

JINGYING CHEN

Undergraduate Student

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Python & JavaScript

<https://kkzyu.github.io/>

EDUCATION

2022.08-Present | Zhejiang University

Information Management and Information Systems

PAPERS

Mingyu Qi*, Jingying Chen*, Yunlong Yang. *Optimizing Fresh Warehouse Networks Using MIP and SARIMA Forecasting*. COCOON 2024 (CCF-B), 69–75. *Equal contribution.

- Addressed fresh warehouse network optimization using Mixed-Integer Programming (MIP) for static layout and SARIMA for order forecasting.

RESEARCH EXPERIENCE

2025.04-2025.06

Systematic sorting and visualization exploration of social media related research for CHI conferences – Mentor Prof. Yingcai Wu

- Key Member: Led the project and constructed a 3-tier hierarchical taxonomy (Content-Method-Platform) to structure massive unstructured bibliographic data.
- Technical Contributions: Designed an interactive visual analytics system featuring multi-level Sankey diagrams and coordinated views. The system successfully revealed evolutionary trends and research gaps (e.g., intersection of ethics and algorithms) within the HCI community.

2025.10-Present

Graduation Project: Explainable AI Text Detection for English Academic Papers – Mentor Prof. Siwei Fu

- Proposed a framework utilizing Multi-LLM collaborative annotation and human verification to construct a fine-grained dataset with hierarchical linguistic labels.
- Developing a generative detection model designed to map statistical features to AI probabilities, outputting both detection results and interpretable reasoning reports to address the "black box" issue.

2024.09-Present

Deep Learning for Multimodal Microscopic Tumor Cell Segmentation & Classification – Mentor Prof. Yongbin Ruan

- Key Member: Directed deep learning applications for early AI detection and cellular heterogeneity modeling within liver tumor microenvironments
- Technical Contributions: Innovatively achieved high-precision cross-modal registration of H&E and multiplex immunofluorescence images, integrating proteomics data for accurate annotation of complex cell types in mouse bile duct sections; Led the fine-tuning and optimization of deep learning image segmentation models, successfully automating precise nuclear and cell membrane segmentation in tissue sections.

Awards

2024.08

Grand Prize

4th Spark Cup Mathematical Modeling Elite League

2024.05

First Prize

22nd Zhejiang University Student Mathematical Modeling