PENGYUE JIANG

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https://github.com/pengyuejiang

EDUCATION

Cornell University   **August 2023 – Present**
Ph.D. in Computer Science   *Ithaca, NY*

University of Illinois Urbana-Champaign (UIUC)   **August 2019 – May 2023**
B.S. in Computer Science + Philosophy   *Champaign, IL*
Grade Point Average: 3.95/4.00

AWARDS

- Veena & Induprakas Keri Ph.D. Fellowship for the 2023-2024 academic year
- John R. Pasta Outstanding Undergraduate Award for 2022 (2 recipients per year based on academic merit)
- Dean's List for five semesters: Fall 2019, Spring 2020, Fall 2020, Fall 2021, and Spring 2022

PUBLICATION

1. eMOP: A Maven Plugin for Evolution-Aware Runtime Verification
   Ayaka Yorihiro, Pengyue Jiang, Valeria Marqués, Benjamin Carleton, and Owolabi Legunsen
   23rd International Conference on Runtime Verification, Tool Demonstration
   (RV 2023), pages 363-375, Thessaloniki, Greece, October 2023

PRESENTATIONS

1. "eMOP: A Maven Plugin for Evolution-Aware Runtime Verification", 23rd International Conference on Runtime Verification, Thessaloniki, Greece   October 3, 2023
2. "eMOP: A Maven Plugin for Evolution-Aware Runtime Verification", UT Austin and Cornell University Software Engineering Seminar, Cornell University, Ithaca, NY, U.S.A.   September 29, 2023

RESEARCH EXPERIENCE

Research Project Mentored by Prof. Darko Marinov at UIUC   **January – May 2022**
Undergraduate Researcher   *Champaign, IL*
- Research area: Software engineering, with a focus on software testing.
- Topics covered include flaky tests, automated program repair, build systems, mutation testing, etc.
- Used a Maven plugin, *NonDex*, to identify and fix flaky tests in popular open-source libraries such as Google's guice.
- Made 19 pull requests on projects from Google, IBM, SAP etc. 4 accepted and 0 rejected.
- Skills deployed: Java, Maven, CI/CD, writing pull requests and communication skills (with open-source developers).

COURSEWORK

- CS Core: Data Structures, Computer Architecture, Algorithms, Programming Languages, Compilers
- Specializations: Database Systems, Software Engineering, Bioinformatics, Formal Software Development Methods, Software Testing
- Machine Learning: Applied Machine Learning, Natural Language Processing
- Philosophy: Semantics and Pragmatics, Ethics and Engineering, Advanced Symbolic Logic

TEACHING EXPERIENCE (ALL AT UIUC)

Course Assistant for CS126: Software Design Studio   **January – May 2022**
- Hosted code review sessions for students on a weekly basis.
- Graded programming assignments from students on a weekly basis.

Course Assistant for CS241: System Programming   **September – December 2021**
- Held office hours and assisted laboratory sections on a weekly basis.
- Continuously contributed to improve the contents of online course material.
- GitHub link for online course material: https://github.com/illinois-cs241/coursebook

Course Assistant for CS125: Introduction to Computer Science   **January – May 2020**
- Held office hours and assisted laboratory sections on a weekly basis.
- Used skills in Java and Android Studio to help students understand concepts in class, homework problems, and programming assignments.