

Jingxuan li

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Candy26i

Education

BS University of California, Los Angeles, Math of Computation

CA, USA

Sep. 2021 to Jun. 2025

- GPA: **3.98/4.0**
- Coursework: Machine Learning, Optimization, Numerical Methods, ODEs, Real Analysis, Complex Analysis, Advance Programming in C++, Statistics, Numerical methods, Probability theory, Math modeling, Computer Graphics.
- Honors: UCLA the Oda Abe **Scholarship** (Jun.2024), Dean's Honors List (2021, 2022, 2023, 2024)

Publications

Quantifying Preferences of Vision-Language Models via Value Decomposition in Social Media Contexts [🔗](#)

Jingxuan Li, Yuning Yang, Shengqi Yang, Yizhou Zhao, Ying Nian Wu

Under Review

Research Experience

UCLA, Researcher on VLM's latent and induced persona,

CA, USA

Advisor: Prof. Ying Nian Wu

Sep. 2023 to now

- Curated a **vectorized image dataset** from social media shorts using an automated **GUI-based pipeline**, capturing and processing screenshots for benchmarking.
- Benchmarked and analyzed the sentiment preferences of VLMs based on Schwartz's 10 Value Dimensions, evaluating models such as **Claude 3.5**, **Gemini 1.5**, **GPT-4o**, **Blip 2**, and **CogVLM**.
- Designed a pipeline in **inducing VLM personas** and evaluating their role-playing abilities through alignment with social media recommendation systems.
- Developed advanced Inductive Scoring Questionnaire (ISQ) **prompting strategies** to enhance the performance of role-playing VLMs.

Internship Experience

Tencent, Big Data researcher, Intern (CSIG - Cloud & Smart Industries Group)

Beijing, China

Aug. to Sep. 2024

- Conducted research on geolocation optimization, utilizing **NLP** methods such as **jieba** and **ckpt-transformers** to match WiFi-SSID and store names for precise geolocation.
- **Fine-tuned** the HunYuan-7b model on a constructed dataset, achieving enhanced accuracy for geolocation tasks.
- Designed and implemented a pipeline integrating the matching algorithm into **Tencent Maps**, significantly improving geolocation accuracy in industrial applications.

Tencent, Technical Researcher, Intern (CSIG - Cloud & Smart Industries Group)

Beijing, China

Jul. to Sep. 2023

- Designed and implemented **mathematical algorithms** to detect inconsistencies in apartment geological data, ensuring data accuracy.
- Optimized algorithm efficiency in **python**, reducing time and space complexity to enhance system performance.

Projects

COVID-19 and Travel Pattern

Nov. 2024

- Discovered connections between Travel patterns and COVID-19 case trends
- Written data critique and constructed a narrative on how different state's travel restrictions and policies interplay with the spread of influenza
- Created a **Website** on Word Press with Data Visualization using **Tableau** and Time JS

Population Model for Dragon

Nov. 2024

- Developed a population growth **model** for dragons using a modified Lotka-Volterra method.
- Solved the system of Ordinary Differential Equations (ODEs) to simulate predator-prey dynamics and tuned the **parameters** to make the model practical.

CNN on Image Classification

Feb. 2024

- Developed a Convolutional Neural Network (**CNN**) system using **ResNet** architecture to perform character identification in the animated series "The Simpsons," achieving high accuracy.
- Utilized **PyTorch** to implement the algorithm for model training and evaluation.

Logistic Regression on Wine Recognition

Jan. 2024

- Compared **Stochastic Gradient Descent**, Mini-batch Gradient Descent, and regular Gradient Descent methods for logistic regression in wine classification, optimizing step size for improved convergence.
- Utilized **scikit-learn** to implement the logistic regression algorithm and evaluate performance.

Skills

C++, Python, JavaScript, Matlab, HTML, SQL, PostgreSQL, AWS, Prisma, Milvus, Tableau, \LaTeX , Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Matplotlib, Linux, Visual Studio, XCode