

YUFEI LI

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github.com/yul091 scholar.google.com/citations?user=G2dGhLwAAAAJ&hl=en

RESEARCH INTERESTS

Large Language Models, Efficiency, Natural Language Processing, Reinforcement Learning, Recommender Systems

EDUCATION

University of California, Riverside <i>Ph.D. in Electrical and Computer Engineering (GPA: 4.0 / 4.0)</i>	Sep 2022 – Sep 2025 Riverside, CA
University of California, San Diego <i>M.S. in Electrical and Computer Engineering</i>	Sep 2018 – Jun 2020 San Diego, CA
Xi'an Jiaotong University (XJTU) <i>B.S. in Mechanical Engineering</i>	Sep 2014 – Jun 2018 Xi'an, China

EXPERIENCE

Research Scientist <i>Meta AI</i>	Oct 2025 – Present Sunnyvale, CA
Research Intern <i>Google DeepMind</i>	Jun 2024 – Sep 2024 Mountain View, CA
Research Intern <i>NEC Laboratories America, Inc.</i>	May 2022 – Aug 2022 Princeton, NJ
Research Intern <i>NEC Laboratories America, Inc.</i>	May 2021 – Aug 2021 Princeton, NJ
Research Intern <i>Seek Truth Corporation</i>	Jul 2019 – Sep 2019 Beijing, China

SELECTED PUBLICATIONS (* denotes equal contribution)

- M. Liang*, **Y. Li***, J. Xu*, K. Asadi, X. Liu, S. Gu, et al. **Generative Reasoning Re-ranker**. *Preprint 2026*.
- Z. Li*, J. Zhang*, **Y. Li**, Y. Zhu, C. Liu. **MixTraining: A Better Trade-Off Between Compute and Performance**. *Transactions on Machine Learning Research (TMLR) 2026*.
- Y. Li**, Z. Li, Y. Zhu, C. Liu. **LeMix: Unified Scheduling for LLM Training and Inference on Multi-GPU Systems**. *IEEE Real-Time Systems Symposium (RTSS) 2025*. **Outstanding paper award (top 2%)**
- Y. Li**, Y. Fu, Y. Dong, C. Liu. **MACE: A Hybrid LLM Serving System with Colocated SLO-aware Continuous Retraining Alignment**. *Preprint 2025*.
- Y. Li**, J. Nham, G. Jawahar, L. Shu, D. Uthus, Y. Sung, C. Yang, I. Rolnick, Y. Qiao, C. Liu. **Dr Genre: Reinforcement Learning from Decoupled LLM Feedback for Generic Text Rewriting**. *Preprint 2025*.
- Y. Fu, **Y. Li**, W. Xiao, C. Liu, Y. Dong. **Safety Alignment in NLP Tasks: Weakly Aligned Summarization as an In-Context Attack**. *Annual Meeting of the Association for Computational Linguistics (ACL) 2024*.
- Y. Li**, X. Yu, Y. Guo, Y. Liu, H. Chen, C. Liu. **Distantly-Supervised Joint Extraction with Noise-Robust Learning**. *Findings of the Association for Computational Linguistics (ACL Findings) 2024*.
- Y. Li**, Y. Liu, H. Wang, Z. Chen, W. Cheng, Y. Chen, W. Yu, H. Chen, C. Liu. **GLAD: Content-Aware Dynamic Graphs For Log Anomaly Detection**. *IEEE International Conference on Knowledge Graph (ICKG) 2023*.
- Y. Li**, Z. Li, W. Yang, C. Liu. **RT-LM: Uncertainty-Aware Resource Management for Real-Time Inference of Language Models**. *IEEE Real-Time Systems Symposium (RTSS) 2023*.

Z. Li, A. Samanta, **Y. Li**, A. Soltoggio, H. Kim, C. Liu. **R³: On-device Real-Time Deep Reinforcement Learning for Autonomous Robotics**. *IEEE Real-Time Systems Symposium (RTSS)* 2023.

S. Nikkhoo, Z. Li, A. Samanta, **Y. Li**, C. Liu. **PIMbot: Policy and Incentive Manipulation for Multi-Robot Reinforcement Learning in Social Dilemmas**. *International Conference on Intelligent Robots and Systems (IROS)* 2023.

Y. Li, X. Yu, Y. Liu, H. Chen, C. Liu. **Uncertainty-Aware Bootstrap Learning for Joint Extraction on Distantly-Supervised Data**. *Annual Meeting of the Association for Computational Linguistics (ACL)* 2023.

Y. Li, Z. Li, Y. Gao, C. Liu. **White-Box Multi-Objective Adversarial Attack on Dialogue Generation**. *Annual Meeting of the Association for Computational Linguistics (ACL)* 2023.

S. Li, **Y. Li**, J. Ni, J. McAuley. **SHARE: a System for Hierarchical Assistive Recipe Editing**. *Conference on Empirical Methods in Natural Language Processing (EMNLP)* 2022.

PROJECTS

Reinforcement Learning from Decoupled LLM Feedback for Generic Text Rewriting | *Jax, RL5X* | **Google (internal)**

- Introduced a large-scale benchmark dataset for text rewriting across dimensions of factuality, style, and conversation, generated by prompting LLMs, such as Gemini-1.5-Ultra
- Instruction-tuned (SFT) PaLM 2-S and distilled reward models from LLM preferences on sampled SFT responses
- Fine-tuned PaLM 2-S with RL (PPO) using decoupled rewards to align multiple rewriting objectives—instruction adherence, coherence, and controllable edits

Assessing the Reusability of Pre-trained Code Embeddings | *PyTorch* | **Code**

- Developed a cost-efficient offline framework to assess the generalizability of embeddings in code analysis tasks
- Evaluated the generalizability of existing pre-trained embeddings leveraging semantic metamorphic relationships

Rethink Negative Sampling in Bayesian Personalized Ranking | *PyTorch* | **Code**

- Identified a limitation of popularity-based sampling due to non-uniform negative sampling biases
- Rectified biases by creating tailored negative sampling distributions to boost Bayesian personalized ranking

Automatic Delivery Vehicle Design | *Python, MATLAB* | **Code**

- Simulated a project integrating the Courier and TSP challenges for autonomous delivery vehicle design
- Formulated a path planning algorithm by incorporating the A* heuristic rules with genetic evolution principles

SKILLS

Programming: Python, C, C++, Java, MATLAB, SQL, Bash, HTML, Markdown

Machine Learning: PyTorch, PyTorch-lightning, PyTorch Geometric (PyG), TensorFlow, Jax, Scikit-learn

Miscellaneous: L^AT_EX, Git, Ansys, SolidWorks, AutoCAD, Photoshop

HONORS & AWARDS

VEX Robotics International Competitions

Sep 2016 – Jun 2017

Team Leader & Programmer

Louisville, KY

- Excellent Award and Runner-Up at the VEX Robotics World Championship (RECF) 2017
- Excellent Award and Runner-Up at the VEX Robotics Asia Open 2016
- First-class Award at the VEX Robotics China Open 2016

National Encouragement Scholarship

Sep 2014 – Jun 2017

Personal (Top 10% from XJTU)

Xi'an, China

AREA CHAIR & REVIEWER

Area Chair: ACL 2024, NAACL 2024

Reviewer: ACL 2025, EMNLP 2025, EMNLP 2023, KDD 2023, CIKM 2022, RTSS 2023, ICSE 2022, FSE 2022