Ben Y. Zhao

Neubauer Professor of Computer Science
University of Chicago

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EDUCATION

University of California at Berkeley — **Berkeley, CA**
Ph.D. in Computer Science: advisors John Kubiatowicz and Anthony Joseph. — August, 2004
M.S. in Computer Science: advisor Anthony Joseph — December, 2000

Yale University — **New Haven, CT**
B.S. in Computer Science — May, 1997
Graduated Cum Laude and Distinction in the Major

RESEARCH INTERESTS

Data Mining	Human Computer Interaction	Security and Privacy	Internet Measurements
Distributed Systems	Mobile and Wireless Networks	Online Social Networks	

APPOINTMENTS

University of Chicago — **Chicago, IL**
Neubauer Professor of Computer Science — July 2017 — Present

University of California at Santa Barbara — **Santa Barbara, CA**
Professor of Computer Science — July 2014 — June 2017
Associate Professor of Computer Science — July 2010 — June 2014
Assistant Professor of Computer Science — July 2004 — June 2010

Microsoft Research, Cambridge UK — **Cambridge, UK**
Visiting Researcher — July 2007 — August 2007

University of California at Berkeley — **Berkeley, CA**
Graduate Student Researcher — August 1997 — June 2004
Principal architect of the Tapestry structured peer-to-peer network and
founding member of the OceanStore project on highly persistent global-scale storage.

HONORS AND AWARDS

- **Publications with 23,000+ academic citations, H-Index = 58** (Google Scholar)
- **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

- **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
- **Web Chair**, IEEE International Conference on Network Protocols (ICNP), 2006
- **Steering Committee**, Applications and Economics of Peer-to-Peer Systems (AEPP)
- **Panel Chair**, Applications and Economics of Peer-to-Peer Systems (AEPP), 2005

Technical Program Committees

- **The International World Wide Web Conference (*WWW*),** 2012 – 2017
- **ACM International Conference on Web Search and Data Mining (*WSDM*)**, 2013, 2017
- **European Symposium on Research in Computer Security (*ESORICS*)**, 2016, 2017
- **ACM/IFIP/USENIX International Middleware Conference (*Middleware*)**, 2010, 2011, 2017
- **IEEE Symposium on Security and Privacy (*Oakland*),** 2015, 2016
- **ACM SIGCOMM Internet Measurement Conference (*IMC*),** 2012, 2013, 2015, 2016
- **AAAI Conference on Weblogs and Social Media (*ICWSM*),** 2015-2017 (Senior PC), 2014
- **ACM International Conference on emerging Networking EXperiments and Technologies (*CoNEXT*),** 2011, 2016
- **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/USENIX Symposium on Networked Systems, Design and Implementation (*NSDI*),** 2014
- **ACM Web Science Conference (*WebSci*),** 2014
- **ACM Conference on Online Social Networks (*COSN*),** 2013, 2014, 2015
- **IEEE Conference on Communications and Network Security (*IEEE CNS*)**, 2014
- **IEEE International Conference on Big Data (*BigData*), Senior TPC,** 2014
- **IEEE Annual Conference on Computer Communications (*INFOCOM*)**, 2008, 2009, 2010, 2013
- **ACM SIGCOMM International Workshop on Online Social Networks (*WOSN*),** 2010, 2012
- **ACM EuroSys International Workshop on Social Network Systems (*SNS*),** 2010, 2012
- **IEEE Conference on Peer-to-Peer Computing (*P2P*)**, 2009, 2010, 2012

