

# Yanze Li

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## RESEARCH INTERESTS

My area of interest are **Programming Language** and **Static Analysis**. I develop static analysis tools that can scale to large codebase and various code changes with an emphasis on concurrency-related bugs (race detection, deadlock detection, etc.). Recently, I'm switching my focus to something more "formal", such as verification, type system, etc., and I'm actively looking for PhD openings in these areas. My goal is to improve programming productivity and software reliability from a PL perspective.

## EDUCATION

- M.S. Computer Science, Texas A&M University, 2017-Present  
*Advisor: Jeff Huang*  
*Thesis: Efficient and Scalable Whole Program Race Detection for Java and Android Programs*  
GPA: 4.0/4.0
- B.Eng. Electrical Engineering, Huazhong University of Science and Technology, 2017  
GPA: 3.67/4.0 Major GPA: 3.81/4.0

## PUBLICATIONS

- ICSE 19' (Demo Track) "SWORD: A Scalable Whole Program Race Detector for Java"  
**Yanze Li**, Bozhen Liu, Jeff Huang

## PROJECTS

- LLVMRace** An LLVM-based race detector, found several previously unknown bugs in Linux kernel, covid-sim (the simulation program for COVID-19), memcached, and GraphBLAS.
- OMPRacer** An LLVM-based race detector for OpenMP programs, using a SMT solver and value-flow analysis to reason about interprocedural array accesses.  
Found a previously unknown bug in ECP proxy applications.
- Crappie** An incremental race detection engine that scales to distributed systems and Android apps and has been implemented as a IntelliJ IDEA plugin.
- SWORD** A whole program race detector for Java (source code/bytecode) and has been implemented as a Eclipse plugin.

## **HONOR AND AWARDS**

2019	ACM SIGSOFT CAPS Award
2017	Excellent Graduated Student at HUST
2015	Scientific Research Innovation Scholarship
2014	3 <sup>rd</sup> Place, China University Cloud Computing Innovation Competition

## **SERVICE**

### **Sub-Reviewer**

2020	OOPSLA
2019	PLDI, ICSE, FSE, OOPSLA
Journal	TSE