model Robustness?.**
  - Lin, H.; Van Zuijlen, M.; Wijntes, M.W.A.; Pont, S.C.; Bala, K. Preprint.
- **AutoPhoto: Aesthetic Photo Capture using Reinforcement Learning.**
  - Al-Zayer, H.; Lin, H.; Bala, K. Preprint.
- **Insights from a Large-Scale Database of Material Depictions in Paintings.**
  - Lin, H.; Van Zuijlen, M.; Wijntes, M.W.A.; Pont, S.C.; Bala, K. FAPER ICPR 2020.
- **A Database of Painterly Material Depictions.**
  - Van Zuijlen, M.; Lin, H.; Bala, K.; Pont, S.C.; Wijntes, M.W.A. V-VSS 2020.
- **Silva: Interactively Assessing Machine Learning Fairness Using Causality.**
  - Yan, J.N.; Gu, Z.; Lin, H.; Rzeszotarski, J; CHI 2020.
- **DeepSemanticHPPC: Hypothesis-based Planning over Uncertain Semantic Point Clouds.**
  - Lin, H.*; Han, Y.*; Banfi, J.*; Bala, K.; Campbell, M. ICRA 2020.
- **Block Annotation: Better Image Annotation with Sub-Image Decomposition.**
  - Lin, H.; Upchurch, P.; Bala, K. ICCV 2019.
- **Learning Material-Aware Local Descriptors for 3D Shapes.**
  - Lin, H.; Averkiou, M.; Kalogerakis, E.; Kovacs, B.; Ranade, S.; Kim, V. G.; Chaudhuri, S.; Bala, K. 3DV 2018.
- **Identifying and avoiding confusion in dialogues of people with Alzheimer's Disease.**
  - Chinaei, H.; Chan Currie, L.; Danks, A.; Lin, H.; Mehta, T.; Rudzicz, F. Computational Linguistics 2017.

PRESENTATIONS

ICRA 2020 (virtual poster) — Virtual
Cornell Graphics / Vision Retreat Winter 2020 — Cornell University
ICCV 2019 — Seoul, Korea
Cornell Graphics / Vision Seminar Fall 2018 — Cornell University
3DV 2018 — Verona, Italy
DCS Undergraduate Student Research Program 2015 — University of Toronto
Canadian Undergraduate Physics Conference 2014 — Queen's University

PROFESSIONAL EXPERIENCE

Research Assistant

Cornell University — Jan 2017 – Present
- Human-centric priors for visual recognition
- Autonomous navigation
- Image annotation

University of Toronto — May 2015 – Dec 2015
- Noise models for 3D protein reconstruction from electron cryomicroscopy images
- Guiding cognitively-impaired persons through a picture-description task with a communicative robot

University of Waterloo — May 2014 – Aug 2014
- Closing the gap in quantum bit error rate for secure key generation in the six-state QKD protocol

Teaching Assistant

CS2112: Honors Object Oriented Programming — Sept 2016 – June 2017
CS2800: Discrete Structures
CSC108: Introduction to Computer Programming — Sept 2014 – Dec 2014

HONORS AND AWARDS

- NSERC Postgraduate Scholarship D 2018
  - CAD$63,000
- NSERC Canada Graduate Scholarship M 2016
  - Awarded and declined
- NSERC Undergraduate Student Research Award 2015
  - Computer Science, University of Toronto
  - CAD$6,000
- NSERC Undergraduate Student Research Award 2014
  - Physics, University of Waterloo
  - CAD$8,000
- Course Scholarships (various), University of Toronto
  - CAD$28,967
- Top 15 Junior Canadian Computing Competition 2011

COMMUNITY SERVICE

- Reviewer (various venues)
- Expanding Your Horizons at Cornell, Workshop Leader, 2017
- University of Toronto, University Physics Competition Preparation Session Speaker, 2015

SKILLS

Proficient with: Python, PyTorch, Tensorflow, Vim, LaTeX, Git
Working familiarity with: C/C++, Java, Matlab, AWS EC2, Caffe

Work Authorization: US Citizen