

QIN “CHRISTINE” LV

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RESEARCH OVERVIEW

- **Theme of research:** Full-stack data analytics – integration of systems, algorithms & applications for effective & efficient data analytics in ubiquitous computing & scientific discovery
- **Areas of research:** Mobile/wearable/IoT sensing, data fusion, spatial-temporal data analysis, anomaly detection, recommendation, behavior analysis, social networks, cybersafety
- **Application domains:** Earth sciences, electrified transportation, renewable and sustainable energy, environmental science, and information needs in people’s daily life

EDUCATION

Ph.D.	2006	Computer Science, Princeton University Advisor: Kai Li
M.A.	2002	Computer Science, Princeton University
B.E.	2000	Computer Science & Technology Tsinghua University
<i>summa cum laude</i>		

PROFESSIONAL APPOINTMENTS

- **University of Colorado Boulder**, Boulder, CO
Co-Associate Chair for Graduate Education Jan. 2018 - present
Co-Graduate Director Jan. 2015 - Dec. 2017
Professor Aug. 2021 - present
Associate Professor Aug. 2014 - Aug. 2021
Assistant Professor Aug. 2008 - Aug. 2014
- **NSF ASPIRE Engineering Research Center (ERC)**
Campus Director for University of Colorado Boulder Sep. 2020 - present
- **Renewable and Sustainable Energy Institute (RASEI)**, Boulder, CO
Affiliate 2010 - present
- **Stony Brook University (SUNY)**, Stony Brook, NY
Assistant Professor Sep. 2007 - Aug. 2008
- **Princeton University**, Princeton, NJ
Postdoctoral Research Associate Oct. 2006 - Jul. 2007

HONORS & AWARDS

- **Distinguished Paper Award:** Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT). Volume 4. 2021.
- **Best Paper Award:** The 13th IEEE International Conference on Social Computing and Networking (SocialCom 2020)
- **National Science Foundation (NSF) Computer Systems Research (CSR) Spotlight Project:** OutWithFriendz and GEVR (2019)
- **Best Poster Award:** The 20th ACM International Workshop on Mobile Computing Systems and Applications (HotMobile 2019)
- **Best Paper Runner-up Award:** The 16th ACM Conference on Embedded Networked Sensor Systems (SenSys 2018)
- **Ten Year Best Paper Award:** The 43rd International Conference on Very Large Data Bases (VLDB 2017)
- **2017 Google Faculty Research Award**
- **Best Student Paper Award:** The 29th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2017)
- **Best Paper Award Nomination:** The 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2014)
- **Computational Sustainability Award:** The 10th International Conference on Pervasive Computing (Pervasive 2012)
- **Best Paper Award Nomination:** The 2010 ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED 2010)

PUBLICATIONS

Goole Scholar: <https://scholar.google.com/citations?hl=en&user=dTkWR0MAAAAJ>

Journal Articles

1. Priyam T, Ruan T, Lv Q. Demographic-Based Public Perception Analysis of Electric Vehicles on Online Social Networks. *Sustainability*. 16 (1) (December 28, 2023): 305-305. (Published online December 28, 2023)
2. Ruan T, Lv Q. Public perception of electric vehicles on Reddit and Twitter: A cross-platform analysis. *Transportation Research Interdisciplinary Perspectives*. 21 (September 2023): 100872.
3. Qi X, Lu Q, Pan W, Zhao Y, Zhu R, Dong M, Chang Y, Lv Q, Dick RP, Yang F, et. al. CASES: A Cognition-Aware Smart Eyewear System for Understanding How People Read. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol-IMWUT*. 7 (3) (September 2023): ARTN 115.

