

# Ben Y. Zhao

Neubauer Professor of Computer Science  
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## EDUCATION

<b>University of California at Berkeley</b> Ph.D. in Computer Science: advisors John Kubiawicz and Anthony Joseph. M.S. in Computer Science: advisor Anthony Joseph	<b>Berkeley, CA</b> August, 2004 December, 2000
<b>Yale University</b> B.S. in Computer Science Graduated Cum Laude and Distinction in the Major	<b>New Haven, CT</b> May, 1997

## RESEARCH INTERESTS

Machine Learning   Human Computer Interaction   Security and Privacy   Internet Measurements  
Distributed Systems   Mobile and Wireless Networks   Online Social Networks

## APPOINTMENTS

<b>University of Chicago</b> Neubauer Professor of Computer Science	<b>Chicago, IL</b> July 2017 — Present
<b>University of California at Santa Barbara</b> Professor of Computer Science Associate Professor of Computer Science Assistant Professor of Computer Science	<b>Santa Barbara, CA</b> July 2014 — June 2017 July 2010 — June 2014 July 2004 — June 2010
<b>Microsoft Research, Cambridge UK</b> Visiting Researcher	<b>Cambridge, UK</b> July 2007 — August 2007
<b>University of California at Berkeley</b> Graduate Student Researcher Principal architect of the Tapestry structured peer-to-peer network and founding member of the OceanStore project on highly persistent global-scale storage.	<b>Berkeley, CA</b> August 1997 — June 2004

## HONORS AND AWARDS

- **Publications with 28,000+ academic citations, H-Index = 65** (Google Scholar)
- **Best Paper Honorable Mention Award, CHI 2020** (Wearable Microphone Jammer)
- **Best Paper Honorable Mention Award, CHI 2020** (Detecting Gender Stereotypes)
- **Most Influential Paper Award, ASPLOS 2018**, (OceanStore paper ASPLOS 2000)
- **ACM Distinguished Scientist, 2015**
- **IEEE Internet Technical Committee, Early Career Award, 2014**
- **Best Practical Paper Award, ACM SIGMETRICS 2013**
- **UCSB Regent Faculty Fellowship, 2009**
- **ComputerWorld Magazine Top IT Innovators under 40, 2007**
- **MIT Technology Review TR-35 (Top 35 Technological Innovators under Age 35), 2006**
- **NSF Young Faculty Investigator (CAREER) Award, 2005**
- **Best Student Paper Award, USENIX Conference on File and Storage Technologies (FAST), 2003**
- **Best Paper Award, ACM MSWiM, 2001**
- **Best Paper Award, IEEE Computer Networks, 2001**
- **U. C. Regents Fellowship, 1998**
- **Cum Laude, Distinction in Major and Tau Beta Pi, Yale University, 1997**

## PROFESSIONAL AFFILIATIONS

Member, *Distinguished Scientist*, Association for Computing Machinery (ACM)

Member, ACM SIGOPS, ACM SIGCOMM, ACM SIGMOBILE

Member of USENIX

Member of IEEE

## PROFESSIONAL ACTIVITIES

### Conference Organization

- **General (Co-)Chair**, ACM Workshop on Hot Topics in Networks (*HotNets*), 2020
- **Program (Co-)Chair**, ACM SIGCOMM Internet Measurement Conference (*IMC*), 2018
- **Program (Co-)Chair**, International World Wide Web Conference (*WWW*), 2016
- **Steering Committee**: International Symposium on Complex Networks (*COMPLEX*)
- **Co-founder, Steering Committee**: ACM Conference on Online Social Networks (*COSN*)
- **Program Track Chair: Social Networks and Graph Analysis**, International World Wide Web Conference (*WWW*), 2013
- **Program Co-Chair**, SIGCOMM Workshop on Online Social Networks (*WOSN*), 2012
- **Program Co-Chair**, IEEE Conference on Peer-to-Peer Computing (*P2P*), 2010
- **Global Chair**, European Conference on Parallel Processing (*Euro-Par*) Topic 7, 2009
- **Steering Committee**, International Workshop on Peer-To-Peer Systems (*IPTPS*), 2007 - 2010
- **Program Co-Chair**, International Workshop on Peer-To-Peer Systems (*IPTPS*), 2006