- **IEEE Workshop on Simplifying Complex Networks for Practitioners (*SIMPLEX*)**, 2011
- **ACM 12th Workshop on Mobile Computing Systems and Applications (*HotMobile*),** 2011
- **ACM 9th Workshop on Hot Topics in Networks (*HotNets*),** 2010
- **IEEE Conference on World of Wireless, Mobile and Multimedia Networks (*WoWMoM*),** 2010
- **IEEE International Conference on Distributed Computing Systems (*ICDCS*)**, 2005, 2006, 2007, 2009, 2010, 2013
- **IEEE Symposium on Reliable Distributed Systems (*SRDS*)**, 2009
- **ICST Conference on Security and Privacy in Communication Networks (*SecureComm*)**, 2009
- **International Conference on Web Information Systems Engineering (*WISE*)**, 2009
- **International Workshop on Performance Modeling and Evaluation (*PMECT*)**, 2007, 2008, 2009
- **IEEE International Workshop on Performance Modeling and Analysis of Communication in Wired and Wireless Networks (*PMAC-2WN*)**, 2006, 2007, 2008
- **IEEE International Conference on Parallel and Distributed Systems (*ICPADS*)**, 2007, 2008
- **IEEE International Workshop on Mobile Vehicular Networks (*MoVeNet*)**, 2007
- **IEEE International Conference on Network Protocols (*ICNP*)**, 2006, 2007
- **IEEE International Workshop on Quality of Service (*IWQoS*)**, 2007
- **International Workshop on Dependable and Sustainable Peer-to-Peer Systems (*DAS-P2P*)**, 2007
- **ACM Workshop on Decentralized Resource Sharing in Mobile Computing and Networking (*MobiShare*)**, 2006
- **ACM Workshop on Scalable Trusted Computing (*STC*)**, 2006
- **International Workshop on Peer-to-Peer Systems (*IPTPS*)**, 2005, 2006
- **Advanced in Peer-to-Peer Multimedia Streaming (*P2MS*)**, 2005
- **ACM Workshop on Wireless Security (*WiSe*)**, 2005
- **International Workshop on Applications and Economics of P2P Systems (*AEPP*)**, 2005
- **IFIP Networking Conference**, 2005
- **International Workshop on Mobile Peer-to-Peer Computing (*MP2P*)**, 2004

Journal Editorship

- **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
- Telefonica Labs Steering Committee (2014 - Present)
- National Science Foundation (NSF) Invited Proposal Funding Panelist
    - CNS Panel: CISE Core, 2005, 2006, 2007, 2008, 2011, 2012, 2013, 2014, 2015
    - CNS Panel: CISE Cross-cutting, 2005, 2009, 2010, 2011, 2013, 2014, 2017
    - CNS Panel: CAREER, 2006, 2007, 2012
- Judge for MIT Technology Review Young Innovator (TR-35): 2008, 2010, 2011, 2013-2017
- Hong Kong Research Grants Council Panelist: 2007, 2009-2013, 2015-2017
- Canadian Research Council Panelist: 2009-2012
- Qatar Computing Research Institute Research Panelist: 2011, 2013, 2014

PUBLICATIONS

Journal Articles

1. "Clickstream User Behavior Models." Gang Wang, Xinyi Zhang, Shiliang Tang, Christo Wilson, Haitao Zheng, and Ben Y. Zhao. *To Appear: ACM Transactions on the Web (TWEB),* 2017.

2. "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. *To Appear: ACM Transactions on the Web (TWEB),* 2017.

3. "Towards Practical Spectrum Permits." Ana Nika, Zengbin Zhang, Ben Y. Zhao and Haitao Zheng. *To Appear: IEEE Transactions on Cognitive Communications and Networking*, 2017.

4. "Self-similarity in Social Network Dynamics." Qingyun Liu, Xiaohan Zhao, Walter Willinger, Xiao Wang, Ben Y. Zhao and Haitao Zheng. *To Appear: ACM Transactions on Modeling and Performance Evaluation of Computing Systems (TOMPECS)*, 2016.

5. "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.

6. "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.

7. "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.

8. "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.

9. "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.

10. "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.

11. "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.**

12. "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.

13. "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.

14. "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.

15. "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.

16. "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.

17. "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.

18. "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.

19. "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.

20. "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.

21. "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.

22. "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.

23. "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.

24. "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.

25. "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.

26. "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.

27. "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.

28. "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.

29. "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.

30. "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.

31. "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.

32. "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

33. **"**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.

34. *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

35. "Object Recognition and Navigation using a Single Networking Device." Yanzi Zhu, Yuanshun Yao, Ben Y. Zhao and Haitao Zheng. Proceedings of the *15th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Niagara Falls, NY, June 2017.

