

Zekai Wang

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Wuhan University, China

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EDUCATION

2021.9–2024.6 **M.S. in Computer Science**, Wuhan University, China; Supervisor: Weiwei Liu
2017.9–2021.6 **B.S. in Computer Science, Rank: 13/339(3.9%)**, Wuhan University, China

EXPERIENCE

2022.9–2023.6 **Research Intern**, Sea AI Lab, Singapore; Supervisor: Tianyu Pang, Min Lin
2020.1–2020.7 **International Exchange**, University of California, Berkeley, U.S.A.
2019.7–2019.8 **Visiting Student**, National University of Singapore, Singapore

RESEARCH AREAS

Trustworthy machine learning, Multi-task learning

PUBLICATIONS

Conference Proceedings

- 2023 Better Diffusion Models Further Improve Adversarial Training
 Zekai Wang*, Tianyu Pang*, Chao Du, Min Lin, Weiwei Liu, Shuicheng Yan
 International Conference on Machine Learning (**ICML**)
- 2022 Robustness Verification for Contrastive Learning
 Zekai Wang, Weiwei Liu
 International Conference on Machine Learning (**ICML**), **Long Presentation (top 2%)**
- On the Tradeoff Between Robustness and Fairness
 Xinsong Ma, **Zekai Wang**, Weiwei Liu
 Annual Conference on Neural Information Processing Systems (**NeurIPS**)
- MetaWeighting: Learning to Weight Tasks in Multi-Task Learning
 Yuren Mao, **Zekai Wang**, Weiwei Liu, Xuemin Lin, Pengtao Xie
 Findings of Association for Computational Linguistics (**ACL Findings**)
- 2021 BanditMTL: Bandit-based Multi-task Learning for Text Classification
 Yuren Mao, **Zekai Wang**, Weiwei Liu, Xuemin Lin, Wenbin Hu
 Annual Meeting of the Association for Computational Linguistics (**ACL**)
- Accelerating Mems Design Process Through Machine Learning from Pixelated Binary Images
 Ruiqi Guo, Renxiao Xu, **Zekai Wang**, Fanping Sui, Liwei Lin
 International Conference on Micro Electro Mechanical Systems (**MEMS**)

Journal Proceedings

- 2022 Task Variance Regularized Multi-Task Learning
Yuren Mao, **Zekai Wang**, Weiwei Liu, Xuemin Lin, Wenbin Hu
IEEE Transactions on Knowledge and Data Engineering (**TKDE**)
- Deep learning for non-parameterized MEMS structural design
Ruiqi Guo, Fanping Sui, Wei Yue, **Zekai Wang**, Sedat Pala, Kunying Li, Renxiao Xu, Liwei Lin
Microsystems & Nanoengineering

Workshop Proceedings

- 2022 Robustness Verification Framework for Self-supervised Contrastive Learning
Zekai Wang, Weiwei Liu
ICML Workshop on Formal Verification of Machine Learning (**WFMV**)

GRANTS AND AWARDS

Awards and Honors

- 2022 Academic Innovation Scholarship, Wuhan University
- 2020 “Daoyu Liu” University President Scholarship, Wuhan University
- 2018–2020 Scholarship of Wuhan University & Advanced Individual

Projects and Competitions

- 2019–2021 Planning Project of Innovation and Entrepreneurship Training of National Undergraduate, Team Leader
- 2020.8 Chinese undergraduate IoT design competition, Provincial First Prize
- 2020.8 Chinese undergraduate computer design contest, National Third Prize

ACADEMIC SERVICES

Journal Reviewer

IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

Conference Reviewer

- 2022–2023 Advances in Neural Information Processing Systems (NeurIPS)
- 2023 The International Conference on Machine Learning (ICML)
- 2023 International Conference on Learning Representations (ICLR)

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