4. Hoelzemann A, Romero JL, Bock M, Van Laerhoven K, Lv Q. 2023. Hang-Time HAR: A Benchmark Dataset for Basketball Activity Recognition Using Wrist-Worn Inertial Sensors. *SENSORS*. 23 (13) (July 2023): ARTN 5879.
5. Yingying Zhao, Ning Li, Wentao Pan, Yujiang Wang, Mingzhi Dong, Xianghua (Sharon) Ding, **Qin Lv**, Robert P. Dick, Dongsheng Li, Fan Yang, Tun Lu, Ning Gu, and Li Shang. 2023. Unveiling Causal Attention in Dogs' Eyes with Smart Eyewear. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.* 6, 4, Article 199 (December 2022), 33 pages. <https://doi.org/10.1145/3569490>
6. Tao Ruan and **Qin Lv**. 2022. Public perception of electric vehicles on reddit over the past decade. *Communications in Transportation Research* 2, 100070. <https://doi.org/10.1016/j.commtr.2022.100070>.
7. Yichen Wang, Richard Han, Tamara Lehman, **Qin Lv**, Shivakant Mishra. 2022. Do Twitter users change their behavior after exposure to misinformation? An in-depth analysis. *Social Network Analysis and Mining* 12, 167. <https://doi.org/10.1007/s13278-022-00992-8>
8. Julia Romero and **Qin Lv**. 2022. Global Impact of COVID-19 Pandemic on Physical Activity Habits of Competitive Runners: An Analysis of Wearable Device Data. *International Journal of Environmental Research and Public Health* 19, no. 19: 12933. <https://doi.org/10.3390/ijerph191912933>
9. Yingying Zhao, Yuhu Chang, Yutian Lu, Yujiang Wang, Mingzhi Dong, **Qin Lv**, Robert P. Dick, Fan Yang, Tun Lu, Ning Gu, and Li Shang. 2022. Do Smart Glasses Dream of Sentimental Visions? Deep Emotionship Analysis for Eyewear Devices. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.* 6, 1, Article 38 (March 2022), 29 pages. <https://doi.org/10.1145/3517250>
10. Yutian Lu, Bo Wang, Yingying Zhao, Xiaochen Yang, Lizhe Li, Mingzhi Dong, **Qin Lv**, Fujian Zhou, Ning Gu, Li Shang. 2022. Physics-informed surrogate modeling for hydrofracture geometry prediction based on deep learning. *Energy* 253, 124139. <https://doi.org/10.1016/j.energy.2022.124139>.
11. Tao Ruan, Qingkai Kong, Sara K. McBride, Amatullah Sethjiwala, **Qin Lv**. 2022. Cross-platform analysis of public responses to the 2019 Ridgecrest earthquake sequence on Twitter and Reddit. *Scientific Reports* 12, 1634. <https://doi.org/10.1038/s41598-022-05359-9>
12. Yuhu Chang, Yingying Zhao, Mingzhi Dong, Yujiang Wang, Yutian Lu, **Qin Lv**, Robert P. Dick, Tun Lu, Ning Gu, and Li Shang. 2021. MemX: An Attention-Aware Smart Eyewear System for Personalized Moment Auto-capture. *Proc. ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)* 5, 2, Article 56 (June 2021), 23 pages. <https://doi.org/10.1145/3463509>
13. Upasana Dutta, Rhett Hanscom, Jason Shuo Zhang, Richard Han, Tamara Lehman, **Qin Lv**, and Shivakant Mishra. 2021. Analyzing Twitter Users' Behavior Before and After Contact by the Russia's Internet Research Agency. *Proc. ACM Hum.-Comput. Interact.* 5, CSCW1, Article 90 (April 2021), 24 pages. <https://doi.org/10.1145/3449164>
14. Kai Niu, Fusang Zhang, Xuanzhi Wang, **Qin Lv**, Haitong Luo and Daqing Zhang. 2021. Understanding WiFi Signal Frequency Features for Position-Independent Gesture Sensing. *IEEE Transactions on Mobile Computing (TMC)*. <https://doi.org/10.1109/TMC.2021.3063135>.