### Selected Technical Program Committees

- **IEEE Symposium on Security and Privacy (*Oakland*)**, 2015, 2016, 2021
- **ACM SIGCOMM Internet Measurement Conference (*IMC*)**, 2012, 2013, 2015, 2016, 2018-2020
- **ACM International Conference on Web Search and Data Mining (*WSDM*)**, 2013, 2017-2018, (Senior TPC) 2019-2020
- **ACM/USENIX Symposium on Networked Systems, Design and Implementation (*NSDI*)**, 2020 (Heavy), 2014
- **ACM SIGCOMM**, (Heavy PC), 2019
- **AAAI Conference on Weblogs and Social Media (*ICWSM*)**, 2015-2019 (Senior PC), 2014
- **Privacy Enhancing Technologies Symposium (*PETS*)**, 2019
- **The International World Wide Web Conference (*WWW*)**, 2012 – 2019
- **ACM Conf. on emerging Networking EXperiments and Technologies (*CoNEXT*)**, 2011, 2016, 2018
- **ACM 9th Workshop on Hot Topics in Networks (*HotNets*)**, 2010, 2018
- **European Symposium on Research in Computer Security (*ESORICS*)**, 2016, 2017
- **ACM/IFIP/USENIX International Middleware Conference (*Middleware*)**, 2010, 2011, 2017
- **USENIX Workshop on Hot Topics in Cloud Computing (*HotCloud*)**, 2013, 2016
- **Passive and Active Measurements Conference (*PAM*)**, 2016
- **ACM Symposium on Cloud Computing (*SOCC*)**, 2015
- **ACM Web Science Conference (*WebSci*)**, 2014
- **ACM Conference on Online Social Networks (*COSN*)**, 2013, 2014, 2015
- **IEEE Annual Conference on Computer Communications (*INFOCOM*)**, 2008, 2009, 2010, 2013

- **ACM SIGCOMM International Workshop on Online Social Networks (WOSN)**, 2010, 2012
- **IEEE Conference on Peer-to-Peer Computing (P2P)**, 2009, 2010, 2012
- **ACM 12th Workshop on Mobile Computing Systems and Applications (HotMobile)**, 2011
- **IEEE Int'l Conference on Distributed Computing Systems (ICDCS)**, 2005-07, 2009, 2010, 2013
- **IEEE International Conference on Network Protocols (ICNP)**, 2006, 2007
- **IEEE International Workshop on Quality of Service (IWQoS)**, 2007
- **International Workshop on Peer-to-Peer Systems (IPTPS)**, 2005, 2006

### Journals

- **Associate Editor**, ACM Transactions on the Web, 2017 — 2019.
- **Guest Editor**, Journal of Advances in Multimedia, Special Issue: “Towards Next-Generation Peer-to-Peer Services,” Hindawi, 2007.
- **Guest Editor**, Concurrency and Computation: Practice and Experience, Special Issue: “Recent Advances in Peer-to-Peer Systems and Security,” Wiley, 2007.

### Other Appointments

- National Science Foundation (NSF) Invited Proposal Funding Panelist
  - CNS Panel: CISE Core, 2005-08, 2011-15
  - CNS Panel: CISE Cross-cutting, 2005, 2009-11, 2d013, 2014, 2017, 2018
  - CNS Panel: CAREER, 2006, 2007, 2012
- Judge for MIT Technology Review Young Innovator (TR-35): 2008, 2010-11, 2013-2020
- Hong Kong Research Grants Council Panelist: 2007, 2009-2013, 2015-2017
- Qatar Computing Research Institute Research Panelist: 2011, 2013, 2014, 2017