36. "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.

37. "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.

38. "Passive Social Interaction in Social Networking Sites." Miriam Metzger, Christo Wilson, Ben Y. Zhao. Proceedings of the *67th Annual International Communication Association Conference (ICA)*, San Diego, CA, May 2017.

39. "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 *26th World Wide Web Conference (WWW)*, Perth, Australia, April 2017.

40. "Trimming the Smartphone Network Stack." Yanzi Zhu, Yibo Zhu, Ana Nika, Ben Y. Zhao, Haitao Zheng. Proceedings of the *15th ACM Workshop on Hot Topics in Networks (HotNets)*, Atlanta, GA, November 2016.

41. "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

42. "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.

43. "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.

44. "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.

45. "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.

46. "'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.

47. "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.

48. "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 13*th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, Santa Clara CA, March 2016.

49. "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.

50. "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.

51. "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.

52. "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.

53. "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.

54. "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.

55. "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.

56. "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.

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57. "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.

58. "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 2*0th Annual International Conference on Mobile Computing and Networking (MOBICOM),* Maui, HI, Sept. 2014.

59. "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.

60. "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.

61. "Man vs. Machine: Practical Adversarial Detection of Malicious Crowdsourcing Workers." Gang Wang, Tianyi Wang, Haitao Zheng, Ben Y. Zhao. Proceedings of the *23rd USENIX Security Symposium (Usenix Security)*, San Diego, CA, August 2014.

62. "Link and Triadic Closure Delay: Temporal Metrics for Social Network Dynamics." Matteo Zignani, Sabrina Gaito, Gian Paolo Rossi, Xiaohan Zhao, Haitao Zheng, Ben Y. Zhao. Proceedings of *8th AAAI International Conference on Weblogs and Social Media (ICWSM)*, Ann Arbor, MI, June 2014.

63. "On the Embeddability of Random Walk Distances." Xiaohan Zhao, Adelbert Chang, Atish Das Sarma, Haitao Zheng and Ben Y. Zhao. Proceedings of *the VLDB Endowment, Vol. 6, No. 14*. Presentation at the *40th International Conference on Very Large Data Bases (VLDB/PVLDB)*, Hangzhou, China, September, 2014.

64. "Efficient Batched Synchronization in Dropbox-like Cloud Storage Services." Zhenhua Li, Christo Wilson, Zhefu Jiang, Yao Liu, Ben Zhao, Cheng Jin, Zhi-Li Zhang and Yafei Dai. Proceedings of ACM International Middleware Conference (Middleware), Beijing, China, December, 2013.

65. "On the Validity of Geosocial Mobility Traces." Zengbin Zhang, Lin Zhou, Xiaohan Zhao, Gang Wang, Yu Su, Miriam Metzger, Haitao Zheng and Ben Y. Zhao. Proceedings of ACM Workshop on Hot Topics in Networks (HotNets-XII), College Park, MD, November, 2013.

66. "Follow the Green: Growth and Dynamics in Twitter Follower Markets." Gianluca Stringhini, Gang Wang, Manuel Egele, Christopher Kruegel, Giovanni Vigna, Haitao Zheng, Ben Y. Zhao. Proceedings of the 13th *ACM SIGCOMM Internet Measurement Conference (IMC),* Barcelona, Spain, October 2013.

67. "You are How You Click: Clickstream Analysis for Sybil Detection." Gang Wang, Tristan Konolige, Christo Wilson, Xiao Wang, Haitao Zheng and Ben Y. Zhao. Proceedings of the *22nd USENIX Security Symposium (USENIX Security)*, Washington, DC, August 2013.

68. "Practical Conflict Graphs for Dynamic Spectrum Distribution." Xia Zhou, Zengbin Zhang, Gang Wang, Xiaoxiao Yu, Ben Y. Zhao and Haitao Zheng. Proceedings of *ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS)*, Pittsburgh, PA, June 2013. **Best Practical Paper Award.**

69. "Wisdom in the Social Crowd: an Analysis of Quora." Gang Wang, Konark Gill, Manish Mohanlal, Haitao Zheng and Ben Y. Zhao. Proceedings of *The 22nd International World Wide Web Conference (WWW)*, Rio de Janeiro, Brazil, May 2013.

