

# Lingxiao Li

Research Scientist at Netflix  
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## EDUCATION

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- Ph.D. Candidate in Computer Science, MIT** *Sep. 2019 – May 2024*  
Geometric Data Processing Group  
Advisor: Justin Solomon  
GPA: 5.0/5.0
- Master of Science in Mathematics, Stanford University** *Sep. 2018 – Jun. 2019*  
GPA: 4.05/4.3
- Bachelor of Science, Stanford University** *Sep. 2014 – Jun. 2018*  
Double major in Computer Science and Mathematics (with Honors)  
GPA: 4.05/4.3

## WORK EXPERIENCE

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- Netflix, Los Gatos, CA, Research Scientist** *2024 Summer – Present*  
Working on developing tools to enhance content creation for original series, movies, and video games.
- Microsoft Research, Boston, MA, Research Intern** *2023 Summer*  
Worked with Lester Mackey on compression and bias correction of samples.
- Adobe Inc, San Francisco, CA, Research Intern** *2021 Summer*  
Worked with Noam Aigerman and Vladmir G. Kim on implicit-function-based symmetry and recurring pattern detection methods.
- Stanford, Geometry Processing Lab, CA, Graduate Research Assistant** *2018-2019*  
Led a research team at Guibas Lab on 3D surface reconstruction (shape completion via symmetric, geometric primitive fitting), in remote collaboration with a research team from Siemens Corporation.
- Rubrik, Inc., Palo Alto, CA, Software Engineering Intern** *2017 Summer*  
Developed a secure and persistent method to access MSSQL from other platforms via Samba and TLS tunnel.
- Intentional Software Corporation, Bellevue, WA, Software Engineering Intern** *2016 Summer*  
Developed a new threading model of the texture cache for the graphics team.
- Facebook, Inc., Menlo Park, CA, Software Engineering Intern** *2015 Summer*  
Redesigned and implemented “profile tiles” on the Facebook web platform to allow a more unified look and feel on the profile page.
- Fangtsun Games, Chengdu, China, Game Developer** *2013-2014*  
Supported the development of a detective story-based indie game rendered in ancient Chinese art style named “shadow play” as a founding member at a local game startup.

## PUBLICATIONS

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### Correctness-Guaranteed Code Generation Via Constrained Decoding

Lingxiao Li, Salar Rahili, Yiwei Zhao  
Conference on Language Modeling (COLM), 2025

### Go-with-the-Flow: Motion-Controllable Video Diffusion Models Using Real-Time Warped Noise

Ryan Burgert, Yuancheng Xu, Wenqi Xian, Oliver Pilarski, Pascal Clausen, Mingming He, Li Ma,

Yitong Deng, [Lingxiao Li](#), Mohsen Mousavi, Michael Ryoo, Paul Debevec, Ning Yu  
Computer Vision and Pattern Recognition (CVPR), 2025, **Oral presentation**

### **Infinite-Resolution Integral Noise Warping for Diffusion Models**

Yitong Deng, Winnie Lin, [Lingxiao Li](#), Dmitriy Smirnov, Ryan Burgert, Ning Yu, Vincent Dedun,  
Mohammad H. Taghavi  
Conference on Learning Representations (ICLR), 2025

### **Debiased Distribution Compression**

[Lingxiao Li](#), Raaz Dwivedi, Lester Mackey  
International Conference on Machine Learning (ICML), 2024

### **Self-Consistent Velocity Matching of Probability Flows**

[Lingxiao Li](#), Samuel Hurault, Justin Solomon  
Conference on Neural Information Processing Systems (NeurIPS), 2023

### **Sampling with Mollified Interaction Energy Descent**

[Lingxiao Li](#), Qiang Liu, Anna Korba, Mikhail Yurochkin, Justin Solomon  
Conference on Learning Representations (ICLR), 2023

### **Learning Proximal Operators to Discover Multiple Optima**

[Lingxiao Li](#), Noam Aigerman, Vladimir G. Kim, Jiajin Li, Kristjan Greenewald, Mikhail Yurochkin,  
Justin Solomon  
Conference on Learning Representations (ICLR), 2023

### **Wasserstein Iterative Networks for Barycenter Estimation**

Alexander Korotin, Vage Egiazarian, [Lingxiao Li](#), Evgeny Burnaev  
Conference on Neural Information Processing Systems (NeurIPS), 2022

### **Do Neural Optimal Transport Solvers Work? A Continuous Wasserstein-2 Benchmark**

Alexander Korotin, [Lingxiao Li](#), Aude Genevay, Justin Solomon, Alexander Filippov, Evgeny Burnaev  
Conference on Neural Information Processing Systems (NeurIPS), 2021

### **Large-Scale Wasserstein Gradient Flows**

Petr Mokrov, Alexander Korotin, [Lingxiao Li](#), Aude Genevay, Justin Solomon, Evgeny Burnaev  
Conference on Neural Information Processing Systems (NeurIPS), 2021

### **Interactive All-Hex Meshing via Cuboid Decomposition**

[Lingxiao Li](#), Paul Zhang, Dmitriy Smirnov, S Mazdak Abulnaga, Justin Solomon  
SIGGRAPH Asia, 2021

### **Continuous Wasserstein-2 Barycenter Estimation without Minimax Optimization**

Alexander Korotin, [Lingxiao Li](#), Justin Solomon, Evgeny Burnaev  
Conference on Learning Representations (ICLR), 2021

### **Continuous Regularized Wasserstein Barycenters**

[Lingxiao Li](#), Aude Genevay, Mikhail Yurochkin, Justin Solomon  
Conference on Neural Information Processing Systems (NeurIPS), 2020

### **Supervised Fitting of Geometric Primitives to 3D Point Clouds**

[Lingxiao Li](#)<sup>\*</sup>, Minhyuk Sung<sup>\*</sup>, Anastasia Dubrovina, Li Yi, and Leonidas Guibas (<sup>\*</sup> equal contribution)  
Computer Vision and Pattern Recognition (CVPR), 2019, **Oral presentation**

## **AWARDS**

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**MIT EECS Frederick C. Hennie III Teaching Award**

*2021*

Recognition of outstanding contribution to departmental teaching

**MIT EECS Great Educator Fellowship**

*2019-2020*

Twelve-month fellowship covering first-year Ph.D. tuition and living expenses	
<b>Stanford Frederick Emmons Terman Engineering Scholastic Award</b>	<i>2018</i>
Awarded to the top 5% graduating seniors in the engineering school	
<b>Stanford CS348B Rendering Competition, Grand Prize</b>	<i>2016</i>
<b>International Collegiate Programming Contest</b>	<i>2014-2015</i>
<i>World finalist</i> representing Stanford, <i>second place</i> in Pacific Northwest regional contest	
<b>Stanford Larry Yung Scholarship</b>	<i>2014-2018</i>
Full tuition coverage for the undergraduate study at Stanford	
<b>Chinese National Olympiad in Informatics, gold medalist</b>	<i>2012</i>
<b>Asia-Pacific Informatics Olympiad, gold medalist</b>	<i>2012</i>