## PUBLICATIONS

### Journal Articles

1. “Ghost Riders: Sybil Attacks on Crowdsourced Mobile Mapping Services.” Gang Wang, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, and Ben Y. Zhao. *ACM/IEEE Transactions on Networking*, Vol. 26, Issue 3, Pgs. 1123–1136, June 2018.
2. “Benefits of Browsing? The Prevalence, Nature, and Effects of Profile Consumption Behavior in Social Network Sites.” Miriam Metzger, Christo Wilson, and Ben Y. Zhao. *International Communication Association, Journal of Computer-Mediated Communication*, 2018.
3. “Clickstream User Behavior Models.” Gang Wang, Xinyi Zhang, Shiliang Tang, Christo Wilson, Haitao Zheng, and Ben Y. Zhao. *ACM Transactions on the Web (TWEB)*, Vol. 11, No. 4, Article 21, July 2017.
4. “Value and Misinformation in Collaborative Investing Platforms.” Tianyi Wang, Gang Wang, Bolun Wang, Divya Sambasivan, Zengbin Zhang, Xing Li, Haitao Zheng and Ben Y. Zhao. *ACM Transactions on the Web (TWEB)*, Vol. 11, No. 2, May 2017.
5. “Towards Practical Spectrum Permits.” Ana Nika, Zengbin Zhang, Ben Y. Zhao and Haitao Zheng. *IEEE Transactions on Cognitive Communications and Networking (TCCN)*, Vol. 3, No. 1, March 2017.
6. “Self-similarity in Social Network Dynamics.” Qingyun Liu, Xiaohan Zhao, Walter Willinger, Xiao Wang, Ben Y. Zhao and Haitao Zheng. *ACM Transactions on Modeling and Performance Evaluation*

- of Computing Systems (TOMPECS), Vol. 2, No. 5, Pgs. 1-26, November 2016.*
7. "The Power of Comments: Fostering Social Interactions in Microblog Networks." Tianyi Wang, Yang Chen, Yi Wang, Bolun Wang, Gang Wang, Xing Li, Haitao Zheng, Ben Y. Zhao. *Frontiers of Computer Science, Vol. 10, No. 5, Pgs. 889-907, 2016.*
  8. "Understanding and Predicting Data Hotspots in Cellular Networks." Ana Nika, Asad Ismail, Ben Y. Zhao, Sabrina Gaito, Gian Paolo Rossi, Haitao Zheng. *Mobile Networks and Applications, Vol. 21, December 2015.*
  9. "Practical Conflict Graphs in the Wild." Xia Zhou, Zengbin Zhang, Gang Wang, Xiaoxiao Yu, Ben Y. Zhao and Haitao Zheng. *ACM/IEEE Transactions on Networking (ToN), Vol 23, No. 3, Pgs 824–835, June 2015.*
  10. "Uncovering Social Network Sybils in the Wild." Zhi Yang, Christo Wilson, Xiao Wang, Tingting Gao, Ben Y. Zhao and Yafei Dai. *To appear: ACM Transactions on Knowledge Discovery from Data (TKDD), Vol. 8, No. 1, February 2014.*
