# Cheng Wang

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## Education

**The University of Hong Kong**                                                        *Hong Kong, China*

*PhD, Computer Science*                                                                *Sept. 2015 - Mar. 2020*

Advisor: Heming Cui

Thesis: Transparent and Efficient Fault Tolerance on High-Speed Datacenter Networking

**Cornell University**                                                                         *Ithaca, USA*

*Visiting Scientist*                                                                        *June. 2019 - Oct. 2019*

Advisor: Robbert van Renesse, Hakim Weatherspoon

**Tongji University**                                                                    *Shanghai, China*

*B.Eng., Software Engineering*                                                          *Sept. 2011 - July. 2015*

GPA: 4.6/5.0, ranking: 9/180

## Publications

**Uranus: Simple, Efficient SGX Programming and its Applications**

Jianyu Jiang, Xusheng Chen, Tsz On Li, **Cheng Wang**, Tianxiang Shen, Shixiong Zhao, Heming Cui, Cho-Li Wang, Fengwei Zhang

15th ACM ASIA Conference on Computer and Communications Security (ACM AsiaCCS'20)

**Fulva: Efficient Live Migration for In-memory Key-Value Stores with Zero Downtime**

Jiewen Hai\*, **Cheng Wang**\*, Xusheng Chen, Tsz On Li, Heming Cui, Sen Wang (\*co-first authors)

38th IEEE International Symposium on Reliable Distributed Systems (IEEE SRDS'19)

**PLOVER: Fast, Multi-core Scalable Virtual Machine Fault-tolerance**

**Cheng Wang**, Xusheng Chen, Weiwei Jia, Haoran Qiu, Boxuan Li, Shixiong Zhao, Heming Cui

15th USENIX Symposium on Networked Systems Design and Implementation (USENIX NSDI'18)

**Effectively Mitigating I/O Inactivity in vCPU Scheduling**

Weiwei Jia, **Cheng Wang**, Xusheng Chen, Jianchen Shan, Xiaowei Shang, Heming Cui, Xiaoning Ding, Luwei Cheng, Francis C. M. Lau, Yuexuan Wang, Yuangang Wang

2018 USENIX Annual Technical Conference (USENIX ATC'18)

**APUS: Fast and Scalable PAXOS on RDMA**

**Cheng Wang**, Jianyu Jiang, Xusheng Chen, Ning Yi, Heming Cui

ACM Symposium on Cloud Computing 2017 (ACM SoCC'17)

**A Fast, General Storage Replication Protocol for Active-Active Virtual Machine Fault Tolerance**

**Cheng Wang**, Xusheng Chen, Zixu Wang, Youwei Zhu, Heming Cui

IEEE 23rd International Conference on Parallel and Distributed Systems (IEEE ICPADS'17)

**TRIPOD: An Efficient, Highly-available Cluster Management System**

**Cheng Wang**, Jingyu Yang, Ning Yi, Heming Cui

7th ACM SIGOPS Asia-Pacific Workshop on Systems (ACM APSys'16)

## Patent

**Non-Blocking Distributed Consensus in Hypervisor**

**Cheng Wang**, Xusheng Chen, Heming Cui, Weifeng Shen, Long Bai, Shuzhan Bi

PCT/CN2018/082225 (Owned by Huawei)

# Working Experience

**NEC Laboratories Europe** *Heidelberg, Germany*
*Research Scientist* *June. 2018 - Oct. 2018*
Advisor: Dr. Felipe Huici
Research topic: Unikernel-based prediction serving systems for machine learning

**Masters of Arts Anwendungsentwicklung GmbH** *Hamburg, Germany*
*Full Stack Developer* *Sept. 2014 - Feb. 2015*

# Teaching Assistant

**COMP3402 - System Architecture and Distributed Computing** Spring 2016
**COMP3402 - System Architecture and Distributed Computing** Spring 2017
**COMP3402 - System Architecture and Distributed Computing** Spring 2018
**COMP3402 - System Architecture and Distributed Computing** Spring 2019