# Junpeng Zha

PhD in NJU

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## Formal Method, verification, reliability

### Research Statement

My research interests are in the area of formal methods, programming language and building high-confident software. Building high-confident software has been focused by all over the world, because of the widely use of computer system. And formal verification is based on rigorous mathematical theories and methods and can provide a strong guarantee for the correctness of software. My current work is about OS kernel and compiler verification, and certifying low-level assembly code.

## Education

2019-present **Doctoral's Candidate**, Computer Science, Nanjing University

Advisor : Prof. Xinyu Feng

Research : Assembly code and Compiler Verification

2016-2019 Master's Degree, Computer Science, University of Science and Technology of China

• Thesis title: "Formal Verification of SPARCv8 Assembly Code".

o Advisor : Prof. Xinyu Feng

• Research : High-Confidence Software, Formal Verification

Rank: 1/93
 GPA: 4.00/4.30

2012-2016 Bachelor's Degree, Software Engineering, Shandong University at Weihai

• Rank: 2/103 GPA: 91.68/100

#### **Publications**

- [1] Hanru Jiang, Hongjin Liang, Siyang Xiao, **Junpeng Zha**, Xinyu Feng. Towards Certified Separate Compilation for Concurrent Programs. *In Proc. 40th ACM SIGPLAN Conference on Programming Language Design and Implementation* (PLDI'19), Phoenix, Arizona, USA, June 2019. *(one of six 2019 PLDI distinguished paper)*
- [2] Junpeng Zha, Xinyu Feng, and Lei Qiao. Modular Verification of SPARCv8 Code. 16th Asian Symposium on Programming Languages and Systems (APLAS'18), Wellington, New Zealand, pages 245-263, December 2018.

#### Selected Honors and Awards

- 2016.06 Excellent Undergraduate of Shandong University, 2016
- 2015.12 Bronze Medal, The 40<sup>th</sup> ACM-ICPC Asia Regional Context, EC-Final 2015
- 2014.12 Bronze Medal, The 39th ACM-ICPC Asia Regional Context, Shanghai 2014
- 2014.12 **First Prize**, The Scholarship for Excellent Student in Shandong University at Weihai, Shandong 2014

- 2014.10 First Prize, China Undergraduate Mathematical Contest in Modeling, Shandong 2014
- 2013.12 Outstanding Student of Shandong University at Weihai, 2013
- 2013.11 National Scholarship, 2013

# Language

- 2016.12 **College English Test-6**, 457 scores
- 2013.06 College English Test-4, 510 scores

# Interesting

soccer, basketball

## Self Evaluation

I am now a PhD student in Nanjing University and working as a research assistant in the Department of Computer Science and Technology. My major is computer science and research area is about software security and reliability. I am easy-going and congenial, with a strong sense of responsibility and good team-spirit, and get along well with people around.