

Tianyu Xie

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Education

Peking University	Bachelor Degree
School of Mathematics	1 Colonada D.C. in Stati

- School of Mathematical Sciences B.S. in Statistics
- National School of Development · B.A. in Economics
- GPA: 3.77/4.0; Ranking: 4/38; Selected into the "Top Talent Program in Basic Disciplines" of MOE.

Peking University | Ph.D. Student

- School of Mathematical Sciences \cdot Statistics
- Research Interests: Bayesian Inference; Generative Models; Computational Biology.

Publications

- ARTree: A Deep Autoregressive Model for Phylogenetic Inference
 <u>Tianyu Xie</u>, Cheng Zhang.
 <u>In Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS 2023, spotlight).
 </u>
- Hierarchical Semi-Implicit Variational Inference with Application to Diffusion Model Acceleration Longlin Yu^{*}, <u>Tianyu Xie^{*}</u>, Yu Zhu^{*}, Tong Yang, Xiangyu Zhang, Cheng Zhang. In Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS 2023).
- Improving Tree Probability Estimation with Stochastic Optimization and Variance Reduction <u>Tianyu Xie*</u>, Musu Yuan*, Minghua Deng, Cheng Zhang. <u>Under review for Computational Statistics & Data Analysis.</u> 2023.

Awards

• Merit Student Peking University	2018 & 2022 & 2023	
· Merre Student - Feasing	2010 @ 2022 @ 2020	
• Excellent Student Leader Peking University	2019	
• Excellent Student Leader Pacesetter Peking University	2020	
Excellent Graduate Peking University	2021	
Freshman Scholarship Peking University	2017	
May Fourth Scholarship Peking University	2018	
Leo Koguan Scholarship Peking University	2020	
NeurIPS Scholar Award NeurIPS	2023	
Competitions		
• 11th National College Students Mathematical Competition (Final)	First Prize 2021	

- Contemporary Undergraduate Contest in Mathematical Modeling Second Prize 2019
- 11th&12th National College Students Mathematical Competition First Prize 2019 & 2021

Internship

Research Institute, Megvii Technology Inc.

- Project: Accelerated Sampling Algorithms of Diffusion Models (NeurIPS 2023).
- Project: Flow Matching on Constrained Domains (in progress).

Academic Reports

- 1st Conference on Mathematical Frontiers for Graduates Peking University, Beijing 2023.10
- 9th National Forum on Statistics for Graduates Renmin University of China, Beijing 2023.11



2017.09 - 2021.07

2021.09 -

2022.12 -