

Zeyu Yan

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Education

Xidian University, Xi'an, China

Sept. 2022 – Present

B.S. in Computer Science and Technology (Elite Class)

- GPA: 3.9/4.0, Weighted Average: 92.34/100
- Ranking: 2/22 (Class), 6/471 (Department)
- Core Courses: Mathematical Logic(100), Computer Organization (99), Introduction of Computer and Program Design (99), Probability Theory and Mathematical Statistics (97), Computational Complexity Theory (96), Computer Networks (96), Data Structure and Algorithm (95), Java Programming (95)

Research Experience

Agricultural Yield Estimation with Remote Sensing

Sept. 2024 – Apr. 2025

Core Member Under Faculty Supervision

- Proposed DFYP framework for remote sensing yield prediction with dynamic CNN-ViT fusion and edge-aware convolution for multi-scenario feature optimization and distribution adaptation
- Model significantly outperformed existing methods on MODIS and Sentinel-2 datasets, research submitted as **first student author** to top computer vision conference:
- J. Zhang, **Zeyu Yan**, et al. "DFYP: Dynamic CNN-ViT Fusion with an Adaptive Operator Library for Robust Crop Yield Prediction." *ICCV*, 2025, CCF-A, under review.

ISN Key Laboratory Undergraduate Training Program

Jun. 2024 – May 2025

Project Member Vertical Federated Learning Security

- Researched label inference attack risks in vertical federated learning, developed comprehensive defense system integrating fake gradients and label anonymization
- Validated on six public datasets, won multiple competition awards, and published as **first author**:
- **Zeyu Yan**, Y. Yao, X. Wen, et al. "LADSG: Label-Anonymized Distillation and Similar Gradient Substitution for Label Privacy in Vertical Federated Learning" *CollaborateCom*, 2025, CCF-C, under review.

Lingfei Innovation Program

Jan. 2024 – Sept. 2024

Project Member Driver Monitoring System

- Developed facial authentication for ARM-based Driver Monitoring System to prevent unauthorized access
- Implemented HOG+SVM detection, cascade regression landmarks and optimized ResNet feature extraction
- Achieved **99% accuracy** at **20-25 FPS**; successfully deployed in commercial vehicles

Honors and Awards

- National Scholarship;
- Honorable Mention, Mathematical Contest in Modeling (MCM)
- National-level Project, National College Student Innovation and Entrepreneurship Training Program
- Second Prize (Northwest Region), National Collegiate Software System Security Competition
- Provincial First Prize, Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)
- Provincial Silver Award, China International College Students' Innovation Competition
- Provincial Third Prize, National College Student Statistical Modeling Competition

Miscellaneous

- Research Interests: **Computer Vision, Data Mining, Deep Learning**
- Languages: English (CET-6 489/710), Mandarin (Native)
- Programming: Python, C/C++, Java, MATLAB
- Blog: <https://oneflshy.github.io/>