15. Yingying Zhao, Mingzhi Dong, Yujiang Wang, Da Feng, **Qin Lv**, Robert P. Dick, Dongsheng Li, Tun Lu, Ning Gu, Li Shang. 2021. A Reinforcement-Learning-based Energy-Efficient Framework for Multi-Task Video Analytics Pipeline. *IEEE Transactions on Multimedia*. <https://doi.org/10.1109/TMM.2021.3076612>
16. Shengjie Li, Zhaopeng Liu, Yue Zhang, **Qin Lv**, Xiaopeng Niu, Leye Wang, and Daqing Zhang. 2020. WiBorder: Precise Wi-Fi based Boundary Sensing via Through-wall Discrimination. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, 4(3), Article 89 (September 2020), 30 pages. <https://doi.org/10.1145/3411834>
17. Fusang Zhang, Zhaoxin Chang, Kai Niu, Jie Xiong, Beihong Jin, **Qin Lv**, and Daqing Zhang. 2020. Exploring LoRa for Long-range Through-wall Sensing. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, 4(2), Article 68 (June 2020), 27 pages. <https://doi.org/10.1145/3397326>
18. Jiangtao Wang, Junyi Ma, Yasha Wang, Ning Wang, Leye Wang, Daqing Zhang, Feng Wang, and **Qin Lv**. 2020. Will Online Digital Footprints Reveal Your Relationship Status? An Empirical Study of Social Applications for Sexual-Minority Men. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, 4(1), Article 29 (March 2020), 23 pages. <https://doi.org/10.1145/3380978>
19. Jiangtao Wang, Feng Wang, Yasha Wang, Leye Wang, Zhaopeng Qiu, Daqing Zhang, Bin Guo, and **Qin Lv**. 2020. HyTasker: Hybrid Task Allocation in Mobile Crowd Sensing. *IEEE Transactions on Mobile Computing (TMC)*, 19(3):598–611 (March 2020). <https://doi.org/10.1109/TMC.2019.2898950>
20. Yingying Zhao, Dongsheng Li, Tun Lu, **Qin Lv**, Ning Gu, and Li Shang. 2020. Collaborative Fault Detection for Large-scale Photovoltaic Systems. *IEEE Transactions on Sustainable Energy (TSE)*, (Feb 2020), 10 pages. <https://doi.org/10.1109/TSTE.2020.2974404>
21. Jason Shuo Zhang, Chenhao Tan, and **Qin Lv**. 2019. Intergroup Contact in the Wild: Characterizing Language Differences between Intergroup and Single-group Members in NBA-related Discussion Forums. *Proceedings of the ACM on Human-Computer Interaction*, 3, CSCW, Article 193 (November 2019), 35 pages. <https://doi.org/10.1145/3359295>
22. Kai Niu, Fusang Zhang, Yuhang Jiang, Jie Xiong, **Qin Lv**, Youwei Zeng, and Daqing Zhang. 2019. WiMorse: A Contactless Morse Code Text Input System using Ambient WiFi signals. *IEEE Internet of Things Journal (IOTJ)*, 6(6):9993–10008 (December 2019). <https://doi.org/10.1109/JIOT.2019.2934904>
23. Jason Shuo Zhang, Mike Gartrell, Richard Han, **Qin Lv**, and Shivakant Mishra. 2019. GEVR: An Event Venue Recommendation System for Groups of Mobile Users. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)* 3(1), Article 34 (March 2019), 25 pages. <https://doi.org/10.1145/3314421>
24. Jiangtao Wang, Yasha Wang, Daqing Zhang, **Qin Lv**, and Chao Chen. 2019. Crowd-Powered Sensing and Actuation in Smart Cities: Current Issues and Future Directions. *IEEE Wireless Communications*, 26(2):86–92 (April 2019). <https://doi.org/10.1109/MWC.2019.1800030>

