

Zhipeng Wei

Postdoc at International Computer Science Institute
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WORK EXPERIENCE

International Computer Science Institute, UC Berkeley

Postdoc Research Fellow

Advisor: Prof. N. Benjamin Erichson

Berkeley, USA

Nov.2024 - present

School of Computer Science, Fudan University

Research Assistant

Advisor: Prof. Chen Jingjing and Jiang Yu-Gang

Shanghai, China

Jul.2020 – Aug.2021

School of Computing, National University of Singapore

Visiting Research Scholar

Advisor: Prof. Chua Tat Seng

Singapore

Oct.2018 – Jun.2019

EDUCATION

Fudan University

Ph.D. in Computer Science

- Thesis: Adversarial Robustness in Deep Visual Models
- Supervisor: Prof. Chen Jingjing and Jiang Yu-Gang

Shanghai, China

Sep.2021- Jun.2024

Jilin University

M.S. in Computer Science

- Supervisor: Prof. Zhou Fengfeng

Changchun, China

Sep.2017 – Jun.2020

Jilin University

B.S. in Biological Science

Changchun, China

Sep.2013 - Jun.2017

RESEARCH INTERESTS

My research interests include advancing the robustness and trustworthiness of generative foundation models, with a focus on ensuring reliable, ethical, and resilient model outputs.

TEACHING EXPERIENCE

Fudan University

Shanghai, China

Teaching Assistant

2021 - 2023

- Taught over 50 undergraduate students in the computer vision course, delivering 135-minute sessions twice per semester, which included OpenCV and PyTorch tutorials.

Fudan University

Shanghai, China

Mentoring

2021 - 2024

- Assisted in mentoring a team focused on adversarial robustness, with published papers in AAAI, ACM MM, and ICME.

SELECTED AWARDS AND HONORS

Shanghai Outstanding Graduates

Jun.2024

Outstanding Master's Thesis of Jilin Province

Dec.2022

China National Scholarship of Fudan University

Oct.2022

Outstanding Graduates of Jilin University

Jun.2020

Outstanding Master's Thesis of Jilin University

Jun.2020

ACADEMIC SERVICE

Reviewer for IEEE TIP; TNNLS; TCSVT; TDSC; ACM MM 2022; AAAI 2023, 2024, 2025; CVPR 2023, 2024; IJCAI 2023; ICCV 2023; NIPS2023, 2024; ICLR 2024, 2025; ECCV 2024.

PUBLICATIONS

1. Wenzhuo Xu, Kai Chen, Ziyi Gao, **Zhipeng Wei**, Jingjing Chen, and Yu-Gang Jiang, "Highly transferable diffusion-based unrestricted adversarial attack on pre-trained vision-language models", In: Proceedings of the 32nd ACM International Conference on Multimedia. 2024
2. Ziyi Gao, Kai Chen, **Zhipeng Wei**, Tingshu Mou, Jingjing Chen, Zhiyu Tan, Hao Li, and Yu-Gang Jiang, "ReToMe-VA: Recursive Token Merging for Video Diffusion-based Unrestricted Adversarial Attack", In: Proceedings of the 32nd ACM International Conference on Multimedia. 2024
3. Chao Gong, Kai Chen, **Zhipeng Wei**, Jingjing Chen, and Yu-Gang Jiang, "Reliable and efficient concept erasure of text-to-image diffusion models", In: Proceedings of the 32nd ACM International Conference on Multimedia. 2024

