CHAO PENG

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

+44 (0) 131 650 4437 ⋄ chao.peng@ed.ac.uk

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, Sefa Akca, Ajitha Rajan. *SIF: A Framework for Solidity Contract Instrumentation and Analysis.* In proceedings of the the 26th Asia-Pacific Software Engineering Conference (APSEC 2019). To appear in December 2019

Sefa Akca, Ajitha Rajan, **Chao Peng**. *SolAnalyser: A Framework for Analysing and Testing Smart Contracts.* In proceedings of the the 26th Asia-Pacific Software Engineering Conference (APSEC 2019). To appear in December 2019

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

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).   April 2019

SERVICE

Student Volunteer	ISSTA 2019
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	LaTeX, 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*

Introduction to Java Programming	09/17 - 12/17, 09/18 - 12/18
Demonstrator	*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