25. Jason Shuo Zhang and **Qin Lv**. 2019. Understanding Event Organization at Scale in Event-Based Social Networks. *ACM Transactions on Intelligent Systems and Technologies (TIST)*, 10(2), Article 16 (February 2019), 23 pages. <https://doi.org/10.1145/3243227>
26. Jiangtao Wang, Yasha Wang, and **Qin Lv**. 2019. Crowd-Assisted Machine Learning: Current Issues and Future Directions. *IEEE Computer*, 52(1):46–53 (January 2019). <https://doi.org/10.1109/MC.2018.2890174>
27. Qingkai Kong, Asaf Inbal, Richard M. Allen, **Qin Lv**, and Arno Puder. 2018. Machine Learning Aspects of the MyShake Global Smartphone Seismic Network. *Seismological Research Letters (SRL)*, 90(2A): 546–552 (Dec 2018). <https://doi.org/10.1785/0220180309>
28. Jason Shuo Zhang, Chenhao Tan, and **Qin Lv**. 2018. “This is why we play”: Characterizing Online Fan Communities of the NBA Teams. *Proceedings of the ACM on Human-Computer Interaction (PACMHCI)*, 2, CSCW, Article 197 (November 2018), 25 pages. <https://doi.org/10.1145/3274466>
29. Yingying Zhao, Qi Liu, Dongsheng Li, Dahai Kang, **Qin Lv**, and Li Shang. 2019. Hierarchical Anomaly Detection and Multimodal Classification in Large-Scale Photovoltaic Systems. *IEEE Transactions on Sustainable Energy (TSE)*, 10(3):1351–1361 (July 2019). <https://doi.org/10.1109/TSTE.2018.2867009>
30. Jiangtao Wang, Yasha Wang, Daqing Zhang, Feng Wang, Haoyi Xiong, Chao Chen, **Qin Lv**, and Zhaopeng Qiu. 2018. Multi-Task Allocation in Mobile Crowd Sensing with Individual Task Quality Assurance. *IEEE Transactions on Mobile Computing (TMC)*, 17(9):2101–2113 (September 2018). <https://doi.org/10.1109/TMC.2018.2793908>
31. Zhiwen Yu, Fei Yi, **Qin Lv**, and Bin Guo, 2018. Identifying On-Site Users for Social Events: Mobility, Content, and Social Relationship. *IEEE Transactions on Mobile Computing (TMC)*, 17(9):2055–2068 (September 2018). <https://doi.org/10.1109/TMC.2018.2794981>
32. Kira Sadighi, Evan Coffey, Andrea Polidori, Brandon Feenstra, **Qin Lv**, Daven K. Henze, and Michael Hannigan. 2018. Intra-urban Spatial Variability of Surface Ozone and Carbon Dioxide in Riverside, CA: Viability and Validation of Low-cost Sensors. *Atmospheric Measurement Techniques (AMT)*, 11:1777–1792 (March 2018). <https://doi.org/10.5194/amt-11-1777-2018>
33. Shuo Zhang and **Qin Lv**. 2018. Hybrid EGU-based Group Event Participation Prediction in Event-based Social Networks. *Knowledge-Based Systems (KBS)*, 143:19–29 (March 2018). <https://doi.org/10.1016/j.knosys.2017.12.002>
34. Shuo Zhang, Khaled Alanezi, Mike Gartrell, Richard Han, **Qin Lv**, and Shivakant Mishra. 2017. Understanding Group Event Scheduling via the OutWithFriendz Mobile Application. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)* 1(4), Article 175 (December 2017), 19 pages. <https://doi.org/10.1145/3161200>
35. Xiang Li, Daqing Zhang, **Qin Lv**, Jie Xiong, Shengjie Li, Yue Zhang, and Hong Mei. 2017. IndoTrack: Device-Free Indoor Human Tracking with Commodity Wi-Fi. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)* 1(3), Article 72 (September 2017), 22 pages. <https://doi.org/10.1145/3130940>

