ZHONGLIN XIE, PH.D. CANDIDATE

Peking University

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⌂ Room 312, Building 21, Yiheyuan Road 5, Haidian District, Beijing, China.

EDUCATION

09/2021 – Now ◇ **Ph.D. Computational Mathematics**
Beijing International Center for Mathematical Research, Peking University.
Member of **The Elite Ph.D. Program in Applied Mathematics**.
Advisor: Prof. Zaiwen Wen.

09/2017 – 07/2021 ◇ **B.Sc. Computational Mathematics**
School of Mathematical Sciences, Peking University.
Member of **The Elite Program of Applied Mathematics and Statistics for Undergraduates**.

09/2018 – 07/2021 ◇ **B.Econ. Economics**
National School of Development, Peking University.

PUBLICATIONS

Preprint

1. **Xie, Z.**, Lu, H., Wu, Y., Ren, C., Chen, Y., & Wen, Z. (2025). OptMATH: A Scalable Bidirectional Data Synthesis Framework for Optimization Modeling. (Under review at ICML 2025). arXiv: 2502.11102 [cs.AI]. Retrieved from 🔗 https://arxiv.org/abs/2502.11102

2. **Xie, Z.**, Yin, W., & Wen, Z. (2024). ODE-Based Learning to Optimize. (Under review at Math. Prog.) arXiv: 2406.02006 [math.OC]. Retrieved from 🔗 https://arxiv.org/abs/2406.02006

Journal Articles

1. Wang, J., Zhang, F., **Xie, Z.**, Wen, Z., & Zhang, G. (2021). Joint Bandwidth Allocation and Path Selection in WANs with Path Cardinality Constraints. *Journal of Communications and Information Networks, 6*(3), 237–250. 🔗 doi:10.23919/JCIN.2021.9549120

Conference Proceedings

1. Zhang, Y., Chen, Y., **Xie, Z.**, Xu, H., Wen, Z., Lin, Y., & Yu, B. (2023, July). LRSDP: Low-Rank SDP for Triple Patterning Lithography Layout Decomposition. In *ACM/IEEE design automation conference (DAC)*, San Francisco, CA.

TEACHING

2024, Summer ◇ TA, Modern Optimization (PKU Summer School on Applied Mathematics, Lectured by Professor Yurii Nesterov).

2023, Fall ◇ TA, Convex Optimization.

2022, Fall ◇ TA, Convex Optimization.

TEACHING (continued)

2022, Summer	◇ TA, Deep Learning Optimization Theory (PKU Summer School on Applied Mathematics).
2022, Spring	◇ TA, Learning by Research.
2021, Fall	◇ TA, Advanced Mathematics A (I).

INTERNSHIP

08/2020-10/2020	◇ Theory Lab, Huawei Technologies Co. Ltd., Beijing, China.

SELECTED AWARDS

2024	◇ Presidential Scholarship, Peking University.
2023	◇ Presidential Scholarship, Peking University.
	◇ Third-Class Scholarship, Peking University.
2022	◇ Ubiquant Scholarship, Peking University.