Hao Wang

Contact Information

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Education

University of Toronto

Ph.D. in Computer Engineering, Advisor: Prof. Baochun Li

Shanghai Jiao Tong University (SJTU)

M.E. in Software Engineering

Shanghai Jiao Tong University (SJTU)

B.E. in Information Security

Toronto, Canada

Sept. 2015 - present

Shanghai, China Sept. 2012 - Mar. 2015

Shanghai, China

Sept. 2008 - Jul. 2012

Research Interest

Data Analytics, Distributed Computing, Datacenter Networking

Publications

[Conference Publications]

- Opynamic and Decentralized Global Analytics via Machine Learning Hao Wang, Di Niu, Baochun Li. ACM SoCC, Carlsbad, CA, October 2018
- Lube: Mitigating Bottlenecks in Wide Area Data Analytics
 Hao Wang, Baochun Li. USENIX HotCloud, Santa Clara, CA, July 2017
- FlowProphet: Generic and Accurate Traffic Prediction for Data-parallel Cluster Computing
 Hao Wang, Li Chen, Kai Chen, Ziyang Li, Yiming Zhang, Haibing Guan, Zhengwei Qi, Dongsheng Li,
 Yanhui Geng. IEEE ICDCS, Columbus, OH, June 2015.
- Guaranteeing Deadlines for Inter-Datacenter Transfers
 Hong Zhang, Kai Chen, Wei Bai, Dongsu Han, Chen Tian, Hao Wang, Haibing Guan, Ming Zhang.
 ACM EuroSys, Bordeaux, France, April 2015.
- Practical Information-Agnostic Flow Scheduling for Data Center Networks
 Wei Bai, Li Chen, Kai Chen, Dongsu Han, Chen Tian, Hao Wang.
 USENIX NSDI 2015, Oakland, CA, May 2015.
- Explicit Path Control in Commodity Data Centers: Design and Applications
 Shuihai Hu, Kai Chen, Haitao Wu, Wei Bai, Chang Lan, Hao Wang, Hongze Zhao, Chuanxiong Guo.
 USENIX NSDI 2015, Oakland, CA, May 2015.
- On Pricing Schemes in Data Center Network with Game Theoretic Approach Hao Wang, Yangming Zhao, Haibing Guan. *IEEE ICCCN 2014*, Shanghai, China, August 2014.

[Journal Publications]

- Mitigating Bottlenecks in Wide Area Data Analytics via Machine Learning Hao Wang, Baochun Li. IEEE Transactions on Network Science and Engineering (TNSE), 2018.
- Information-Agnostic Flow Scheduling for Commodity Data Centers Wei Bai, Li Chen, Kai Chen, Dongsu Han, Chen Tian, Hao Wang. IEEE/ACM Transactions on Networking (ToN), 2017.
- Guaranteeing Deadlines for Inter-Datacenter Transfers
 Hong Zhang, Kai Chen, Wei Bai, Dongsu Han, Chen Tian, Hao Wang, Haibing Guan, Ming Zhang.
 IEEE/ACM Transactions on Networking (ToN), 2016.
- Explicit Path Control in Commodity Data Centers: Design and Applications
 Shuihai Hu, Kai Chen, Haitao Wu, Wei Bai, Chang Lan, Hao Wang, Hongze Zhao, Chuanxiong Guo. IEEE/ACM Transactions on Networking (ToN), 2015.
- o Towards Comprehensive Traffic Forecasting in Cloud Computing: Design and Application

Yang Peng, Kai Chen, Guohui Wang, Wei Bai, Yangming Zhao, **Hao Wang**, Yanhui Geng, Zhiqiang Ma, Lin Gu. IEEE/ACM Transactions on Networking (ToN), 2015.

Experience

RESEARCH ASSISTANT
University of Toronto, supervised by Prof. Baochun Li
2015.09-present

TEACHING ASSISTANT Toronto

University of Toronto

CSC 444: Software Engineering (by Prof. Michael Stumm).
 CSC 369: Operating Systems (by Dr. Sina Meraji).
 ESC 499: Engineering Science Thesis (students: Zhongyang Xiao and Luyuan Chen).
 ECE 344: Operating Systems (by Prof. Ashvin Goel).
 CSC 343: Introduction to Databases (by Dr. Marina Barsky).
 ECE 353: Systems Software (by Prof. Baochun Li).
 CSC 458: Computer Networks (by Prof. Yashar Ganjali).
 2017.09-12, 2018.09-12
 2016.01-04, 2017.01-04, 2017.01-04
 2015.09-12, 2016.09-12

Research Intern Beijing

Microsoft Research Asia, supervised by Dr. Yongqiang Xiong
Optical networking solutions for datacenter network.

RESEARCH INTERNHong Kong University of Science and Technology, supervised by Prof. Kai Chen
2013.11-2014.12

• Coflow prediction on distributed computing cluster.

• Flowlet-based load balancing scheduler in datacenter network.

FULL-STACK DEVELOPER

Shanghai

Ramy Tech Inc. 2013.06-2013.11
• Co-founder of AmyPI API Market. AmyPI Market won 2013 Yunfeng Prize funded by Alibaba Cloud Inc.

Development Intern Shanghai

Intel Asia-Pacific Research and Development Ltd.

2011.12-2012.12

• Participated in CloudScore, a performance evaluation platform for IaaS Cloud system.

RESEARCH ASSISTANTNational Undergraduate Innovation Program, Supervised by Prof. Xiaochao Zi
2009.11-2010.11

• Designed and developed a tool to detect Linux system calls and to defend buffer overflow attacks.

Selected Awards

University of Toronto Fellowship, Department of ECE, University of Toronto	2015
Edward S. Rogers Sr. Graduate Scholarships, University of Toronto	2015
Yunfeng Prize , The 2^{nd} Alibaba Cloud Computing Developer Competition (Top 1%)	2013
Second-Class Post-Graduate Scholarship, Shanghai Jiao Tong University	2012
Third Prize , The 4^{th} National College Information Security Contest	2011
Successful Participant Reward, Mathematical Contest in Modeling (MCM)	2011
Second-Class Academic Excellence Scholarship, Shanghai Jiao Tong University	2009

Skills and Others

Project Experience: MXNet, TensorFlow, Spark, Hadoop, OpenFlow, OpenStack, AWS **Programming Language**: Python, C/C++, Java, Scala, JavaScript, HTML/CSS, LATEX

English Proficiency: TOEFL: 95, GRE: 307+3.0

2015.4-2015.8