

# Tianqin Li

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

## EDUCATION

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- **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 Statistics & Computer Science

## RELEVANT COURSEWORK

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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

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**Tianqin Li**, Ziqi Wen, Yangfan Li, Tai Sing Lee. “Emergence of Shape Bias in Convolutional Neural Networks through Activation Sparsity”. **NeurIPS 2023 (Oral Presentation)**.

**Tianqin Li\***, Junru Zhao\*, Tai Sing Lee. “Incorporating Human Shape Bias for Accelerated Self-supervised Learning”. In submission, 2024.  
\* denotes equal contributions (alphabetical order).

**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 (alphabetical order).

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

**Tianqin Li\***, Yao-Hung Hubert Tsai\*, Weixin Liu, Peiyuan Liao, Ruslan Salakhutdinov, Louis-Philippe Morency. “Learning Weakly-supervised Contrastive Representations”. **ICLR 2022**.  
\* denotes equal contributions (alphabetical order).

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

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- CMU 11-777 Multimodal Machine Learning, Language Technology Institute
- CMU 15368 Computational Perception, Computer Science Department

## AWARD

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- Best Software Project (Team Leader of 20), 16th International Genetic Engineering Machine Competition.
- NeurIPS 2023 Oral. NeurIPS 2023 Scholar Award.