

Yifeng He

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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)*, 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)*, 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)*, 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)*, 2023.
- 2022 **Yifeng He**. Big data and deep learning techniques applied in intelligent recommender systems. In *International Conference on Civil Aviation Safety and Information Technology (ICCASIT)*, 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.
- 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 business
 - 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
 - Created a data cleaner with ORM to maintain the size and readability of online data settlement table
 - 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 of Mathematics, UC Davis
- 2019–2022 **Dean's Honor List**, College of Letters and Science, UC Davis