Haoda Li

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Education

University of Toronto, St. George Campus **Sep. 2017 – May 2022 (Expected)**
Honours BSc in Computer Science & Data Science (GPA: 3.90/4.0) Toronto, ON

Research Interest

I'm broadly interested in 3D computer vision, computer graphics, reinforcement learning, and machine learning.

Publications

Yun-Chun Chen, **Haoda Li**, Dylan Turpin, Alec Jacobson, Animesh Garg. "Neural Shape Mating: Self-Supervised Object Assembly with Adversarial Shape Priors", in *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022, Under Review

Varshanth R. Rao, Md Ibrahim Khalil, **Haoda Li**, Peng Dai, Juwei Lu. "Decompose the Sounds and Pixels, Recompose the Events", in *Confernce on Artificial Intelligence (AAAI)*, 2022, Accepted

Research Experience

PAIR Lab, Vector Institute **August 2021 – Now**
Research student, supervised by Animesh Garg Toronto, ON
- Research on a novel method for robot to grasp and assemble objects using 3D computer vision.

Noah's Ark Lab, Huawei Canada **May 2020 – August 2021**
Research Engineer Intern Markham, ON
- Working on a novel method for event localization and classification in videos.
- Assisting research on self-supervised video indexing and retrieval.
- Researching and integrating video understanding methods for video editing applications.
- Assisting research on hand tracking and human action recognition.

Wang Lab, University Health Network **September 2019 – April 2020**
Undergraduate Researcher, supervised by Bo Wang Toronto, ON
- Designing and creating an interactive application for processing and visualizing high-dimensional data in single cell analysis.
- Researching on CUDA acceleration for single cell analysis algorithms.

Dept. of Computer Science, University of Toronto **January 2021 – June 2021**
Research Assistant with Fanny Chevalier and Nathan Taback Toronto, ON
- Working on a new R package for multiverse analysis education.

Teaching Experience

CSC417H1/CSC2549H Physics based Animation **2021 Fall**
Teaching Assistant with Prof. David I.W. Levin University of Toronto

CSC311H5 Introduction to Machine Learning **2021 Fall**
Teaching Assistant with Prof. Anthony Bonner University of Toronto

CSC317H1 Computer Graphics **2022 Winter**
Teaching Assistant with Prof. David I.W. Levin and Prof. Alec Jacobson University of Toronto

Honours and Awards

Dr. James A. & Connie P. Dickson Scholarship In Science & Mathematics **October 2020**
University College Special Admission Scholarships **September 2017**
Dean's List Scholar **2017–2021, all years**

Relevant Coursework

Computer Graphics: Physics-Based Animation; Geometry Processing; Computer Graphics

Computer Vision: Intro Visual Computing; Intro Image Understanding

Deep Learning: Neural Nets and Deep Learning; Probabilistic Learning and Reasoning; Intro Machine Learning

Numerical Analysis: Numerical Methods; Nonlinaer Optimization; Intro Real Analysis

Theory of Computation: Algorithm Design, Analysis, and Complexity; Enriched Data Structures and Analysis; Enriched Intro Theory of Computation