

YUFEI LI

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EDUCATION

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

RESEARCH AREA

Natural Language Processing, Uncertainty Quantification, Efficient Large Language Model (LLM) Training & Inference

WORK & RESEARCH EXPERIENCE

University of California, Riverside <i>Graduate Student Researcher</i>	Riverside, CA <i>Sep 2022 – Present</i>
NEC Laboratories America, Inc. <i>Natural Language Processing & Data Mining Research Intern</i> Project: Content-aware Dynamic Graphs for Log Anomaly Detection	Princeton, NJ <i>May 2022 – Aug 2022</i>
NEC Laboratories America, Inc. <i>Natural Language Processing Research Intern</i> Project: Distantly-supervised Joint Entity and Relation Extraction with Noise-robust Learning	Princeton, NJ <i>May 2021 – Aug 2021</i>
University of Texas at Dallas <i>Research Assistant</i>	Dallas, TX <i>Aug 2020 – May 2022</i>
SeekTruth Scientific & Technical Corporation <i>Machine Learning Research Intern</i> Project: Real-time Video Frame Orientation Calibration for Online Streaming	Beijing, China <i>Jul 2019 – Sep 2019</i>

SELECTED PUBLICATIONS ([GOOGLE SCHOLAR](#))

- Yufei Li**, Zexin Li, Wei Yang, Cong Liu. RT-LM: Uncertainty-Aware Resource Management for Real-Time Inference of Language Models. *IEEE Real-Time Systems Symposium (RTSS) 2023*.
- Zexin Li, Aritra Samanta, **Yufei Li**, Andrea Soltoggio, Hyoseung Kim, Cong Liu. R³: On-device Real-Time Deep Reinforcement Learning for Autonomous Robotics. *IEEE Real-Time Systems Symposium (RTSS) 2023*.
- Shahab Nikkhoo, Zexin Li, Aritra Samanta, **Yufei Li**, Cong Liu. PIMbot: Policy and Incentive Manipulation for Multi-Robot Reinforcement Learning in Social Dilemmas. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2023*.
- Yufei Li**, Xiao Yu, Yanchi Liu, Haifeng Chen, Cong Liu. Uncertainty-Aware Bootstrap Learning for Joint Extraction on Distantly-Supervised Data. *Annual Meeting of the Association for Computational Linguistics (ACL) 2023*.
- Yufei Li**, Zexin Li, Yingfan Gao, Cong Liu. White-Box Multi-Objective Adversarial Attack on Dialogue Generation. *Annual Meeting of the Association for Computational Linguistics (ACL) 2023*.
- Shuyang Li, **Yufei Li**, Jianmo Ni, Julian McAuley. SHARE: a System for Hierarchical Assistive Recipe Editing. *Conference on Empirical Methods in Natural Language Processing (EMNLP) 2022*.
- Ke Chen*, **Yufei Li***, Yingfeng Chen., Changjie Fan, Zhipeng Hu, Wei Yang. GLIB: Towards Automated Test Oracle for Graphically-Rich Applications. *ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2021*.

PROJECTS

Assessing the Reusability of Pre-trained Code Embeddings

- 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

- Identified a limitation of popularity-based sampling due to non-uniform negative sampling bias.
- Rectified this bias by creating tailored negative sampling distributions, enhancing Bayesian personalized ranking (BPR) performance.

Automatic Delivery Vehicle Design

- 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.

HONORS & AWARDS

VEX Robotics International Competitions

Team Leader & Programmer

Louisville, KY

Sep 2016 – Jun 2017

- 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

Recipient (Top 10 out of 300+ candidates from XJTU)

Xi'an, China

Sep 2014 – Jun 2017

SKILLS

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

Machine Learning: PyTorch, PyTorch-lightning, TensorFlow, Keras, Scikit-learn

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

PROGRAM COMMITTEE & REVIEWER

ACL Rolling Review, EMNLP, KDD, CIKM, RTSS, ICSE, ESEC/FSE, ASE