4. Yan Jiang, Guisheng Yin, Ye Yuan, Jingjing Chen, and **Zhipeng Wei**, “Cross-Point Adversarial Attack Based on Feature Neighborhood Disruption Against Segment Anything Model”. In: 2024 IEEE International Conference on Multimedia and Expo (ICME). IEEE. 2024, pp. 1-6
5. **Zhipeng Wei**, Jingjing Chen, Zuxuan Wu, and Yu-Gang Jiang, “Adaptive Cross-Modal Transferable Adversarial Attacks from Images to Videos”. In: IEEE Transactions on Pattern Analysis and Machine Intelligence. doi: 10.1109/TPAMI.2023.3347835.
6. **Zhipeng Wei**, Jingjing Chen, Micah Goldblum, Zuxuan Wu, Tom Goldstein, Yu-Gang Jiang and Larry S. Davis, “Towards Transferable Adversarial Attacks on Image and Video Transformers”. In: IEEE Transactions on Image Processing. vol. 32, pp. 6346-6358, 2023.
7. Kai Chen, **Zhipeng Wei**, Jingjing Chen, Zuxuan Wu, and Yu-Gang Jiang. “GCMA: Generative Cross-Modal Transferable Adversarial Attacks from Images to Videos.” In: Proceedings of the 31th ACM International Conference on Multimedia. 2023
8. Jingjing Chen*, Linhai Zhuo*, **Zhipeng Wei**, Hao Zhang, Huazhu Fu, and Yu-Gang Jiang. “Knowledge driven weights estimation for large-scale few-shot image recognition.” In: Pattern Recognition 142 (2023), p. 109668
9. Yiqiang Lv, Jingjing Chen, **Zhipeng Wei**, Kai Chen, Zuxuan Wu, and Yu-Gang Jiang. “Downstream Task-agnostic Transferable Attacks on Language-Image Pre-training Models.” In: 2023 IEEE International Conference on Multimedia and Expo (ICME). IEEE. 2023.
10. **Zhipeng Wei**, Jingjing Chen, Zuxuan Wu, and Yu-Gang Jiang. “Enhancing the Self-Universality for Transferable Targeted Attacks.” In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. 2023, pp. 12281–12290
11. Kai Chen, **Zhipeng Wei**, Jingjing Chen, Zuxuan Wu, and Yu-Gang Jiang. “Attacking video recognition models with bullet-screen comments.” In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 36. 1. 2022, pp. 312–320
12. **Zhipeng Wei**, Jingjing Chen, Zuxuan Wu, and Yu-Gang Jiang. “Cross-modal transferable adversarial attacks from images to videos.” In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. 2022, pp. 15064–15073
13. **Zhipeng Wei**, Jingjing Chen, Zuxuan Wu, and Yu-Gang Jiang. “Boosting the transferability of video adversarial examples via temporal translation.” In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 36. 3. 2022, pp. 2659–2667
14. **Zhipeng Wei**, Jingjing Chen, Micah Goldblum, Zuxuan Wu, Tom Goldstein, and Yu-Gang Jiang. “Towards transferable adversarial attacks on vision transformers.” In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 36. 3. 2022, pp. 2668–2676
15. **Zhipeng Wei**, Jingjing Chen, Hao Zhang, Linxi Jiang, and Yu-Gang Jiang. “Adaptive Temporal Grouping for Black-box Adversarial Attacks on Videos.” In: *Proceedings of the 2022 International Conference on Multimedia Retrieval*. 2022, pp. 587–593

16. **Zhipeng Wei**, Jingjing Chen, Xingxing Wei, et al. “Heuristic black-box adversarial attacks on video recognition models.” In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 34. 07. 2020, pp. 12338–12345
17. Jingjing Chen, Liangming Pan, **Zhipeng Wei**, Xiang Wang, Chong-Wah Ngo, and Tat-Seng Chua. “Zero-shot ingredient recognition by multi-relational graph convolutional network.” In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 34. 07. 2020, pp. 10542–10550
18. **Zhipeng Wei**, Jingjing Chen, Zhaoyan Ming, Chong-Wah Ngo, Tat-Seng Chua, and Fengfeng Zhou. “DietLens-eout: Large scale restaurant food photo recognition.” In: *Proceedings of the 2019 on International Conference on Multimedia Retrieval*. 2019, pp. 399–403

INVITED TALKS

Spotlight, Vision And Learning Seminar (VALSE)	<i>Aug.2022</i>
Speaker, AI TIME PHD-CVPR	<i>Aug.2022</i>
Speaker, AI TIME PHD-AAAI	<i>May.2022</i>