  11. "Preserving Location Privacy in Geo-Social Applications." Krishna P. N. Puttaswamy, Shiyuan Wang, Troy Steinbauer, Divyakant Agrawal, Amr El Abbadi, Christopher Kruegel and Ben Y. Zhao. *IEEE Transactions on Mobile Computing, Vol. 13, No. 1, Pgs 159–173, January 2014.*
  12. "Understanding Latent Interactions in Online Social Networks." Jing Jiang, Christo Wilson, Xiao Wang, Wenpeng Sha, Peng Huang, Yafei Dai and Ben Y. Zhao. *ACM Transactions on the Web (TWEB), Vol. 7, No. 4, October 2013.*
  13. "Measurement-based Design of Roadside Content Delivery Systems." Vinod Kone, Haitao Zheng, Ant Rowstron, Greg O'Shea and Ben Y. Zhao. *IEEE Transactions on Mobile Computing, Vol. 12, Number 6, Pgs. 1160-1173, June 2012. **Featured Spotlight Paper.***
  14. "The Effectiveness of Opportunistic Spectrum Access: A Measurement Study." Vinod Kone, Lei Yang, Xue Yang, Ben Y. Zhao and Haitao Zheng. *ACM/IEEE Transactions on Networking, Vol. 20, Number 6, Pgs. 2005-2016, December 2012.*
  15. "Beyond Social Graphs: User Interactions in Online Social Networks and their Implications." Christo Wilson, Alessandra Sala, Krishna P. N. Puttaswamy, and Ben Y. Zhao. *ACM Transactions on the Web (TWEB), Vol. 6, No. 4, Article 17, November 2012.*
  16. "The Impact of Infostation Density on Vehicular Data Dissemination." Vinod Kone, Haitao Zheng, Antony Rowstron and Ben Y. Zhao. *ACM Mobile Networking and Applications (MONET), No. 16, Pgs. 807-819, 2011.*
  17. "Protector: a Probabilistic Failure Detector for Cost-effective Peer-to-Peer Storage." Zhi Yang, Jian Tian, Wei Chen, Ben Y. Zhao and Yafei Dai. *IEEE Transactions on Parallel and Distributed Systems (TPDS), Vol. 22, No. 9, Pgs. 1514-1527, September 2011.*
  18. "AirLab: Consistency, Fidelity and Privacy in Wireless Measurements." Vinod Kone, Mariya Zheleva, Mike Wittie, Ben Y. Zhao, Elizabeth Belding, Haitao Zheng, Kevin Almeroth. *ACM SIGCOMM Computer Communication Review (CCR), Vol. 41, No. 1, Pgs. 60-65, January 2011.*
  19. "Papyrus: A Software Platform for Distributed Dynamic Spectrum Sharing Using SDRs." Lei Yang, Zengbin Zhang, Wei Hou, Ben Y. Zhao, and Haitao Zheng. *ACM SIGCOMM Computer Communication Review (CCR). Vol. 41, No. 1, Pgs. 32-37, January 2011.*
  20. "The Design of a Reliable Reputation System." Gayatri Swamynathan, Kevin Almeroth and Ben Y. Zhao. *Electronic Commerce Research Journal, Special Issue on Trust and Privacy Aspects of Electronic Commerce, Vol. 10, No. 3-4, Pages 239-270, 2010.*

