Yuxin Feng

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Education

University of Wisconsin-Madison **Madison, USA**
Major in Computer Science, Minor in Statistics *Sep. 2024 – Present*

- Cumulative GPA: **4.0/4.0**
- Dean's List: Fall 2024
- Relevant Coursework: Introduction to Artificial Intelligence, Deep Learning for Computer Vision, Introduction to Deep Learning and Generative Models

China Agricultural University **Beijing, China**
Major in Computer Science and Technology *Sep. 2022 – Jun. 2024*

- Cumulative GPA: **3.81/4.00**; Ranking: **Top 1/64**
- Relevant Coursework: Linear Algebra, Probability Theory and Mathematical Statistic

Research Experience

China Agricultural University **Beijing, China**
***Team Member**, Advisor: Dr. Lili Yang* *Aug. 2023 – Jul.2024*

- Co-authored an arXiv preprint *FrustumFusionNets*
- Proposed a hybrid 2D-3D object detection framework, improving point cloud recognition accuracy
- Developed an automated orientation annotation tool for large-scale datasets
- Conducted a comprehensive literature review on deep learning and computer vision techniques

Projects

Multi-Emotional Probing for Controllable Language Generation **Madison, USA**
***Team Leader**, Advisor: Dr. Yiqiao Zhong* *Mar. 2025 – Present*

- Designed and implemented linear probes to uncover "emotion directions" in BERT's hidden representations for emotion classification
- Injected extracted vectors into gpt-2 to enable controllable emotional generation and emotion mixing in text
- Applied external emotion classifiers (e.g., VADER) to evaluate expression accuracy and interpretability
- Visualized layer-wise sensitivity to emotion injection using heatmaps and developed metrics for mixed emotion control
- Project Resources: [Proposal] [Code] [Report]

Smart Fisheries Meteorological Service Terminal **Beijing, China**
***Team Member**, Advisor: Dr. Xueqian Fu* *Sep. 2023 – Oct. 2023*

- Developed a time-series forecasting model using LSTM for aquaculture meteorology prediction
- Deployed TensorFlow Lite models for efficient edge computing in fisheries management

Skills

Programming: C/C++, Python, Java, R, SQL, LaTeX
Frameworks: PyTorch, MySQL, Git
Languages: TOEFL 104, Mandarin (Native)

Awards

10/2023 Second Prize Scholarship for Academic Excellence