

# Zeyu Yan

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## Education

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**Xidian University**, Xi'an, China

Sept. 2022 – Present

B.S. in Computer Science and Technology

Top-notch Student Training Program (TSTP) in Basic Disciplines, Ministry of Education of China

- **GPA:** 3.9/4.0 (Weighted Average: 92.1/100)
- **Ranking:** 5/30 (Top-notch Class), 10/470 (Department)

## Research Experience

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**Crop Yield Estimation Based on Remote Sensing Images**

Sept. 2024 – Apr. 2025

*Core Member* Supervised by Prof. Juli Zhang

Proposed the **DFYP** framework (Dynamic CNN-ViT Fusion with Edge-aware Convolution), significantly improving crop yield prediction accuracy from remote sensing images; resulted in two publications.

**ISN Key Laboratory Excellent Undergraduate Training Program**

Jun. 2024 – May 2025

*Project Member* Vertical Federated Learning Security

Designed a novel privacy-preserving approach **LADSG** for vertical federated learning, integrating fake gradients and label anonymization to counter label inference attacks; demonstrated effectiveness on six public datasets, earned multiple awards, and led to one publication.

**Lingfei Innovation Program**

Jan. 2024 – Sept. 2024

*Project Member* Driver Monitoring System

Developed facial authentication for ARM-based driver monitoring using HOG+SVM, cascade regression, and optimized ResNet; achieved 99% accuracy at 20-25 FPS and deployed commercially.

## Publications

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- **Zeyu Yan**, et al. “DFYP: Dynamic CNN and ViT Fusion with Adaptive Sobel-Convolution for Enhanced Crop Yield Prediction.” *ICML Workshop NewInML*, 2025, CCF-A, accepted.
- J. Zhang, **Zeyu Yan**, et al. “DFYP: A Dynamic Fusion Framework with Spectral Channel Attention and Adaptive Operator learning for Crop Yield Prediction.” *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, IF=7.5, under review.
- **Zeyu Yan**, Y. Yao, et al. “LADSG: Label-Anonymized Distillation and Similar Gradient Substitution for Label Privacy in Vertical Federated Learning.” *EAI International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom)*, 2025, CCF-C, under review.

## Honors and Awards

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- National Scholarship; Outstanding Communist Youth League Member;
- Honorable Mention, Mathematical Contest in Modeling (MCM)
- National-level Project, National College Student Innovation and Entrepreneurship Training Program
- ISN Key Laboratory Excellent Undergraduate Training Program Outstanding Project Completion Award
- 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

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- Research Interests: **Computer Vision, Data Mining, Federated Learning, Deep Learning**
- Languages: English (CET-6 489/710), Mandarin (Native)
- Programming: Python, C/C++, Java, MATLAB
- Blog: <https://onef1shy.github.io/>