## Yifeng He

Contact Information	Cell: (530) 302-6806   E-mail: yfhe@ucdavis.edu   WWW: https://eyh0602.github.io/
Research Interests	Program Analysis (Compilers, Types, and Fuzzing), Code Understanding via Machine Learning & NLP, Programming Languages for Machine Learning & AI, Secure and Formal Verifiable Programs, Computer Security.
PUBLICATIONS	Huang, J., Zhao, J., Rong, Y., Guo, Y., <b>He, Y.</b> , Chen, H. Code Representation Pre-training with Complements from Program Executions, International Conference on Learning Representations (ICLR), 2024. Under Review.
	Zhao, J., Rong, Y., Guo, Y., <b>He, Y.</b> , Chen, H. Understanding Programs by Exploiting (Fuzzing) Test Cases, Findings of Association for Computational Linguistics (ACL), 2023.
	<b>He</b> , <b>Y</b> , <i>Big Data and Deep Learning Techniques Applied in Intelligent Recommender Systems</i> , IEEE 4th International Conference on Civil Aviation Safety and Information Technology (ICCASIT), 2022.
HONORS AND AWARDS	Citation for Outstanding Performance, Dept. Mathematics, UC Davis, 2023
	Dean's Honor List, College of L&S, UC Davis, Fall 2019, Spring 2020, Spring 2021, Spring 2022
INTERNSHIP	ByteDance       04/2021 - 08/2021         Software Engineering Intern, Income Platform Team       04/2021 - 08/2021         • Used microservice tech to connect parts of the author income settlement bushiness
	<ul> <li>Transformed author-relation data architecture design from relational database (SQL) to graph database (Gremlin) to allow better efficiency for the business model</li> </ul>
	• Refactored the income calculation control process with visitor design pattern using Python 3
	<ul> <li>Software Engineering Intern, Xigua Video Author Experience Team</li> <li>Created a data cleaner script with ORM to maintain the size and readability of online data settlement table</li> </ul>
	• Created the offline flow of Medium Video Encouragement Project for weekly data calculation
	• Built the interface for frontend of web and mobile app to display the data visualization
ACTIVITIES	<ul> <li>HackerHub Club, UC Davis 07/2020 - 06/2023</li> <li>Co-founder, President, Technical Officer</li> <li>Design and maintain a course recommendation system, CourseReco, for UC Davis students</li> <li>Organize and lead the Code Jam Competition on data visualization, AI, augmented reality</li> </ul>
	and virtual reality, and machine learning
	• Coach in introductory programming workshops, including Assembly, functional programming, recommender system, generative adversarial network, etc.