

# Pengfei Su

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## Education

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- **College of William & Mary** Williamsburg, VA  
*P.h.D in Computer Science, GPA: 3.87/4* Aug 2016 - Aug 2020
- **Institute of Computing Technology, Chinese Academy of Sciences** Beijing, China  
*M.S. in Computer Science, GPA: 87/100, Rank: Top 10%* Aug 2013 - Jun 2016
- **Yunnan University** Yunnan, China  
*B.S. in Computer Science, GPA: 91/100, Rank: 3/298* Aug 2009 - Jun 2013

## Skills

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- Languages C/C++, Java, Python, Go, Shell
- Tools&Libraries Linux Perf, Intel Pin, JVMLI, MPI, OpenMP, Pthread

## Research Interests

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Performance Profiling, Program Analysis, Compiler Techniques

## Research Experience

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- **College of William & Mary** Williamsburg, VA  
*Research Assistant* Aug 2016 - Current  
Working with Dr. Xu Liu on developing tool infrastructures to pinpoint and quantify various software inefficiencies.

## Teaching Experience

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- **College of William & Mary** Williamsburg, VA  
*Teaching Assistant for Programming Languages (CSCI312)* Spring 2018, Fall 2017
- **College of William & Mary** Williamsburg, VA  
*Teaching Assistant for Algorithms (CSCI303)* Spring 2017, Fall 2016

## Industry Experience

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- **Uber** Palo Alto, CA  
*Software Engineering Intern* May 2019 - Aug 2019  
Built a PMU-based profiler for Go

## Professional Service

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- Artifact Evaluation Committee CGO'18&19, PPoPP'18&19
- Conference Sub-reviewer ICPP'17&19, BIGCOM'19
- Conference Volunteer ASPLOS'18

## Publications

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- [SC'19] Pinpointing Performance Inefficiencies via Lightweight Variance Profiling, **Pengfei Su**, Shuyin Jiao, Milind Chabbi, Xu Liu, The International Conference for High Performance Computing, Networking, Storage and Analysis, Nov 17-22, 2019, Denver, CO, USA.
- [ESEC/FSE'19] Pinpointing Performance Inefficiencies in Java, **Pengfei Su**, Qingsen Wang, Milind Chabbi, Xu Liu, The 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, Aug 26 - 30, 2019, Tallinn, Estonia.

- [ICSE'19] Redundant Loads: A Software Inefficiency Indicator, **Pengfei Su**, Shasha Wen, Hailong Yang, Milind Chabbi, Xu Liu, The 41st IEEE/ACM International Conference on Software Engineering, May 25 - Jun 1, 2019, Montreal, Canada. **ACM SIGSOFT Distinguished Paper Award**
- [PPoPP'19] Lightweight Hardware Transactional Memory Profiling, Qingsen Wang, **Pengfei Su**, Milind Chabbi, Xu Liu, The 24th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming, Feb 16-20, 2019, Washington, D.C.. **Best Paper Award**
- [Under Review] An Object-centric Profiler for Java, Bolun Li, **Pengfei Su**, Milind Chabbi, Xu Liu.

## Honors and Awards

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| • SIGSOFT Travel Grant for ESEC/FSE'19 | 2019 |
| • Distinguished Paper Award of ICSE19  | 2019 |
| • Best Paper Award of PPOPP'19         | 2019 |
| • SIGPLAN Travel Grant for PPOPP'19    | 2019 |
| • NSF Travel Grant for PPOPP'19        | 2019 |