21. "Peer-exchange schemes to handle mismatch in peer-to-peer systems." Tongqing Qiu, Edward Chan, Mao Ye, Guihai Chen, and Ben Y. Zhao. *The Journal of Supercomputing*, April 2009, Vol. 48, No. 1, Pgs. 15-42.
22. "Securing Structured Overlays Against Identity Attacks." Krishna P. N. Puttaswamy, Haitao Zheng and Ben Y. Zhao. *IEEE Transactions on Parallel and Distributed Systems*. October 2009, Vol. 20, No. 10, Pgs. 1487-1498.
23. "QUORUM-QUality Of service RoUting in wireless Mesh networks." Vinod Kone, Sudipto Das, Ben Y. Zhao and Haitao Zheng. *ACM Mobile Networks and Applications (MONET)*. December 2007, Vol. 12, No. 5-6, Pgs. 358-369.
24. "Globally Decoupled Reputations for Large Distributed Networks." Gayatri Swamynathan, Ben Y. Zhao, Kevin C. Almeroth and Haitao Zheng. *Hindawi Advances in Multimedia, Special Issue on Towards Next-Generation Peer-to-Peer Services*. Vol. 2007, No. 1, 2007.
25. "Exploring the Feasibility of Proactive Reputations." Gayatri Swamynathan, Ben Y. Zhao and Kevin C. Almeroth. *Wiley Concurrency and Computation: Practice and Experience, Special Issue on Recent Advances in Peer-to-Peer Systems and Security*. May 2007, Vol. 20, No. 2, Pgs. 155-166.
26. "Determining Model Accuracy of Network Traces." Almudena Konrad, Ben Y. Zhao, and Anthony D. Joseph. *Elsevier Journal of Computer and System Sciences*. November 2006, Vol. 72, No. 7.
27. "Collaboration and Fairness in Opportunistic Spectrum Access." Chunyi Peng, Haitao Zheng, and Ben Y. Zhao. *ACM Mobile Networks and Applications (MONET)*. May 2006, Vol. 11, Pgs. 555-576.
28. "Tapestry: A Resilient Global-scale Overlay for Service Deployment." Ben Y. Zhao, Ling Huang, Jeremy Stribling, Sean C. Rhea, Anthony D. Joseph, and John Kubiatowicz. *IEEE Journal on Selected Areas in Communications (JSAC)*. January 2004, Vol. 22, No. 1, Pgs. 41-53.
29. "Distributed Object Location in a Dynamic Network." Kirsten Hildrum, John D. Kubiatowicz, Satish Rao and Ben Y. Zhao. *Springer-Verlag Theory of Computing Systems*, March 2004, No. 37, Pgs. 405-440.
30. "A Markov-Based Channel Model Algorithm for Wireless Networks." Almudena Konrad, Ben Y. Zhao, Anthony D. Joseph and Reiner Ludwig. *ACM Baltzer Wireless Networks*, May 2003, Vol. 9, No. 3, Pgs. 189-199.
31. "Maintenance-Free Global Storage in OceanStore." Sean Rhea, Chris Wells, Patrick Eaton, Dennis Geels, Ben Zhao, Hakim Weatherspoon, and John Kubiatowicz. *IEEE Internet Computing*, Sept/Oct 2001, Vol. 5, No. 5, Pgs. 40-49.
32. "An Architecture for Secure Wide-Area Service Discovery." Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz. *ACM Baltzer Wireless Networks*, March 2002, Vol. 8, No. 2-3, Pgs. 213-230.
33. "The Ninja Architecture for Robust Internet-Scale Systems and Services." Steven D. Gribble, Matt Welsh et, al. *IEEE Computer Networks Special Issue on Pervasive Computing*, March 2001, Vol. 35, No. 4. Best Paper Award.
34. "ICEBERG: An Internet-core Network Architecture for Integrated Communications." Helen J. Wang, Bhaskaran Raman, et, al. *IEEE Communications: Special Issue on IP-based Mobile Telecommunication Networks*, August 2000.

