

# Xiaodi Yu

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## Education

- Zhongnan University Of Economics and Law**, Wuhan, China *Sep. 2022 – May. 2026*  
B.Eng., Computer Science
- **GPA:** 3.72/4.0    **Average Score:** 89.39/100
  - **Core Courses:** Programming(98), Data Structure(91), Discrete Mathematics(93), Advanced Mathematics(85), Artificial Intelligence(92)
  - **Awards:**
    - Academic Scholarship (2 consecutive years), Second & Third class, 2022 - 2024
    - Outstanding Youth League Member & Excellent Class Leader , 2023 - 2024
    - Provincial Innovation and Entrepreneurship Program Award, 2023-2024
  - **Research Interests:** Computer Vision, Machine Learning, Deep Learning, Graph Learning, Multimodal Learning, Images Processing, Remote Sensing

## Publication

- **X. Yu, Y. Cai, Z. Zhang, X. Liu, F. Li(2025).** "Uncertainty-Aware Deep Anchor Graph Learning for *Multimodal Remote Sensing Image Clustering*," *The 8th Chinese Conference on Pattern Recognition and Computer Vision (PRCV 2025)*. (Accepted).

## Research Experience

- Uncertainty-Aware Multimodal Clustering for Remote Sensing Images** *Apr. 2025 – Present*  
*Independent Research | Supervisor: Prof. Yaoming Cai*
- Designed a UDAG framework for clustering HS and LiDAR images without supervision.
  - Proposed an uncertainty-aware fusion strategy that adaptively weights modalities based on uncertainty.
  - Incorporated total variation regularization to preserve spatial smoothness in clustering results.
  - Achieved state-of-the-art performance on three datasets with significantly improved accuracy by 4.6% - 18.4%.
  - One paper submitted to PRCV.
- Deep Anchor Graph Clustering with Learnable Anchors** *Feb. 2025 – Present*  
*Research Assistant | Supervisor: Prof. Yaoming Cai*
- Assisted in building a neural network for automatic anchor generation in clustering.
  - Tuned model parameters and conducted experiments on UCI datasets (Wine, Iris).
  - improved clustering accuracy by 10–12% through training strategy refinement.
  - Participated in result analysis and paper writing for publication.
- End-to-End Image Clustering via Superpixel-Based Representation** *Feb. 2025 – May. 2025*  
*Independent Research | Supervisor: Prof. Yaoming Cai*
- Designed and implemented an end-to-end image clustering network based on superpixel segmentation.
  - Extracted deep features with ResNet and generated region representations via a custom superpixel module.
  - Developed a CNN-based similarity prediction module to compute pixel-neighbor similarity maps.
  - Integrated deep embedding clustering techniques to improve unsupervised image clustering.

## Project Experience

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### The Design of a patient registration system in Java

Oct. 2023 – Dec. 2023

- Designed and implemented a patient registration system in Java using Servlet, JSP, and MySQL, covering user management, registration records, and role-based login.
- Tools Used: JDK, Tomcat, MySQL

### The Design of Web front-end three-level page

Feb. 2024 – May. 2024

- Built a responsive three-tier front-end web page using HTML, CSS, and JavaScript, focusing on layout design and interactive event handling.
- Tools Used: HTML, CSS, JavaScript

### Visualization of college students' employment situation and data

Mar. 2024 – Jun. 2024

- Collected and visualized job-related data for college students using Python, including web scraping, data preprocessing, and graphical analysis with Matplotlib.
- Tools Used: Python

## Academic Experience

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### Chinese Congress on Image and Graphics (CCIG 2025)

May. 2025

Attendee

- Attended keynote talks and technical sessions on computer vision and image understanding.

## Technologies

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**Languages:** Mandarin(native), English(working efficiency, IELTS in preparation)

**Programming:** Python(Proficient), LaTeX(Proficient), C++(Familiar), Java(Familiar)