Haoming Li

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EDUCATION BACKGROUND

Emory University, Atlanta, GA Aug 2022-May 2024

- Master of Science in Computer Science, GPA: 3.97/4

Renmin University of China (RUC), Beijing, China Sept 2018-June 2022

- Bachelor of Science, Major in Data Science, GPA: 3.45/4
- Bachelor of Economics, Major in Finance, GPA: 3.48/4

PUBLICATIONS

Haoming Li, Zhaoliang Chen, Songyuan Liu, Yiming Lu, Fei Liu. *Systematic Analysis of LLM Contributions To Planning: Solver, Verifier, Heuristic.* Targeting ACL 2025. arXiv:2412.09666

Haoming Li, Zhaoliang Chen, Jonathan Zhang, Fei Liu. LASP: *Surveying the State-of-the-Art in Large Language Model-Assisted AI Planning.* Under submission to ACL 2025. arXiv:2409.01806

Yikun Wang, Rui Zheng, **Haoming Li**, Qi Zhang, Tao Gui, Fei Liu. *RESCUE: Ranking LLM Responses with Partial Ordering to Improve Response Generation.* Accepted by ACL-SRW 2024. arXiv:2311.09136

RESEARCH EXPERIENCE

NLP Group | Emory University Mar 2023–Present
Graduate Research Assistant, Advisor: Prof. Fei Liu

- Specialized in natural language processing, evaluating and enhancing LLMs for improved accuracy, with optimized model ranking mechanisms accepted by ACL-SRW and published at arXiv:2311.09136
- Conducted in-depth research and analysis in LLM-Planning, gaining expertise in cutting-edge planning strategies; research published at arXiv:2409.01806
- Evaluated the performance of LLMs taking on different roles in tasks, and the performance of using comparative heuristic functions to discover and satisfy different types of constraints, published a paper and under submission to ACL
- Participated in weekly seminars to review advanced research papers and collaborate on innovative ideas

Reasoning and Knowledge Discovery Laboratory | University of Virginia Jun 2024–Present
Graduate Research Assistant, Advisor: Prof. Sheng Li

- Explored classic and advanced dynamic temporal graph algorithms, integrating LLMs to enhance encoding and comprehension of dynamic temporal graphs

Laboratory for Information System Applications | RUC May 2021–May 2022
Undergraduate Research Assistant, Advisor: Prof. Wei Xu

- Applied weighted max-relevancy and min-redundancy techniques, along with feature covariance, to select tens of features from hundreds, employing ablation studies to further optimize feature selection
- Constructed a large-scale enterprise graph with enterprises as nodes and investment and legal-representative relationships as edges
- Generated node representations using graph theory principles, labeled edges based on node distances, and evaluated credit risk propagation using distance metrics

PROGRAMMING PROJECTS

Python Code Visualization Tool, RUC Apr 2022

- Implemented a Python code visualization tool using Python and JavaScript to enhance understanding of code execution and data flow
- Designed and built a flowchart to illustrate how the code runs and how data changes throughout the process
- Visualized the execution process for users, improving clarity and accessibility in understanding complex workflows

Score Inquiry System**,** RUC Nov 2020

- Designed and implemented a course score inquiry system from database architecture to an end-user website, handling complex queries to provide a more accurate assessment of student progress within the Canvas portal
- Utilized Python, MySQL, and JavaScript to develop the system, enabling students to access detailed and specific information about their scores

INTERNSHIP EXPERIENCE

China Everbright Bank | Beijing, China Jul 2021–May 2022

Risk Control Intern

- Developed an advanced risk credit assessment model by constructing a heterogeneous graph encompassing approximately 100,000 entities and 900,000 relationships
- Leveraged graph neural network algorithms to build a credit evaluation framework, analyzing the contribution of various relationships to enhance the accuracy and depth of financial analytics
- Utilized Apache Spark to efficiently process large-scale data and complete the model implementation

LEADERSHIP AND COMMUNITY ENGAGEMENT

Young Volunteers Association, Beijing, China. Sept 2018 – Oct 2019

- Organized and participated in the Xiangshan Respect for the Elderly initiative, assisting seniors in learning to use basic electronic devices
- Engaged in stray cat rescue activities, including cleaning cat shelters and facilitating adoption placements for stray cats

PROGRAMMING SKILLS

Proficient in *Python, C, C++, MySQL, TensorFlow, PyTorch*

Experienced with *Docker, Tableau, PowerBI, Spark, Bash*

ADDITIONAL SKILLS AND INTERESTS

Languages: Fluent in English and Chinese

Fine Arts: Flute

Interests: Cinematography, Traveling, Cooking