

# Tianqin Li

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

## Education

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<b>Carnegie Mellon University</b> , School of Computer Science, PA	
Ph.D. in Computer Science	Aug 2022 – Present
<b>Carnegie Mellon University</b> , School of Computer Science, PA	
M.S. in Computational Biology	Aug 2019 – May 2021
Graduated with <b>Research Excellence</b>	
<b>Sun Yat-sen University</b> , China	
B.S. in Biotechnology	Aug 2015 – Jun 2019
National Elite Class for Applicational Science and Technology	
<b>University of California, Berkeley</b> , CA	
Non-degree Program, Computer Science & Statistics	Jan 2018 – Aug 2018

## Relevant Coursework

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Mobile Computing; Deep Learning Systems; Deep Learning; Machine Learning; Computer Systems; Distributed & Operating Systems; Algorithms & Advanced Data Structures; Discrete Differential Geometry; Probabilistic Graphical Models; High-Dimensional Statistics; Linear Algebra; Neural Computation; Deep Reinforcement Learning & Control

## Selected Publications

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Jade Zheng\*, Fernando Jia\*, Florence Li\*, Rebekah Jia\*, **Tianqin Li\***.  
*Intelligence Cubed: A Decentralized Modelverse for Democratizing AI.*  
Preprint, 2025.

\*Equal contribution (alphabetical order).

**Tianqin Li**, Ziqi Wen, Leiran Song, Jun Liu, Zhi Jing, Tai Sing Lee.  
*From Local Cues to Global Percepts: Emergent Gestalt Organization in Self-Supervised Vision Models.*  
Preprint, 2025.

**Tianqin Li\***, Junru Zhao\*, Dunhan Jiang, Shenghao Wu, Alan Ramirez, Tai Sing Lee.  
*Perceptual Inductive Bias Is What You Need Before Contrastive Learning.*  
CVPR 2025.

\*Equal contribution (alphabetical order).

Yifan Li, Xin Li, **Tianqin Li**, Wenbin He, Yu Kong, Liu Ren.  
*ViT-Split: Unleashing the Power of Vision Foundation Models via Efficient Splitting Heads.*  
ICCV 2025.

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

\*Equal contribution (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.

\*Equal contribution (alphabetical order).

**Tianqin Li\***, Yao-Hung Hubert Tsai\*, Weixin Liu, Peiyuan Liao,  
Ruslan Salakhutdinov, Louis-Philippe Morency.  
*Learning Weakly-Supervised Contrastive Representations.*  
ICLR 2022.

\*Equal contribution (alphabetical order).

Zijie Li, **Tianqin Li**, Amir Barati Farimani.  
*TPU-GAN: Learning Temporal Coherence from Dynamic Point Cloud Sequences.*  
ICLR 2022.

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

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## Teaching Experience

**CMU 11-777 – Multimodal Machine Learning**  
Language Technologies Institute, Carnegie Mellon University

**CMU 15-368 – Computational Perception**  
Computer Science Department, Carnegie Mellon University

**CMU 15-367 – Neural Computation**  
Computer Science Department, Carnegie Mellon University

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## Awards & Scholarships

- NeurIPS 2023 Oral Presentation (selective ~1%)
- NeurIPS 2023 Scholarship
- Gibbons-Newell Graduate Fellowship
- Best Software Project, 16th International Genetically Engineered Machine Competition (iGEM)  
(Team leader of 16, Team ranks among Top 3% with ~6000 participants globally)