

Kelvin Cheng

1730 Varsity Dr, Raleigh, NC, United States, 27606 ☎ (919) 515 2858 ✉ kbcheng@ncsu.edu

CITIZENSHIP	Canadian
RESEARCH INTERESTS	3D Computer Vision, Machine Learning, Natural Language Processing, Data Science
PROFESSIONAL EXPERIENCES	<p>ABB, Raleigh, United States, Summer 2020 Research Intern – Computer Vision and Perception</p> <p>KPMG, Guangzhou, China, Summer 2013 Summer Intern - Consulting</p>
EDUCATION	<p>North Carolina State University, United States, 2019–2023 PhD (in progress), Department of Computer Science</p> <ul style="list-style-type: none">Advisors: Tianfu Wu, PhD Christopher Healey, PhD <p>Simon Fraser University, Vancouver, Canada, 2015–2019 MSc, Department of Computing Science</p> <ul style="list-style-type: none">Advisors: Ping Tan, PhDThesis title: A Neural Network for Monocular Point Cloud Estimation of Humans <p>Simon Fraser University, Vancouver, Canada, 2010–2015 BSc, Department of Computing Science</p> <ul style="list-style-type: none">Bachelor’s degree in Computing Science, specialize in Artificial Intelligence
PUBLICATIONS	<p>Publications:</p> <ul style="list-style-type: none">Sicong Tang*, Feitong Tan*, Kelvin Cheng, Zhaoyang Li, Siyu Zhu, Ping Tan. A Neural Network for Detailed Human Depth Estimation from a Single Image (<i>oral presentation</i>). <i>International Conference on Computer Vision (ICCV)</i> Seoul, South Korea, Oct. 2019. <p>Working papers:</p> <ul style="list-style-type: none">Kelvin Cheng, Christopher Healey, Tianfu Wu. Towards Adversarially Robust and Domain Generalizable Stereo Matching by Rethinking DNN Feature Backbones. 2020.Kelvin Cheng, Christopher Healey, Tianfu Wu. Neural Volume Rendering based Self-Supervised Stereo Matching. 2021. <p>Theses:</p> <ul style="list-style-type: none">Kelvin Cheng. A Neural Network for Monocular Point Cloud Estimation of Humans. Master’s thesis, Simon Fraser University, 2019.
PRESENTATIONS	<p><i>Note that a dagger denotes refereed conference presentations given by a coauthor.</i></p> <p>Sicong Tang, Feitong Tan, Kelvin Cheng, Zhaoyang Li, Siyu Zhu, Ping Tan. A Neural Network for Detailed Human Depth Estimation from a Single Image.</p> <ul style="list-style-type: none">International Conference on Computer Vision (ICCV)[†], Seoul, South Korea, Nov 1, 2019.
SCHOLARSHIPS	<ul style="list-style-type: none">University Graduate Fellowship, North Carolina State University, 2019–2020 (\$US 4,000)NSERC Undergraduate Student Research Awards, 2015 (\$CAD 5,740)
OTHER RESEARCH PROJECTS	<ul style="list-style-type: none">Adaptable Deep Learning Based Depth Refinement for Infrared Stereo Cameras (ABB, 2020)Volumetric Reconstruction of Deformable Objects from RGB-D Images (SFU, 2018)Non-rigid Structure from Motion of Fabrics (SFU, 2017)

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| TECHNICAL SKILLS | <ul style="list-style-type: none">▪ Programming: Python, C++, C, MATLAB, R, Stata, Julia, JavaScript, Java, VBA▪ Libraries: PyTorch, CUDA, TensorFlow, Pandas, OpenGL/WebGL, NLTK, Numpy |
| REVIEWING
ACTIVITIES | <ul style="list-style-type: none">▪ IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2022 |
| LANGUAGES | <ul style="list-style-type: none">▪ Cantonese (native)▪ Mandarin (native)▪ English (fluent) |