

EDUCATION

Department of Computer Science, ETH Zurich	Zurich, Switzerland
<i>Ph.D. in Theoretical Computer Science</i>	Sep 2020 – Sep 2025
<ul style="list-style-type: none"> • Advisor: Prof. David Steurer • Research focus: robust graph clustering, diffusion sampling, differential privacy, and combinatorial optimization 	
Department of Mathematics, ETH Zurich	Zurich, Switzerland
<i>M.Sc. in Computational Science and Engineering(Robotics track)</i>	Sep 2017 – Feb 2020
<ul style="list-style-type: none"> • GPA: 5.63/6.00 • Courses: Numerical PDEs, Machine learning, High performance computing 	
Department of Physics, Nanjing University	Nanjing, China
<i>B.Sc. in Physics (Condensed Matter)</i>	Sep 2013 – Jun 2017
<ul style="list-style-type: none"> • GPA: 4.55/5.00, ranking: 11/211 	

SELECTED PUBLICATIONS

1. **Estimating Rank-One Spikes from Heavy-Tailed Noise via Self-Avoiding Walks.** *NeurIPS (Spotlight)*, 2020. With Samuel B.Hopkins and David Steurer, developed efficient PCA algorithms with optimal statistical guarantees even under heavy-tailed noise.
2. **Robust Recovery for Stochastic Block Models.** *FOCS*, 2021. With Tommaso d’Orsi, Rajai Nasser, David Steurer, developed the first robust algorithm for clustering in stochastic block model under optimal conditions.
3. **Fast Algorithm for Overcomplete Order-3 Tensor Decomposition.** *COLT*, 2022. With Tommaso d’Orsi, Chih-Hung Liu, Stefan Tiegel, David Steurer, developed a simple and fast algorithm matching guarantees of previous theoretical algorithm.
4. **Reaching Kesten–Stigum Threshold in the Stochastic Block Model under Node Corruptions.** *COLT*, 2023. With Yiding Hua, Tommaso D’Orsi and David Steurer, developed the first algorithm achieving Kesten–Stigum threshold in stochastic block model under node corruptions.
5. **Private Graphon Estimation via Sum-of-Squares.** *STOC*, 2024. With Hongjie Chen, Tommaso d’Orsi, Yiding Hua, Chih-Hung Liu, David Steurer, developed first differentially private algorithm for learning stochastic block model.
6. **Private Edge-Density Estimation for Random Graphs: Optimal, Efficient, and Robust.** *NeurIPS (Spotlight)*, 2024. With Hongjie Chen, Yiding Hua, David Steurer, developed the first differentially private algorithms for learning random graphs with optimal guarantees.
7. **Computational–Statistical Gaps for Improper Learning in Sparse Linear Regression.** *COLT*, 2024. With Rares-Darius Buhai, Stefan Tiegel, provide evidence for information-computation tradeoffs in prediction under sparse linear models.
8. **Low-Degree Conjecture Implies Sharp Computational Thresholds in the Stochastic Block Model.** *Neurips(Spotlight)*, 2025, with Yiding Hua, Lucas Slot, David Steurer
9. **Improved Robust Estimation for Erdos-Renyi Graphs: The Sparse Regime and Optimal Breakdown Point** *Neurips*, 2025, with Hongjie Chen, Yiding Hua, Stefan Tiegel

CODING

Programming: Python (proficient), C++ (proficient), Pytorch (proficient), Sklearn (proficient).

Selected project: Fake Voice Detection Using Neural Networks: code available on Github, implemented the fake-voice generation and detection based on neural-network.

**AWARDS
AND
HONORS**

- **ETH Scholarship** 2019
- **Excellent Graduate**, Nanjing University 2017
- **Meritorious Winner**, Interdisciplinary Modelling Contest 2016
- **Samsung Scholarship**, Nanjing University 2016