36. Qi Liu, James Williamson, Kun Li, Wyatt Mohrman, **Qin Lv**, Robert P. Dick, and Li Shang. 2017. Gazelle: Energy-Efficient Wearable Analysis for Running. *IEEE Transactions on Mobile Computing (TMC)*, 16(9):2531–2544 (September 2017). <https://doi.org/10.1109/TMC.2016.2623304>
37. Yingying Zhao, Dongsheng Li, Ao Dong, Dahai Kang, **Qin Lv**, and Li Shang. 2017. Fault Prediction and Diagnosis of Wind Turbine Generators using SCADA Data. *Energies*, 10(8):1210, 17 pages. <https://doi.org/10.3390/en10081210>
38. Qi Liu, Rudy Klucik, Chao Chen, Glenn Grant, David Gallaher, **Qin Lv**, and Li Shang. 2017. Unsupervised Detection of Contextual Anomaly in Remotely Sensed Data. *Remote Sensing of Environment (RSE)*, 202:75–87 (December 2017). <https://doi.org/10.1016/j.rse.2017.01.034>
39. Samuel A. Miller, Prashun Gorai, Brenden R. Ortiz, Anuj Goyal, Duanfeng Gao, Scott A. Barnett, Thomas O. Mason, G. Jeffrey Snyder, **Qin Lv**, Vladan Stevanović, and Eric S. Toberer. 2017. Capturing Anharmonicity in a Lattice Thermal Conductivity Model for High-Throughput Predictions. *Chemistry of Materials (CM)*, 29(6):2494–2501. <https://doi.org/10.1021/acs.chemmater.6b04179>
40. Dongsheng Li, **Qin Lv**, Li Shang, and Ning Gu. 2017. Efficient Privacy-Preserving Content Recommendation for Online Social Communities. *Neurocomputing* 219, C (January 2017), 440–454. <https://doi.org/10.1016/j.neucom.2016.09.059>
41. Dongsheng Li, Yaoping Ruan, **Qin Lv**, and Li Shang. 2016. SalesExplorer: Exploring Sales Opportunities from White-space Customers in the Enterprise Market. *Knowledge-Based Systems (KBS)*, 113:51–60 (December 2016). <https://doi.org/10.1016/j.knosys.2016.09.011>
42. Rahat Ibn Rafiq, Homa Hosseinmardi, Sabrina Arredondo Mattson, Richard Han, **Qin Lv**, and Shivakant Mishra. 2016. Analysis and Detection of Labeled Cyberbullying Instances in Vine, a Video-based Social Network. *Social Network Analysis and Mining (SNAM)*, 6(1), Article 88 (September 2016), 16 pages. <https://doi.org/10.1007/s13278-016-0398-x>
43. Dongsheng Li, Chao Chen, **Qin Lv**, Li Shang, Yingying Zhao, Tun Lu, and Ning Gu. 2016. An Algorithm for Efficient Privacy-preserving Item-based Collaborative Filtering. *Future Generation Computer Systems (FGCS)*, 55:311–320 (February 2016). <https://doi.org/10.1016/j.future.2014.11.003>
44. Prashun Gorai, Duanfeng Gao, Brendon Ortiz, Samuel A. Miller, Scott A. Barnett, Thomas Mason, **Qin Lv**, Vladan Stevanović, and Eric Toberer. 2016. TE Design Lab: A Virtual Laboratory for Thermoelectric Material Design. *Computational Materials Science (CMS)*, 112:368–376 (February 2016). <https://doi.org/10.1016/J.COMMATSCI.2015.11.006>
45. Junho Ahn, James Williamson, Mike Gartrell, Richard Han, **Qin Lv**, and Shivakant Mishra. 2015. Supporting Healthy Grocery Shopping via Mobile Augmented Reality. *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, 12(1), Article 16 (October 2015), 24 pages. <https://doi.org/10.1145/2808207>
46. Hanqiang Cheng, Xinyu Xing, Xue Liu, and **Qin Lv**. 2015. ISC: An Iterative Social Based Classifier for Adult Account Detection on Twitter. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 27(4):1045–1056 (April 2015). <https://doi.org/10.1109/TKDE.2014.2357012>

