

CHAO PENG

IF-4.23, Informatics Forum, 10 Crichton Street, Edinburgh, EH8 9AB, United Kingdom

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EDUCATION

Doctor of Philosophy in Informatics: LFCS: Foundations of Computer Science, Databases, Software & Systems Modelling September 2017 - In progress

School of Informatics, the University of Edinburgh, UK

Supervised by Dr. Ajitha Rajan

Research interest includes:

Massively parallel architectures and programming

Code coverage metrics for GPU programs

Automated test case generation, reduction and execution.

Master of Science in High Performance of Computing

September 2016 - August 2017

Edinburgh Parallel Computing Centre, the University of Edinburgh, UK

During my Master's program, I was a member of Team EPCC representing the University of Edinburgh for the HPCAC Student Cluster Competition. My contribution as part of the teamwork is featured in my thesis including our computing cluster configuration, computation application performance investigation and optimisation.

Bachelor of Engineering in Computer Science and Technology

September 2012 - June 2016

Xuzhou University of Technology, China

RESEARCH PUBLICATION

Chao Peng. *On the Correctness of GPU Programs.* In proceedings of the 2019 ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2019). To Appear in July 2019.

Chao Peng, Ajitha Rajan. *SIF: A Framework for Solidity Code Instrumentation and Analysis.* Pre-print.

Chao Peng, Ajitha Rajan. *CLTestCheck: Measuring Test Effectiveness for GPU Kernels.* In proceedings of the 22nd International Conference on Fundamental Approaches to Software Engineering (FASE 2019) (part of The European Joint Conferences on Theory and Practice of Software (ETAPS)). April 2019

SERVICE

Student Volunteer ISSTA 2019 (scheduled)

Student Volunteer ETAPS 2019

Reviewer ICSE 2019 SEIP (Software Engineering in Practice) Track

SKILLS

Languages Mandarin Chinese - Native

English - Proficient

German - Basic

Technical Skills Programming languages: C/C++, Java, Fortran, Python

Parallel programming: OpenMP, MPI, OpenCL

Tools L^AT_EX, Git

TEACHING EXPERIENCE

Software Testing

01/18 - 04/18, 01/19 - 04/19

Teaching Assistant, Tutor and Marker

School of Informatics, University of Edinburgh

Computer Programming Skills and Concepts

11/17 - 12/17, 12/18 - 01/19

Marker

School of Informatics, University of Edinburgh

SCHOLARSHIPS & HONOURS

SCHOLARSHIPS

- **Huawei Scholarship** (fully-funded PhD scholarship) 04/17
- **Outstanding Graduate Scholarship** at Xuzhou University of Technology 06/16
- **China National Scholarship** of 2014/15 Academic Year 11/15
- **China National Encouragement Scholarship** of 2013/14 Academic Year 11/14
- **China National Scholarship** of 2012/13 Academic Year 11/13

HONOURS & AWARDS

- Nomination for Teaching Awards: Best Student Who Tutors Award 02/18
- Certificate of Achievement for Participating in the 6th Annual HPCAC Student Cluster Competition 06/17
- Distinct Graduate of Xuzhou University of Technology 06/16
- Top Ten Role Models of Study at Xuzhou University of Technology 03/16
- Jiangsu Province-level Excellent Student Cadre 05/15

EXTRA-CURRICULAR & VOLUNTEER EXPERIENCE

- Volunteer and demonstrator at drop-in event What can supercomputers do at Edinburgh International Science Festival 13/04/17-15/04/17
- Key volunteer of the 18th Sports Meeting of Jiangsu Province 09/13-09/14
- President of the Student Union of School of Information & Electrical Engineering, Xuzhou University of Technology 12/14-12/15