

Dapeng Liu | Ph.D. Candidate of Computer Science

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Interests

Internet service performance measurement and management

— e.g., monitoring, anomaly detection, and troubleshooting

Data-driven research for the Internet and networking systems

— e.g., data analysis and machine learning

Education

Tsinghua University

Ph.D. candidate in Computer Science & Technology

Advisors: Dan Pei and Youjian Zhao

Research: Internet service performance measurement and analysis

Beijing, China

2010–Now (July 2016)

Harbin Institute of Technology

Bachelors in Software Engineering

Thesis: A Platform for Playing LAN Games Over the Internet

Ranked **second** among all of the 170 software engineering students in year 2010

Outstanding graduates of Heilongjiang province

Harbin, China

2006–2010

Research Experience

Web Search Performance, Baidu Inc

Intern

Research: search response time analysis and debugging

Beijing, China

Oct2014–Now

Web Search Front End, Baidu Inc

Intern

Research: anomaly detection of Web search page views (PVs)

Beijing, China

Jan2014–Oct2014

Publications

2016: Kaixin Sui, Mengyu Zhou, **Dapeng Liu**, Minghua Ma, Dan Pei, Youjian Zhao, Zimu Li, Thomas Moscibroda. Characterizing and Improving WiFi Latency in Large-Scale Operational Networks. *MobiSys 2016*. Singapore, June 2016.

2016: Kaixin Sui, Youjian Zhao, **Dapeng Liu**, Minghua Ma, Lei Xu, Li Zimu, Dan Pei. Your Trajectory Privacy Can Be Breached Even If You Walk in Groups. *IWQoS 2016 (short)*. Beijing, China, June 2016.

2016: **Dapeng Liu**, Youjian Zhao, Kaixin Sui, Lei Zou, Dan Pei, Qingqian Tao, Xiyang Chen, Dai Tan. FOCUS: Shedding Light on the High Search Response Time in the Wild. *INFOCOM 2016*. San Francisco, CA, USA, Apr 2016.

2015: **Dapeng Liu**, Youjian Zhao, Haowen Xu, Yongqian Sun, Dan Pei, Jiao Luo, Xiaowei Jing, Mei Feng. Opprentice: Towards Practical and Automatic Anomaly Detection Through Machine Learning. *ACM IMC 2015*. Tokyo, Japan, Oct 2015.

2015: **Dapeng Liu**, Youjian Zhao, Kaixin Sui, Shiwen Cheng, Dan Pei, Chengbin Quan, Jiao Luo, Xiaowei Jing, Mei Feng. Learning Thresholds for PV Change Detection from Operators' Labels. *IPCCC 2015*. Nanjing, China, Dec 2015.

2015: **Dapeng Liu**, Youjian Zhao, Dan Pei, Chengbin Quan, Qingqian Tao, Pei Wang, Xiyang Chen, Dai Tan, Xiaowei Jing, Mei Feng. Narrowing Down the Debugging Space of Slow Search Response Time. *IPCCC 2015*. Nanjing, China, Dec 2015

2014: **Dapeng Liu**, Dan Pei, and Youjian Zhao. Application-Aware Latency Monitoring for Cloud Tenants via CloudWatch+. *CNSM 2014*. Rio de Janeiro, Brazil. Nov. 2014.

2011: GuangHui Yang, Youjian Zhao, Jianping Wu, **Dapeng Liu**. Effective, lightweight failure detector for scalable switch fabrics. *Journal of Tsinghua University (Sci and Tech)*. 2011.

Computer Skills

Programming Language: Python, familiar with C++, Java, HTML, SQL

Machine Learning Tool: Scikit-learn, Weka, and Orange

Operating System: Microsoft Windows, Linux (Ubuntu), Mac OS X

Type Setting: \LaTeX , Microsoft Office

Languages

English: Basic communication/good writing skills

Chinese: Native speaker

Awards

2016: Dengfeng Foundation for Graduates (Tsinghua University)

2015: Dengfeng Foundation for Graduates (Tsinghua University)

2014: Dengfeng Foundation for Graduates (Tsinghua University)

2011: Second-grade Scholarship of Tsinghua University