

Hao Wang

Contact Information

Phone: +1 (647) 891-0836
E-mail: haowang@ece.utoronto.ca
Webpage: <http://www.haow.ca/>

University of Toronto
10 King's College Road,
Toronto ON M5S 3G4, Canada

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

Distributed Systems, Data Center Networking, SDN and Cloud Performance Tuning

Publications

Conference Publications:

- **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:

- **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.
- **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

- Optimization on wide-area data analytics.

Toronto

2015.09-present

TEACHING ASSISTANT

University of Toronto

Toronto

- CSC 458: Computer Networks (*by Prof. Yashar Ganjali*). 2016.09-2016.12
- ECE 344: Operating Systems (*by Prof. Ashvin Goel*). 2016.09-2016.12
- CSC 343: Introduction to Databases (*by Dr. Marina Barsky*). 2016.05-2016.08
- ECE 353: Systems Software (*by Prof. Baochun Li*). 2016.01-2016.04
- CSC 458: Computer Networks (*by Prof. Yashar Ganjali*). 2015.09-2015.12

RESEARCH INTERN

Microsoft Research Asia, supervised by Dr. Yongqiang Xiong

Beijing

2015.4-2015.8

- Optical networking solutions for datacenter network.

RESEARCH INTERN

Hong Kong University of Science and Technology, supervised by Prof. Kai Chen

Hong Kong

2013.11-2014.12

- Flow prediction on distributed computing cluster.
- Flowlet-based load balancing scheme in data center network.

FULL-STACK DEVELOPER

Ramy Tech Inc.

Shanghai

2013.06-2013.11

- Co-founder of AmyPI API Market. AmyPI Market project won 2013 Yunfeng Prize funded by Aliyun Inc.

DEVELOPMENT INTERN

Intel Asia-Pacific Research and Development Ltd.

Shanghai

2011.12-2012.12

- Participated in CloudScore, a performance assessing platform for IaaS Cloud system.

RESEARCH ASSISTANT

National Undergraduate Innovation Program, Supervised by Prof. Xiaochao Zi

Shanghai

2009.11-2010.11

- Designed and developed a tool to detect Linux system call and defend buffer overflow attack.

Selected Awards

Yunfeng Prize, The 2nd Aliyun Cloud Computing Developer Competition (Top 1%)	2013
Second-Class Post Graduate Scholarship, Shanghai Jiao Tong University	2012
Third Prize, The 4th National College Information Security Contest	2011
Successful Participant Reward, Mathematical Contest in Modeling	2011
Second-Class Academic Excellence Scholarship, Shanghai Jiao Tong University	2009

Skills and Others

Project Experience: Spark, Hadoop, OpenFlow, OpenStack, Apache Storm, AWS

Programming Language: Python, C/C++, Java, Scala, JavaScript, HTML/CSS, L^AT_EX

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