

Chaoyu Wen

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Research Overview

My research focuses on Bayesian deep learning, trustworthy vision-language model (VLM), and applications of uncertainty machine learning. It includes the following topics: (1) probabilistic uncertainty modeling for large-scale VLMs; (2) fast and reliable approximate inference techniques for Bayesian neural networks; and (3) applications of uncertainty machine learning in drug discovery and medical image analysis scenarios. In addition, my research also covers transfer/meta-learning, evidential learning, and continual/active learning.

Education

Yunnan University

Yunnan, China

- **Ph.D. student**

Sept 2023 –

Information Science and Engineering School

(Expected July 2029)

Supervisor: **Prof. Jin Li**

- ◇ Combined Master's-Ph.D. Program

- ◇ GPA overall 3.59/4.0 (major 1/14)

- **B.S. in Software Engineering**

July 2022

Software School

- ◇ Exam-exempt Master's admission Recommendation

- ◇ Graduated with distinction (10%), GPA overall 3.36/4.0

Publications

* indicates equal contribution

[1] **Chaoyu Wen**, Chunyan Li, Jin Li. 2025. Contrastive Prior Enhances the Performance of Bayesian Neural Network-based Molecular Property Prediction. *Expert Systems with Applications*. [[Paper](#)][[Code](#)][[Link](#)]

[2] **Chaoyu Wen**, Li Cai, Chunyan Li, Jin Li. 2025. TrustworthyCPI: Trustworthy Compound-Protein Interaction Prediction. *IEEE Transactions on Computational Biology and Bioinformatics*. [[Paper](#)][[Code](#)][[Link](#)]

[3] Tong Liu*, **Chaoyu Wen***, Qiangwei Xiong, Jin Li. 2025. Meta transfer evidence deep learning for trustworthy few-shot classification. *Expert Systems with Applications*. [[Paper](#)][[Code](#)][[Link](#)]

Patents

- **A trustworthy few-shot image classification method.** CN117079017A. (Granted) 2025
- **A trustworthy drug-target interaction prediction method.** CN116884474A. (Under substantive examination) 2023 - 2025

Research Grant

- **A generative data-driven prior learning method for Bayesian neural networks** 2025 –
(Principal Investigator) (Expected 2027)
Education Science Research Fund Project of Yunnan Provincial Department
- **Contrastive learning Bayesian neural network for molecular property prediction** 2023 - 2025
(Principal Investigator)
Graduate Research Fund Key Project of Yunnan University
- **A trustworthy compound-protein interaction prediction method** 2023 - 2025
(Principal Investigator)
Graduate Research Fund Project of Yunnan University

Awards

- **First-Class Postgraduate Academic Scholarship, Yunnan University (5%)** 2023, 2024, 2025
- **Fudian Bank Scholarship (1%)** 2024

CV last updated: Feb 2026