47. Ricardo Piedrahita, Yun Xiang, Nicholas Masson, John Ortega, Ashley Collier, Yifei Jiang, Kun Li, Robert Dick, **Qin Lv**, Michael Hannigan, and Li Shang. 2014. The Next Generation of Low-cost Personal Air Quality Sensors for Quantitative Exposure Monitoring. *Atmospheric Measurement Techniques (AMT)*, 7:3325–3336. <https://doi.org/10.5194/amt-7-3325-2014>
48. Dongsheng Li, **Qin Lv**, Li Shang, and Ning Gu. 2014. Item-based Top-N Recommendation Resilient to Aggregated Information Revelation. *Knowledge-Based Systems (KBS)*, 67 (September, 2014), 290–304. <https://doi.org/10.1016/j.knosys.2014.04.038>
49. Kun Li, Changyun Zhu, **Qin Lv**, Li Shang, and Robert P. Dick. 2013. Personalized Multimodality Image Management and Search for Mobile Devices. *Personal and Ubiquitous Computing (PUC)*, 17:1817–1834. <https://doi.org/10.1007/s00779-013-0660-4>
50. Yu-Li Liang, Xinyu Xing, Hanqiang Cheng, Jianxun Dang, Sui Huang, Richard Han, Xue Liu, **Qin Lv**, and Shivakant Mishra. 2013. SafeVchat: A System for Obscene Content Detection in Online Video Chat Services. *ACM Transactions on Internet Technology (TOIT)*, 12(4), Article 13 (July 2013), 26 pages. <https://doi.org/10.1145/2499926.2499927>
51. Yifei Jiang, Du Li, and **Qin Lv**. 2013. Thinking Fast and Slow: An Approach to Energy-Efficient Human Activity Recognition on Mobile Devices. *AI Magazine, Association for the Advancement of Artificial Intelligence (AAAI)*, 34(2), 48–66. <https://doi.org/10.1609/aimag.v34i2.2473>
52. Yifei Jiang, Kun Li, Ricardo Piedrahita, Yun Xiang, Lei Tian, Omkar Mansata, **Qin Lv**, Robert P. Dick, Michael Hannigan, and Li Shang. 2013. User-centric Indoor Air Quality Monitoring on Mobile Devices. *AI Magazine, Association for the Advancement of Artificial Intelligence (AAAI)*, 34(2):11–30. <https://doi.org/10.1609/aimag.v34i2.2472>
53. Jie Wu, Jia Wang, Kun Li, Hai Zhou, **Qin Lv**, Li Shang, and Yihe Sun. 2013. Large-Scale Energy Storage System Design and Optimization for Emerging Electric-Drive Vehicles. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*, 32(3):325–338 (March 2013). <https://doi.org/10.1109/TCAD.2012.2228268>
54. Yu-Li Liang, William Colgan, **Qin Lv**, Konrad Steffen, Waleed Abdalati, Julianne Stroeve, David Gallaher, and Nicolas Bayou. 2012. A Decadal Investigation of Supraglacial Lakes in West Greenland using a Fully Automatic Detection and Tracking Algorithm. *Remote Sensing of Environment (RSE)*, 123:127–138 (August 2012). <https://doi.org/10.1016/j.rse.2012.03.020>
55. Dongsheng Li, **Qin Lv**, Xing Xie, Li Shang, Huanhuan Xia, Tun Lu, and Ning Gu. 2012. Interest-based Real-time Content Recommendation in Online Social Communities. *Knowledge-Based Systems (KBS)*. 28:1–12 (April 2012). <https://doi.org/10.1016/j.knosys.2011.09.019>
56. Jie Wu, Kun Li, Yifei Jiang, **Qin Lv**, Li Shang, and Yihe Sun. 2011. Large-Scale Battery System Development and User-Specific Driving Behavior Analysis for Emerging Electric-Drive Vehicles. *Energies*, 4(5):758–779. <https://doi.org/10.3390/en4050758>
57. Zhe Wang, Wei Dong, William Josephson, **Qin Lv**, Moses Charikar, and Kai Li. 2007. Sizing Sketches: A Rank-based Analysis for Similarity Search. *SIGMETRICS Performance Evaluation Review*, 35(1):157–168 (June 2007). <https://doi.org/10.1145/1269899.1254900>

58. **Qin Lv**, William Josephson, Zhe Wang, Moses Charikar, and Kai Li. 2006. Ferret: A Toolkit for Content-based Similarity Search of Feature-rich Data. *SIGOPS Operating Systems Review*, 40(4):317-330 (October 2006). <https://doi.org/10.1145/1218063.1217966>

Refereed Conference and Workshop Papers

54. Yixuan Chen, Dongsheng Li, Peng Zhang, Jie Sui, **Qin Lv**, Lu Tun, and Li Shang. 2022. Cross-modal Ambiguity Learning for Multimodal Fake News Detection. In *Proceedings of the ACM Web Conference 2022 (WWW '22)*. 2897–2905. <https://doi.org/10.1145/3485447.3511968>
55. Yichen Wang, Richard Han, Tamara Lehman, **Qin Lv**, and Shivakant Mishra. 2021. Analyzing behavioral changes of Twitter users after exposure to misinformation. In *Proceedings of the 2021 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '21)*. 591–598. <https://doi.org/10.1145/3487351.3492718>
56. Jason Shuo Zhang, Brian Keegan, **Qin Lv** and Chenhao Tan. 2021. Understanding the Diverging User Trajectories in Highly-related Online Communities during the COVID-19 Pandemic. *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, 15(1), 888-899. <https://ojs.aaai.org/index.php/ICWSM/article/view/18112>
57. Yawen Zhang, Michael Hannigan, and **Qin Lv**. 2021. Air Pollution Hotspot Detection and Source Feature Analysis using Cross-Domain Urban Data. In *Proceedings of the 29th International Conference on Advances in Geographic Information Systems (SIGSPATIAL '21)*. 592–595. <https://doi.org/10.1145/3474717.3484263>
58. Srihaasa Pidikiti, Jason Shuo Zhang, Richard Han, Tamara Lehman, **Qin Lv** and Shivakant Mishra. 2020. Understanding How Readers Determine the Legitimacy of Online News Articles in the Era of Fake News. *2020 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pp. 768-775. <https://doi.org/10.1109/ASONAM49781.2020.9381451>.
59. Tao Ruan, Qingkai Kong, Yawen Zhang, Sara K. McBride, and **Qin Lv**. 2020. An Analysis of Twitter Responses to the 2019 Ridgecrest Earthquake Sequence. In *Proceedings of the 13th IEEE International Conference on Social Computing and Networking (SocialCom '20)*. 9 pages.
60. Yawen Zhang, Seth Spielman, Qi Liu, Si Shen, Jason Shuo Zhang, and **Qin Lv**. 2020. Exploring the Usage of Online Food Delivery Data for Intra-Urban Job and Housing Mobility Detection and Characterization. In *Proceedings of the 13th IEEE International Conference on Social Computing and Networking (SocialCom '20)*. 8 pages.
61. Yichen Wang, Jason Shuo Zhang, Xu Han, and **Qin Lv**. 2020. Jump on the Bandwagon? – Characterizing Bandwagon Phenomenon in Online NBA Fan Communities. In *Proceedings of the 12th International Conference on Social Informatics (SocInfo '20)*. 16 pages.
62. Rahat Rafiq, Richard Han, **Qin Lv**, and Shivakant Mishra. 2020. BullyAlert – A Mobile Application for Adaptive Cyberbullying Detection. In *Proceedings of the 11th EAI International Conference on Mobile Computing, Applications and Services (MOBICASE '20)*. 13 pages.

