

# Zekai Wang

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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; Mentor: 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

- 2023 RVCL: Evaluating the Robustness of Contrastive Learning via Verification  
**Zekai Wang**, Weiwei Liu  
Journal of Machine Learning Research (**JMLR**, **minor revision**)
- Task Variance Regularized Multi-Task Learning  
Yuren Mao, **Zekai Wang**, Weiwei Liu, Xuemin Lin, Wenbin Hu  
IEEE Transactions on Knowledge and Data Engineering (**TKDE**)
- 2022 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 (**WFMML**)

## GRANTS AND AWARDS

### Honors and Scholarships

- 2023 National Scholarship for Graduate Excellence
- 2023 Academic Excellence Scholarship, First Class, Wuhan University
- 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 Chinese Undergraduate IoT Design Competition, Provincial First Prize
- 2019, 2020 Chinese Undergraduate Computer Design Contest, National Third Prize
- 2018 Chinese Undergraduate Computer Design Contest, National Second Prize

## ACADEMIC SERVICES

### Journal Reviewer

IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

### Conference Reviewer

NeurIPS (2022, 2023), ICML (2023), ICLR (2023, 2024), AAAI (2024)