Bing Fan

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Research Interests

- Computer Vision, Video Understanding, Multimedia Forensics

Education

- **Ph.D. in Computer Science and Engineering**, University of North Texas, Denton, TX, USA 2024–Present
  Advisor: Prof. Heng Fan
- **M.S. in Cyberspace Security**, Nanchang University, China 2021–2024
- **B.S. in Software Engineering**, Nanchang University, China 2017–2021

Honors & Awards

- Chinese National Scholarship, 2023

Selected Publications

- Y. Hu*, **B. Fan***, X. Gu, H. Ren, D. Liu, H. Fan, L. Zhang, "Robust Ego-Exo Correspondence with Long-Term Memory," *NeurIPS* 2025. (* co-first authors)
- Y. Zhou, X. He, K. Lin, **B. Fan**, F. Ding, B. Li, "Breaking Latent Prior Bias in Detectors for Generalizable AIGC Image Detection," *NeurIPS* 2025.
- X. He, Y. Zhou, **B. Fan**, B. Li, G. Zhu, F. Ding, "VLForgery Face Triad: Detection, Localization and Attribution via Multimodal Large Language Models," *NeurIPS* 2025.
- **B. Fan**, Y. Feng, Y. Tian, J. C. Liang, Y. Lin, Y. Huang, H. Fan, "PRVQL: Progressive Knowledge-Guided Refinement for Robust Egocentric Visual Query Localization," *ICCV*, 2025.
- **B. Fan**, F. Ding, G. Zhu, J. Huang, S. Kwong, P. Atrey, S. Lyu, "Generating Higher-Quality Anti-Forensics DeepFakes with Adversarial Sharpening Mask," *ACM Transactions on Multimedia Computing, Communications and Applications*, vol. 21, 2025.
- **B. Fan**, S. Hu, F. Ding, "Synthesizing Black-Box Anti-Forensics DeepFakes with High Visual Quality," in *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2024.
- F. Ding, **B. Fan**, Z. Shen, K. Yu, G. Srivastava, K. Dev, S. Wan, "Securing Facial Bioinformation by Eliminating Adversarial Perturbations," *IEEE Transactions on Industrial Informatics*, vol. 19, no. 5, pp. 6682–6691, 2022.