63. Yawen Zhang, **Qin Lv**, Duanfeng Gao, Si Shen, Robert P. Dick, Michael Hannigan, and Qi Liu. 2019. Multi-group Encoder-Decoder Networks to Fuse Heterogeneous Data for Next-day Air Quality Prediction. In Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI '19), pages 4341–4347.
64. Qingkai Kong, **Qin Lv**, and Richard M. Allen. 2019. Earthquake Early Warning and Beyond: Systems Challenges in Smartphone-based Seismic Network. In Proceedings of the 20th International Workshop on Mobile Computing Systems and Applications (HotMobile '19), pages 57–62. <https://doi.org/10.1145/3301293.3302377>
65. Hoang Truong, Shuo Zhang, Ufuk Muncuk, Phuc Nguyen, Nam Bui, Anh Nguyen, **Qin Lv**, Kaushik Chowdhury, Thang Dinh, and Tam Vu. 2018. CapBand: Battery-free Successive Capacitance Sensing Wristband for Hand Gesture Recognition. In Proceedings of the 16th ACM Conference on Embedded Networked Sensor Systems (SenSys '18), pages 54–67. <https://doi.org/10.1145/3274783.3274854>
66. Shengjie Li, Xiang Li, **Qin Lv**, Guiyu Tian, and Daqing Zhang. 2018. WiFit: Ubiquitous Bodyweight Exercise Monitoring with Commodity Wi-Fi Devices. In Proceedings of the 15th IEEE International Conference on Ubiquitous Intelligence Computing (UIC '18), pages 530–537. DOI:<http://doi.org/10.1109/SmartWorld.2018.00114>
67. Yingying Zhao, Dongsheng Li, Qi Liu, **Qin Lv**, and Li Shang. 2018. Deriving Customer Privacy from Randomly Perturbed Smart Metering Data. In Proceedings of the 2018 IEEE 16th International Conference on Industrial Informatics (INDIN), pages 959–965. <https://doi.org/10.1109/INDIN.2018.8471935>
68. Dongsheng Li, Yingying Zhao, Yawen Zhang, **Qin Lv**, and Li Shang. 2018. An Algorithmic Method for Tampering-Proof and Privacy-Preserving Smart Metering. In Proceedings of the 2018 IEEE 16th International Conference on Industrial Informatics (INDIN), pages 459–465. <https://doi.org/10.1109/INDIN.2018.8471959>
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TEACHING

Courses Taught

- CSCI 4502/5502: Data Mining
 - (was CSCI 4830/7000) Spring 2009–2013, Spring 2015–2016, Fall 2017–2022
- CSCI 6502: Big Data Analytics: Systems, Algorithms, and Applications
 - (was CSCI 7000) Fall 2008–2010, Spring 2015–2016, Spring 2018–2023

- CSCI 5000: Introduction to the Computer Science Research-based MS Program
 - Fall 2020, Fall 2021, Fall 2022
- CSCI 6000: Introduction to the Computer Science PhD Program
 - Fall 2018, Fall 2019
- CSCI 3104: Algorithms
 - Fall 2011, Fall 2012, Fall 2014, Fall 2015
- CSE594: Distributed Systems
 - Spring 2008, taught at Stony Brook University
- CSE692: Systems Design for Massive Data
 - Fall 2007, taught at Stony Brook University

PROFESSIONAL SERVICE

Editorial Board

- Guest Editor. IEEE PMC (Pervasive and Mobile Computing). 2022.
- Associate Editor. ACM IMWUT (Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies). 2016–2021.