70. "Social Turing Tests: Crowdsourcing Sybil Detection." Gang Wang, Manish Mohanlal, Christo Wilson, Xiao Wang, Miriam Metzger, Haitao Zheng and Ben Y. Zhao. Proceedings of the 20th *Network &*

Distributed System Security Symposium (NDSS), San Diego, CA, February 2013.

71. **"**Multi-scale Dynamics in a Massive Online Social Network." Xiaohan Zhao, Alessandra Sala, Christo Wilson, Xiao Wang, Sabrina Gaito, Haitao Zheng and Ben Y. Zhao. Proceedings of the 12th *ACM SIGCOMM Internet Measurement Conference (IMC),* Boston, MA, November 2012.

72. "On the Bursty Evolution of Online Social Networks." Sabrina Gaito, Matteo Zignani, Gian Paolo Rossi, Alessandra Sala, Xiaohan Zhao, Xiao Wang, Haitao Zheng and Ben Y. Zhao. Proceedings of *ACM KDD HotSocial Workshop*, Beijing, China, August 2012.

73. "Mirror Mirror on the Ceiling: Flexible Wireless Links for Data Centers." Xia Zhao, Zengbin Zhang, Yibo Zhu, Yubo Li, Saipriya Kumar, Amin Vahdat, Ben Y. Zhao and Haitao Zheng. Proceedings of *ACM SIGCOMM*, Helsinki, Finland, August 2012.

74. "Shortest Paths in Less Than a Millisecond." Rachit Agarwal, Matthew Caesar, P. Brighten Godfrey and Ben Y. Zhao. Proceedings of *SIGCOMM Workshop on Online Social Networks (WOSN)*, Helsinki, Finland, August 2012.

75. "Enforcing Dynamic Spectrum Access with Spectrum Permits." Lei Yang, Zengbin Zhang, Ben Y. Zhao, Christopher Kruegel and Haitao Zheng. Proceedings of the *13th International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Hilton Head Island, SC, June 2012.

76. **"**Invisible Interactions: What Latent Social Interaction Can Tell Us about Social Relationships in Social Networking Sites." Miriam Metzger, Christo Wilson, Rebekah Pure, Ben Y. Zhao. Proceedings of the *International Communication Association Conference (ICA),* Phoenix, AZ, May 2012.

77. "Serf and Turf: Crowdturfing for Fun and Profit." Gang Wang, Christo Wilson, Xiaohan Zhao, Yibo Zhu, Manish Mohanlal, Haitao Zheng and Ben Y. Zhao. Proceedings of *The 21st International World Wide Web Conference (WWW)*, Lyon, France, April 2012.

78. "3D Beamforming for Wireless Data Centers." Weile Zhang, Xia Zhou, Lei Yang, Zengbin Zhang, Ben Y. Zhao and Haitao Zheng. Proceedings of *10th ACM Workshop on Hot Topics in Networks (HotNets-X)*, Cambridge, MA, November 2011.

79. "Efficient Shortest Paths on Massive Social Graphs." Xiaohan Zhao, Alessandra Sala, Haitao Zheng and Ben Y. Zhao. (Invited Paper) Proceedings of *7th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom)*, Orlando, FL, October 2011.

80. **"**Scaling Microblogging Services with Divergent Traffic Demands." Tianyin Xu, Yang Chen, Lei Jiao, Ben Zhao, Pan Hui and Xiaoming Fu. Proceedings of the 12th *ACM/IFIP/USENIX International Middleware Conference (Middleware)*, Lisboa, Portugal, December 2011.

81. "Sharing Graphs using Differentially Private Graph Models." Alessandra Sala, Xiaohan Zhao, Christo Wilson, Haitao Zheng and Ben Y. Zhao. Proceedings of the *11th ACM SIGCOMM International Measurement Conference (IMC)*, Berlin, Germany, November 2011.

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