### **Books and Chapters**

35. "Invisible Interactions: What Latent Social Interaction Can Tell Us about Social Relationships in Social Networking Sites." Miriam Metzger, Christo Wilson, Rebekah Pure, and Ben Y. Zhao. To Appear in *Networked sociability and individualism. Technology for personal and professional*

*relationships*, Editor Francesca Comunello. 2011.

36. *Future Directions in Distributed Computing*. Editors: Alex Shvartsman, Andre Schiper, Hakim Weatherspoon and Ben Y. Zhao. Springer-Verlag, LNCS 2584, 2003.

### Refereed Conference and Workshop Proceedings

\_\_\_\_\_ denotes equal contribution, co-first authors

37. “Detecting Gender Stereotypes: Evaluation and Integration of Lexicon and Supervised Learning.” Jenna Cryan, Shiliang Tang, Xinyi Zhang, Miriam Metzger, Haitao Zheng, Ben Y. Zhao. Proceedings of *ACM CHI Conference on Human Factors in Computing Systems*, Honolulu, HI, April 2020. **Best Paper Honorable Mention Award.**
38. “Wearable Microphone Jamming.” Yuxin Chen, Huiying Li, Shan-Yuan Teng, Steven Nagels, Zhijing Li, Pedro Lopes, Ben Y. Zhao, Haitao Zheng. Proceedings of *ACM CHI Conference on Human Factors in Computing Systems*, Honolulu, HI, April 2020. **Best Paper Honorable Mention Award.**
39. “Et Tu Alexa? When Commodity WiFi Devices Turn into Adversarial Motion Sensors.” Yanzi Zhu, Zhujun Xiao, Yuxin Chen, Zhijing Li, Max Liu, Ben Y. Zhao, and Haitao Zheng. Proceedings of *Network and Distributed System Security Symposium (NDSS)*, San Diego, CA, February 2020.
40. “Latent Backdoor Attacks on Deep Neural Networks.” Yuanshun Yao, Huiying Li, Haitao Zheng and Ben Y. Zhao. Proceedings of *ACM Conference on Computer and Communications Security (CCS)*, London, UK, November 2019.
41. “Safely and Automatically Updating In-Network ACL Configurations with Intent Language.” Bingchuan Tian, Xinyi Zhang, Ennan Zhai, Hongqiang Harry Liu, Qiaobo Ye, Chunsheng Wang, Xin Wu, Zhiming Ji, Yihong Sang, Ming Zhang, Da Yu, Chen Tian, Haitao Zheng, Ben Y. Zhao. Proceedings of *ACM SIGCOMM*, Beijing China, August 2019.
42. “Scaling Deep Learning Models for Spectrum Anomaly Detection.” Zhijing Li, Zhujun Xiao, Bolun Wang, Ben Y. Zhao and Haitao Zheng. Proceedings of *20th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Catania Italy, July 2019.
43. “Neural Cleanse: Identifying and Mitigating Backdoor Attacks in Neural Networks.” Bolun Wang, Yuanshun Yao, Shawn Shan, Huiying Li, Bimal Viswanath, Haitao Zheng and Ben Y. Zhao. Proceedings of *40th IEEE Symposium on Security and Privacy (Oakland)*, San Francisco CA, May 2019.
44. “Towards Understanding the Adoption and Social Experience of Digital Wallet Systems.” Shiliang Tang, Ziming Wu, Xinyi Zhang, Gang Wang, Xiaojuan Ma, Haitao Zheng and Ben Y. Zhao. Proceedings of *Hawaii International Conference on System Sciences (HICSS)*, Maui HI, January 2019.
45. “Predictive Analysis in Network Function Virtualization.” Zhijing Li, Zihui Ge, Ajay Mahimkar, Jia Wang, Ben Y. Zhao, Haitao Zheng, Joanne Emmons, and Laura Ogden. Proceedings of the *18th ACM SIGCOMM Internet Measurement Conference (IMC)*, Boston MA, November 2018.
46. “Understanding Motivations behind Inaccurate Check-ins.” Fengli Xu, Guozhen Zhang, Jiaxin Huang, Yong Li, Diyi Yang, Ben Y. Zhao, and Fanchao Meng. Proceedings of *21st ACM conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, Jersey City, NJ, November 2018.
47. “Gender Bias in the Job Market: a Longitudinal Analysis.” Shiliang Tang, Xinyi Zhang, Jenna Cryan, Miriam Metzger, Haitao Zheng and Ben Y. Zhao. Proceedings of *21st ACM conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, Jersey City, NJ, November 2018.

