# Tianqin Li

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Doctoral Student, Computer Science Department, School of Computer Science, Carnegie Mellon University

## EDUCATION

- **Carnegie Mellon University, School of Computer Science, PA** Aug 2022 – *Present*
  Ph.D. Program in Computer Science
- **Carnegie Mellon University, School of Computer Science, PA** Aug 2019 – May 2021
  Master of Science in Computational Biology
  *Graduate with Research Excellence*
- **Sun Yat-sen University, China** Aug 2015 – June 2019
  Bachelor of Science in Biotechnology
  *National Elite Class for Applicational Science and Technology*
- **University of California, Berkeley, CA** Jan 2018 – Aug 2018
  Non-degree session for Statistic & Computer Science

## RELEVANT COURSEWORK

Mobile Computing, Deep Learning System, Deep Learning, Machine Learning, Computer System, Discrete Differential Geometry, Distributed & Operating System, Algorithm & Advanced Data Structure, Probabilistic Graphic Models, High Dimensional Statistics, Linear Algebra, Neural Computation, Deep Reinforcement Learning & Control

## SELECTED PUBLICATION

**Tianqin Li,** Ziqi Wen, Yangfan Li, Tai Sing Lee. "Emergence of Shape Bias in Convolutional Neural Networks through Activation Sparsity". **NeurIPS 2023 (Oral, top 1%).**

**Tianqin Li***, Zijie Li*, Andrew Luo, Harold Rockwell, Amir Barati Farimani, Tai Sing Lee. "Prototype memory and attention mechanisms for few-shot image generation". **ICLR 2022**.
* denotes equal contributions.

Yao-Hung Hubert Tsai*, **Tianqin Li*,** Martin Q. Ma, Han Zhao, Kun Zhang, Louis-Philippe Morency, Ruslan Salakhutdinov. "Conditional Contrastive Learning with Kernel". **ICLR 2022**.
* denotes equal contributions.

Yao-Hung Hubert Tsai*, **Tianqin Li***, Weixin Liu, Peiyuan Liao, Ruslan Salakhutdinov, Louis-Philippe Morency. "Learning Weakly-supervised Contrastive Representations". **ICLR 2022**.
* denotes equal contributions.

Zijie Li, **Tianqin Li**, Amir Barati Farimani. "TPU-GAN: Learning temporal coherence from dynamic point cloud sequence". **ICLR 2022**.

Andrew Luo, **Tianqin Li**, Wen-Hao Zhang, Tai Sing Lee. "SurfGen: Adversarial 3D Shape Synthesis with Explicit Surface Discriminators". **ICCV 2021**.

## TEACHING EXPERIENCE

- CMU 15-387 Computational Perception, Computer Science Department Fall 2021
- CMU 11-777 Multimodal Machine Learning, Language Technology Institute Fall 2021
- CMU 15-386 Neural Computation, Computer Science Department Spring 2021, Spring 2022

## COMMUNITY SERVICES

- Reviewer for ICLR, NeurIPS, KDD, and BMVC.

## AWARDS

- Best Software Project Award, 16th International Genetic Engineering Machine Competition (iGEM).
- NeurIPS 2023 Scholar Award.