YONGKANG LI

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EDUCATION

Peking University, Yuanpei College **Beijing, China**
Bachelor of Science, Data Science *Sept. 2018-Jun. 2022*
GPA: 3.70/4.0 (WES)
Core Courses*: Programming in C&C++(90), Python Programming (97), Data Structures (88), Algorithm Design and Analysis (90), Undergraduate Research (99)*

University of California Berkeley **Berkeley, California**
Master of Engineering, Industrial Engineering and Operation Research *Sept. 2023-Jun. 2024*

PUBLICATIONS

Yongkang Li, Sheng Wang, *BioLlama: Biomedical Inference Via Tool-Augmented Large Language Model*, in submission to Nature Communications

Yifan Wang, **Yongkang Li**, *et al.*, *Deep Graph Mutual Learning for Cross-domain Recommendation*, Proceeding of the 27th International Conference on Database Systems for Advanced Applications (DASFAA), 2022

Shuai Li, Yifan Wang, **Yongkang Li**, et al., *GMR-Rec: Graph Mutual Regularization Learning for Multi-Domain Recommendation*, Submitted to Expert Systems with Applications (under review)

RESEARCH EXPERIENCE

University of Washington, advisor Prof. Sheng Wang **Seattle, USA**
Research on Interpretable Biomedicine *Sep. 2023.-Now*

- Perform biomedical inference by tuning large language models to master biomedical tools.
- Achieve significant improvements using finetuned Llama7B over GPT4 in all experimental setting. Paper is currently drafting and expected to be ready for preview by mid Jan.

Enhance Biomedical Task with GPT-4 *Mar. 2023.-Jul. 2023*

- Use GPT-4 to generate structured and informative contents and encode them to improve model performance on drug-response prediction.
- Slightly outperform the baseline. The limitation of our method could be the quality of BERT embedding.

Peking University, advisor Prof. Ming Zhang **Beijing, China**
Research on Multi-Domain Recommendation Model *Jun. 2020-Mar. 2022*

- Employed graph neural network to obtain extensive features for the cold-start users and employed mutual learning method to model the information flow among domains.
- Presented the work at a prestigious conference. Extended the work and submitted the results to a journal publication.

WORKING EXPERIENCE

Meituan Corp. **Beijing, China**
Algorithm Strategy Intern *Nov. 2020-Jan. 2022*

- Habituated with the *Dianping APP* (the most widely used consumer review application in China) and identified the potential corners for improvements.
- Professionally designed, developed, and implemented a deep graph recommendation algorithm for the application. Wangled ratification for the improvements.

Peking University **Beijing, China**
Teaching Assistant *Mar. 2021-Jul. 2021*

- Assisted the professor in Algorithm Design and Analysis course. Prepared lessons, discussions, and tutorials.
- Illustrated the core ideas and motivations behind the classical algorithms in discussion class.
- Graded students' quizzes, programming assignments, and exam papers.

LEADERSHIP EXPERIENCE

Yongkang's Seminar at UC Berkeley **Berkeley, CA**
Host and Instructor *Oct. 2023-Nov. 2023*

- Quant Series: Highlight intuition and problem-solving ideas of challenging questions in quantitative trading interview. Topic mainly covers probability theory and machine learning.
- Exam Series: Summarize and review courses' content before exams. Topic mainly covers important modeling techniques and math intuitions in Optimization Analytics.

SELECTED AWARDS AND HONORS

Henan College Entrance Exam (Ranked 2nd out of 983,000) *Jun. 2018*
First Prize of Freshmen Scholarship (Worth $7,600) *Dec. 2018*
Annual Undergraduate Research Award *Mar. 2022*
Yuanpei College Academic Star & Outstanding Graduate *Jun. 2022*

SKILLS

Language: Fluent English (TOEFL: 108)
Programming: C/C++, Python
Certifications: MIT 6.431x Probability Theory, MIT 6.86x Machine Learning