

# YUANHE ZHANG

Department of Statistics, University of Warwick, UK

Email : [yuanhe.zhang@warwick.ac.uk](mailto:yuanhe.zhang@warwick.ac.uk) Homepage : <https://yuanhez.github.io>

## Education

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### Univeristy of Warwick

Department of Statistics

Sept. 2024 - Present  
Coventry, United Kingdom

- Ph.D. in Statistics
- Supervisor: [Dr. Fanghui Liu](#) and [Dr. Thomas Berrett](#)
- Fully Funded by Chancellor's International Scholarship

### Univeristy of Warwick

Department of Statistics

Sept. 2020 - Jun. 2024  
Coventry, United Kingdom

- Integrated Bachelor and Master in Mathematics and Statistics (MMathStat)
- High 1st class, 82% average across four years
- Top 1 student of 23-24 fourth year cohort, 92.4% average.

## Research Experience

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### Univeristy of Tokyo

RIKEN Center for Advanced Intelligence Project

April. 2026 - Present  
Tokyo, Japan

- Exchange Student Trainee
- Deep Learning Theory Team
- Host: [Prof. Taiji Suzuki](#)

## Publications

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### Preprints and submitted papers

**Yuanhe Zhang**, Yuekai Sun, Taiji Suzuki, Jason D. Lee, Fanghui Liu. *LeanMarathon: Toward Reliable AI Co-Mathematicians through Long-Horizon Lean Autoformalization*. 2026. [Code]

### Published and accepted papers

**Yuanhe Zhang**, Jason D. Lee, Fanghui Liu. *Statistical Learning Theory in Lean 4: Empirical Processes from Scratch*. International Conference on Machine Learning (ICML), 2026.[Code]

**Yuanhe Zhang**, Ilja Kuzborskij, Jason D. Lee, Chenlei Leng, Fanghui Liu. *DAG-Math: Graph-of-Thought Guided Mathematical Reasoning in LLMs*. International Conference on Learning Representations (ICLR), 2026. [Code]

**Yuanhe Zhang**, Fanghui Liu, and Yudong Chen. *LoRA-One: One-Step Full Gradient Could Suffice for Fine-Tuning Large Language Models, Provably and Efficiently*. International Conference on Machine Learning (ICML), 2025. (Oral) [Code][Website]

David Huk, **Yuanhe Zhang**, Mark Steel, and Ritabrata Dutta. *Quasi-Bayes meets Vines*. Advances in Neural Information Processing Systems (NeurIPS), 2024. [Code]

## Selected Honors and Awards

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<b>Statistics Prize</b> (£500)	<i>2024</i>
◦ Awarded to the top 1 student in the cohort	
<b>Academic Excellence Prize</b> (£400)	<i>2023</i>
◦ Awarded to the top 10 student in the cohort	
<b>Statistics Senior Scholarship</b> (£2600)	<i>2023</i>
◦ Awarded to the student with high distinction	
<b>Warwick Undergraduate Research Support Scheme (URSS)</b> (£1500)	<i>2023</i>
◦ Funded summer undergraduate research by Warwick	

## Teaching

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Graduate Teaching Assistant, University of Warwick

- [CS416 Optimization methods](#) (2024-2025 & 2025-2026)

## Professional Service

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- Conference Reviewers: ICML26'
- Workshop Volunteer
- ◊ NeurIPS 2024 workshop: [Fine-Tuning in Modern Machine Learning: Principles and Scalability](#)