HUBERT LIN

hubert@cs.cornell.edu | www.cs.cornell.edu/~hubert

EDUCATION

Cornell University, PhD	Aug 2016 – Present
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	
• Materials In Paintings (MIP): An interdisciplinary dataset for perception, art history, and	computer vision.
• Van Zuijlen, M.; <u>Lin, H.</u> ; Bala, K.; Pont, S.C.; Wijntes, M.W.A. PLOS One 2021.	
AutoPhoto: Aesthetic Photo Capture using Reinforcement Learning.	
 Al-Zayer, H.; <u>Lin, H.</u>; Bala, K. IROS 2021. 	
 What Can Style Transfer and Paintings Do For Model Robustness?. 	
• <u>Lin, H.;</u> Van Zuijlen, M.; Wijntes, M.W.A.; Pont, S.C.; Bala, K. CVPR 2021.	
 Insights from a Large-Scale Database of Material Depictions in Paintings. 	
• <u>Lin, H</u> .; Van Zuijlen, M.; Wijntes, M.W.A.; Pont, S.C.; Bala, K. FAPER ICPR 2020.	
Silva: Interactively Assessing Machine Learning Fairness Using Causality.	
• Yan, J.N.; Gu, Z.; <u>Lin, H.</u> ; Rzeszotarski, J; CHI 2020.	
• DeepSemanticHPPC: Hypothesis-based Planning over Uncertain Semantic Point Clouds.	
• Han, Y.*; <u>Lin, H.*;</u> Banfi, J.*; Bala, K.; Campbell, M. ICRA 2020.	
Block Annotation: Better Image Annotation with Sub-Image Decomposition.	
• <u>Lin, H.;</u> Upchurch, P.; Bala, K. ICCV 2019.	
• Learning Material-Aware Local Descriptors for 3D Snapes.	
 <u>LIII, H.;</u> AVERKIOU, M.; Kalogerakis, E.; Kovacs, B.; Kanade, S.; Kim, V. G.; Chaudhuri Identifying and avoiding confusion in dialogues of people with Alzheimer's Disease 	, S.; Bala, K. 3DV 2018.
• Identifying and avoiding confusion in dialogues of people with Alzheimer's Disease.	Linguistics 2017
Childer, II., Chan Cuille, E., Danks, A., <u>Lin, II.</u> , Menta, I., Rudzicz, F. Computational	Linguistics 2017.
PRESENTATIONS	
CVPR 2021	Virtual
V-VSS 2021	Virtual
ICCP Posters 2021	Virtual
The Skin of Things 2021	Virtual
FAPER ICPR 2020	Virtual
ICRA 2020 Cornell Craphics / Vision Potreat 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 Intern	
Waymo	May 2021 – Sept 2021
Self-supervised 2D camera detection from camera+lidar videos	
Research Assistant	
Cornell University	Jan 2017 – Present
Learning robust visual recognition models from paintings	
Visual perception for robust 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 WaterlooClosing the gap in quantum bit error rate for secure key gene	May 2014 – Aug 2014 eration in the six-state QKD protocol
Teaching Assistant CS2112: Honors Object Oriented Programming CS2800: Discrete Structures CSC108: Introduction to Computer Programming	Sept 2016 – June 2017 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: CVPR, ICCV, 3DV, IJCAI, ICRA, AURO, SIGG 	RAPH

• 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