Hao Wang

Contact Information

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University of Toronto
10 King's College Road,
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Education

University of Toronto — **Toronto, Canada**
Ph.D. in Computer Engineering — *Sept. 2015 - present*
Advisor: Prof. Baochun Li

Shanghai Jiao Tong University (SJTU) — **Shanghai, China**
M.E. in Software Engineering — *Sept. 2012 - Mar. 2015*

Shanghai Jiao Tong University (SJTU) — **Shanghai, China**
B.E. in Information Security — *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 — **Toronto**
University of Toronto, supervised by Prof. Baochun Li — *2015.09-present*

- Optimization on wide-area data analytics.

Teaching Assistant — **Toronto**
University of Toronto

- ECE 353: Systems Software (*by Prof. Baochun Li*). — *2016.01-present*
- CSC 458: Computer Networks (*by Prof. Yashar Ganjali*). — *2015.09-2015.12*

Research Intern **Beijing**
Microsoft Research Asia, supervised by Dr. Yongqiang Xiong *2015.4-2015.8*

- Optical networking solutions for datacenter network.

Research Intern **Hong Kong**
Hong Kong University of Science and Technology, supervised by Prof. Kai Chen *2013.11-2014.12*

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

Full-Stack Developer **Shanghai**
Ramy Tech Inc. *2013.06-2013.11*

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

Development Intern **Shanghai**
Intel Asia-Pacific Research and Development Ltd. *2011.12-2012.12*

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

Research Assistant **Shanghai**
National Undergraduate Innovation Program, Supervised by Prof. Xiaochao Zi *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, LaTeX
English Proficiency: TOEFL: 95, GRE: 307+3.0