48. "With Great Training Comes Great Vulnerability: Practical Attacks against Transfer Learning." Bolun Wang, Yuanshun Yao, Bimal Viswanath, Haitao Zheng and Ben Y. Zhao. Proceedings of *27<sup>th</sup> USENIX Security Symposium (USENIX Security)*, Baltimore, MD, August 2018.
49. "Penny Auctions are Predictable: Predicting and profiling user behavior on DealDash." Xinyi Zhang, Shawn Shan, Shiliang Tang, Haitao Zheng and Ben Y. Zhao. Proceedings of *ACM Conference on Hypertext and Social Media (HT)*, Baltimore, MD, July 2018.
50. "DeepCredit: Clickstream-based Model for Loan Risk Prediction in P2P Lending." Zhi Yang, Yusi Zhang, Binghui Guo, Ben Zhao and Yafei Dai. Proceedings of *International AAAI Conference on Web and Social Media (ICWSM)*, Stanford, CA, June 2018.
51. "Adversarial Localization against Wireless Cameras." Zhijing Li, Zhujun Xiao, Yanzi Zhu, Irene Pattarachanyakul, Ben Y. Zhao, Haitao Zheng. Proceedings of *19<sup>th</sup> International Workshop on Mobile Computing Systems and Applications (HotMobile)*, Tempe AZ, February 2018.
52. "On Migratory Behavior in Video Consumption." Huan Yan, Tzu-Heng Lin, Gang Wang, Yong Li, Haitao Zheng, Depeng Jin and Ben Y. Zhao. Proceedings of *ACM International Conference on Information and Knowledge Management (CIKM)*, Singapore, November 2017.
53. "Complexity vs. Performance: Empirical Analysis of Machine Learning as a Service." Yuanshun Yao, Zhujun Xiao, Bolun Wang, Bimal Viswanath, Haitao Zheng and Ben Y. Zhao. Proceedings of the *17<sup>th</sup> ACM SIGCOMM Internet Measurement Conference (IMC)*, London, UK, November 2017.
54. "Automated Crowdturfing Attacks and Defenses in Online Review Systems." Yuanshun Yao, Bimal Viswanath, Jenna Cryan, Haitao Zheng and Ben Y. Zhao. Proceedings of *ACM Conference on Computer and Communications Security (CCS)*, Dallas, TX, October 2017.
55. "SecurePost: Verified Group-Anonymity on Social Media." Michael Nekrasov, Daniel Iland, Miriam Metzger, Ben Zhao and Elizabeth Belding. Proceedings of the *7<sup>th</sup> USENIX Workshop on Free and Open Communications on the Internet (FOCI)*, Vancouver, Canada, August 2017.
56. "Object Recognition and Navigation using a Single Networking Device." Yanzi Zhu, Yuanshun Yao, Ben Y. Zhao and Haitao Zheng. Proceedings of the *15<sup>th</sup> ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Niagara Falls, NY, June 2017.
57. "Echo Chambers in Investment Discussion Boards." Shiliang Tang, Qingyun Liu, Megan McQueen, Scott Counts, Apurv Jain, Haitao Zheng, and Ben Y. Zhao. Proceedings of the *International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, Canada, May 2017.
58. "Cold Hard E-Cash: Friends and Vendors in the Venmo Digital Payments System." Xinyi Zhang, Shiliang Tang, Yun Zhao, Gang Wang, Haitao Zheng, and Ben Y. Zhao. Proceedings of the *International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, Canada, May 2017.
59. "A First Look at User Switching Behaviors over Multiple Video Content Providers." Huan Yan, Tzu-Heng Lin, Gang Wang, Yong Li, Haitao Zheng, Depeng Jin, Ben Y. Zhao. Proceedings of the *International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, Canada, May 2017.
60. "Passive Social Interaction in Social Networking Sites." Miriam Metzger, Christo Wilson, Ben Y. Zhao. Proceedings of the *67<sup>th</sup> Annual International Communication Association Conference (ICA)*, San Diego, CA, May 2017.
61. "Identifying Value in Crowdsourced Wireless Signal Measurements." Zhijing Li, Ana Nika, Xinyi Zhang, Yanzi Zhu, Yuanshun Yao, Ben Y. Zhao and Haitao Zheng. Proceedings of the *26<sup>th</sup> World Wide Web Conference (WWW)*, Perth, Australia, April 2017.
62. "Trimming the Smartphone Network Stack." Yanzi Zhu, Yibo Zhu, Ana Nika, Ben Y. Zhao, Haitao Zheng. Proceedings of the *15<sup>th</sup> ACM Workshop on Hot Topics in Networks (HotNets)*, Atlanta, GA,

