Yifeng He

Curriculum Vitae

Education

2023-present **PhD, Computer Science**, *University of California*, Davis.

2019-2023 Bachelor of Science, Computer Science, Applied Math, University of California, Davis.

Publications

In Conference Proceedings

- 2025 **Yifeng He**, Ethan Wang, Yuyang Rong, Zifei Cheng, and Hao Chen. Security of ai agents. In *International Workshop on Responsible AI Engineering (RAIE)*, Ottawa, Ontario, Canada, 2025.
- 2024 **Yifeng He**, Jiabo Huang, Yuyang Rong, Yiwen Guo, Ethan Wang, and Hao Chen. UniTSyn: A large-scale dataset capable of enhancing the prowess of large language models for program testing. In *International Symposium on Software Testing and Analysis (ISSTA)*, Vienna, Austria, 2024.
- 2024 Jiabo Huang, Jianyu Zhao, Yuyang Rong, Yiwen Guo, Yifeng He, and Hao Chen. Code representation pre-training with complements from program executions. In *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Miami, Florida, USA, 2024.
- 2023 Jianyu Zhao, Yuyang Rong, Yiwen Guo, **Yifeng He**, and Hao Chen. Understanding programs by exploiting (fuzzing) test cases. In *Findings of the Association for Computational Linguistics (ACL)*, Toronto, Canada, 2023.
- 2022 **Yifeng, He**. Big data and deep learning techniques applied in intelligent recommender systems. In 2022 IEEE 4th International Conference on Civil Aviation Safety and Information Technology (ICCASIT), pages 1119–1124, 2022.

Preprints

- 2024 Hongxiang Zhang, **Yifeng He**, and Hao Chen. Steerdiff: Steering towards safe text-to-image diffusion models, 2024.
- 2024 Hongxiang Zhang, Yuyang Rong, **Yifeng He**, and Hao Chen. Llamafuzz: Large language model enhanced greybox fuzzing, 2024.
- Jicheng Wang, **Yifeng He**, and Hao Chen. Repogenreflex: Enhancing repository-level code completion with verbal reinforcement and retrieval-augmented generation, 2024.
- 2024 **Yifeng He**, Jicheng Wang, Yuyang Rong, and Hao Chen. Data augmentation by fuzzing for neural test generation, 2024.

Internships

04/2021- Software Development Engineer Intern, ByteDance (Toutiao), Creator Income Platform.

07/2021 • Used microservice tech to connect parts of the author income settlement bushiness

- Transformed author-relation data architecture design from relational database (SQL) to graph database (Gremlin) to allow better efficiency for the business model
- Refactored the income calculation control process with in Python 3
- 07/2021- Software Development Engineer Intern, ByteDance (Xigua Video), Creator Experience Team.

08/2021 \circ Created a data cleaner with ORM to maintain the size and readability of online data settlement table

- o Created the offline flow of Medium-Length Video Encouragement Project for weekly data calculation
- Built the interface for frontend of web and mobile app to display the data visualization

Awards

- 2023 Citation for Outstanding Performance, Department Mathematics, UC Davis
- 2019-2022 Dean's Honor List, College of Letters and Science, UC Davis