

WEI LIN

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Education

The Chinese University of Hong Kong, Hong Kong SAR <i>Ph.D. in Computer Science and Engineering Supervised by Prof. Hong Xu</i>	08.2023 - current
Beihang University, Beijing, China <i>B.Eng in Mechanical Engineering GPA:3.82/4 Weighted Score:91.5/100</i> Rank 0.3% in the university entrance exam	09.2019 – 06.2023

Research Interest

Learning to Optimize: Using deep learning to accelerate optimization algorithms.

Publication List

- **W Lin**, Q Song, H Xu. "Adaptive Coordinate-Wise Step Sizes for Quasi-Newton Methods: A Learning-to-Optimize Approach." arXiv preprint.
- Q Song, **W Lin**, J Wang, H Xu. "Towards Robust Learning to Optimize with Theoretical Guarantees." IEEE/CVF CVPR, 2024.
- K Mo, X Li, **W Lin**, H Xu, Z Li, C Xue. "Personalized Federated Learning with Auction-Based Client Selection and Edge-Enhanced Model Accuracy." IEEE IJCNN, 2024.
- Y Zhang*, **W Lin***, S Chen, Q Song, J Lu, Y Shao, B Yu, H Xu. "Fed2Com: Towards Efficient Compression in Federated Learning." IEEE ICNC, 2024.
- Y Ding, J Wan, **W Lin**, K Wang. "Coordinated last-mile deliveries with trucks and drones: A comparative study of operational modes." Journal of the Air Transport Research Society, 2024.
- S Wandelt, **W Lin**, X Sun, M Zanin. "From random failures to targeted attacks in network dismantling." Reliability Engineering & System Safety, 2021.
- **W Lin**, S Wandelt, X Sun. "Efficient network dismantling through genetic algorithms." Soft Computing, 2021.

Work Experience

Huawei Technologies Co., Ltd., Beijing, China <i>Visiting Student</i> <ul style="list-style-type: none">• Project: Communication efficient federated learning.• Advisor: Dr. Jiaxun Lu	02.2023 - 06.2023
Hong Kong University of Science and Technology (Guangzhou), Guangzhou, China <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">• Project: Understanding Non-pharmaceutical Interventions on Individual Mobility via a Deep Geographic-marked Point Process.• Advisor: Prof. Jia Li	03.2022 - 12.2022
The Chinese University of Hong Kong, Hong Kong <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">• Project: Hyperbolic Graph Neural Networks for Recommendation System.• Advisor: Dr. Menglin Yang	03.2022 - 08.2022
Beihang University, Beijing, China <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">• Project: Network Dismantling.• Advisor: Prof. Sebastian Wandelt	06.2021 - 02.2022

Contest Experience

Finalist in Interdisciplinary Contest In Modeling <ul style="list-style-type: none">• Project: Unveil the Mystery behind Musical Evolution.• Advisor: Prof. Sebastian Wandelt	2021
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Teaching Assitance

CUHK, ENGG1120, Linear Algebra for Engineers	Spring 2024
CUHK, ENGG2760, Probability for Engineers	Fall 2023
BUAA, Computer science and Programming	Fall 2021
BUAA, Data Management and Artificial Intelligent	Spring 2021

Scholarship/Award

2023-2027 Postgraduate Studentship, CUHK
2023 Excellent Graduate, BUAA
2019-2020, 2020-2021, 2021-2022 Learning Excellent Scholarship, BUAA
2019-2020 Excellent Student, BUAA
2020-2021, 2021-2022 Merit student, BUAA
2020-2021 Discipline Competition Scholarship, BUAA
2020-2021, 2021-2022 Social Work Outstanding Scholarship, BUAA