November 2016.

63. "Anatomy of a Personalized Livestreaming System." Bolun Wang, Xinyi Zhang, Gang Wang, Haitao Zheng, Ben Y. Zhao. Proceedings of the *16th ACM SIGCOMM Internet Measurement Conference (IMC)*, Santa Monica, CA, November 2016
64. "Network Growth and Link Prediction Through an Empirical Lens." Qingyun Liu, Shiliang Tang, Xinyi Zhang, Xiaohan Zhao, Ben Y. Zhao and Haitao Zheng. Proceedings of the *16th ACM SIGCOMM Internet Measurement Conference (IMC)*, Santa Monica, CA, November 2016.
65. "Empirical Validation of Commodity Spectrum Monitoring." Ana Nika, Zhijing Li, Yanzi Zhu, Yibo Zhu, Ben Y. Zhao, Xia Zhou, and Haitao Zheng. Proceedings of *ACM Conference on Embedded Networked Sensor Systems (SenSys)*, Stanford, CA, November 2016.
66. "On the Performance of Cloud Storage Applications with Global Measurement." Guangyuan Wu, Fangming Liu, Haowen Tang, Keke Huang, Qixia Zhang, Zhenhua Li, Ben Y. Zhao, Hai Jin. Proceedings of *ACM/IEEE International Symposium on Quality of Service (IWQoS)*, Beijing, China, June 2016.
67. "Defending against Sybil Devices in Crowdsourced Mapping Services." Gang Wang, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, Ben Y. Zhao. Proceedings of *14th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Singapore, June 2016.
68. "'Will Check-in for Badges': Understanding Bias and Misbehavior on Location-based Social Networks." Gang Wang, Sarita Y. Schoenebeck, Haitao Zheng, Ben Y. Zhao. Proceedings of *10th International AAAI Conference on Web and Social Media (ICWSM)*, Cologne, Germany, May 2016.
69. "Unsupervised Clickstream Clustering For User Behavior Analysis." Gang Wang, Xinyi Zhang, Shiliang Tang, Haitao Zheng, Ben Y. Zhao. Proceedings of *SIGCHI Conference on Human Factors in Computing Systems (CHI)*, San Jose CA, May 2016.
70. "Exploring Cross-Application Cellular Traffic Optimization with Baidu TrafficGuard." Zhenhua Li, Weiwei Wang, Tianyin Xu, Xin Zhong, Xiang-Yang Li, Yunhao Liu, Christo Wilson, Ben Y. Zhao. Proceedings of *13th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, Santa Clara CA, March 2016.
71. "Towards Graph Watermarks." Xiaohan Zhao, Qingyun Liu, Haitao Zheng and Ben Y. Zhao. Proc. of *3rd ACM Conference on Online Social Networks (COSN)*, Stanford, CA, November 2015.
72. "Process-driven Analysis of Dynamics in Online Social Interactions." Zhi Yang, Jilong Xue, Christo Wilson, Ben Y. Zhao, and Yafei Dai. Proc. of *3rd ACM Conference on Online Social Networks (COSN)*, Stanford, CA, November 2015.
73. "Practical 60GHz Mobile Radar." Yanzi Zhu, Yibo Zhu, Ben Y. Zhao and Haitao Zheng. Proc. of *21st Annual International Conference on Mobile Computing and Networking (MOBICOM)*, Paris, France, September 2015.
74. "Packet-Level Telemetry in Large Datacenter Networks." Yibo Zhu, Nanxi Kang, Jiaxin Cao, Albert Greenberg, Guohan Lu, Ratul Mahajan, Dave Maltz, Lihua Yuan, Ming Zhang, Haitao Zheng, Ben Y. Zhao. Proc. of *ACM SIGCOMM*, London, UK, August 2015.
75. "Energy and Performance of Smartphone Radio Bundling in Outdoor Environments." Ana Nika, Yibo Zhu, Ning Ding, Abhilash Jindal, Y. Charlie Hu, Xia Zhou, Ben Y. Zhao and Haitao Zheng. Proc. of the *24th International World Wide Web Conference (WWW)*, Florence, Italy, May 2015.
76. "60GHz Mobile Imaging Radar." Yibo Zhu, Yanzi Zhu, Zengbin Zhang, Ben Y. Zhao, Haitao Zheng. Proceedings of *16th Workshop on Mobile Computing Systems and Applications (HotMobile)*, Santa Fe,



NM, February 2015.

77. "Crowds on Wall Street: Extracting Value from Collaborative Investing Platforms." Gang Wang, Tianyi Wang, Bolun Wang, Divya Sambasivan, Zengbin Zhang, Haitao Zheng, Ben Y. Zhao. Proceedings of *18th ACM conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, Vancouver BC, Canada, March 2015.
78. "Whispers in the Dark: Analysis of an Anonymous Social Network." Gang Wang, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, Ben Y. Zhao. Proceedings of the *14th ACM SIGCOMM Internet Measurement Conference (IMC)*, Vancouver BC, Canada, November 2014.
79. "Towards Commoditized Real-time Spectrum Monitoring." Ana Nika, Zengbin Zhang, Xia Zhou, Ben Y. Zhao, Haitao Zheng. Proceedings of *First ACM Workshop on Hot Topics in Wireless (HotWireless)*, Maui, HI, September 2014.
80. "Cutting the Cord: a Robust Wireless Facilities Network for Data Centers." Yibo Zhu, Xia Zhou, Zengbin Zhang, Lin Zhou, Amin Vahdat, Ben Y. Zhao, Haitao Zheng. Proceedings of *20th Annual International Conference on Mobile Computing and Networking (MOBICOM)*, Maui, HI, Sept. 2014.
81. "Demystifying 60GHz Outdoor Picocells." Yibo Zhu, Zengbin Zhang, Zhinous Marzi, Chris Nelson, Upamanyu Madhow, Ben Y. Zhao, Haitao Zheng. Proceedings of *20th Annual International Conference on Mobile Computing and Networking (MOBICOM)*, Maui, HI, September 2014.
82. "Understanding Data Hotspots in Cellular Networks." Ana Nika, Asad Ismail, Ben Y. Zhao, Sabrina Gaito, Haitao Zheng. Proceedings of the *10th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine)*, Rhodes, Greece, August 2014.
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