Technical Program Committee

- MobiSys: ACM International Conference on Mobile Systems, Applications, and Services (2016, 2017, 2019-2024) (External Review Committee: 2015, 2018)
- MobiCom: ACM International Conference On Mobile Computing And Networking (2023, 2024)
- SenSys: ACM Conference on Embedded Networked Sensor Systems (2018, 2020, 2022, 2023). External Technical Program Committee (2019)
- KDD: ACM SIGKDD Conference on Knowledge Discovery and Data Mining (2022)
- SocInfo: International Conference on Social Informatics (2022)
- PerCom: IEEE International Conference on Pervasive Computing and Communication (2013, 2015, 2016, 2017, 2018, 2019, 2020, 2021)
- HotMobile: ACM International Workshop on Mobile Computing Systems and Applications (2015, 2017, 2021)
- IPSN: ACM/IEEE International Conference on Information Processing in Sensor Networks (2021)
- IoTDI: ACM/IEEE Conference on Internet of Things Design and Implementation (2021)

- TheWebConf (formerly WWW): International World Wide Web Conference (2014, 2021)
- WSDM: ACM International Conference on Web Search and Data Mining (2017, 2021)
- SIGIR: Annual ACM SIGIR Conference on Research and Development in Information Retrieval (2018, 2019, 2020)
- SECON: IEEE International Conference on Sensing, Communication, and Networking (2017, 2020)
- ICDCS: IEEE International Conference on Distributed Computing Systems (2019)
- Mobiquitous: EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (2014, 2016, 2017)
- UbiComp: ACM International Joint Conference on Pervasive and Ubiquitous Computing (2012, 2013, 2014, 2016)
- WI: IEEE/WIC/ACM International Conference on Web Intelligence (2012, 2015)
- MobiCASE: EAI International Conference on Mobile Computing, Applications and Services (2014)
- SIGMETRICS: ACM SIGMETRICS International Conference on Measurement and Modeling of Computer Systems (2011, 2012, 2013)
- PhoneCom: IEEE ICDCS International Workshop on Sensing, Networking, and Computing with Smartphones (2012)
- IWQoS: IEEE/ACM International Workshop on Quality of Service (2011)
- WOCM–Multimedia Symposium: IEEE Annual Wireless and Optical Communications Conference (2011)
- MCS: International Workshop on Mobile Cloud Computing & Services: Social Networks and Beyond (2010)

Organizing Committee

- IMWUT Distinguished Paper Awards Committee (2021, 2022, 2023)
- PerCom 2024: Demo Co-Chair
- PerCom 2022: Technical Program Committee Vice Chair
- HotMobile Steering Committee (2020 – 2022)
- UbiComp 2021: General Co-Chair
- MobiSys 2021: Virtual Arrangements Co-Chair
- PerCom 2021: PhD Forum Co-Chair
- UbiComp 2020: Workshop Co-Chair

- MobiSys 2020: Best Paper Selection Committee Co-Chair, Workshop Chair
- CONVERGE COVID-19 Working Groups for Public Health and Social Sciences Research
 - Working Group: Extreme Weather Events and Geohazards in a Time of COVID-19
 - Steering Committee (2020)
- CyberSafety: International Workshop on Computational Methods for CyberSafety
 - Workshop Co-Chair (2016, 2019), TPC Co-Chair (2017)
 - Steering Committee (2018, 2020)
- HotMobile 2020: Program Chair
- UbiComp 2019: Doctoral Symposium Co-Chair
- RMCWiC (Rocky Mountain Celebration of Women in Computing)
 - Registration Chair (2012, 2014, 2016, 2018)
- MobiCom 2016 (The 20th ACM International Conference on Mobile Computing and Networking): Publication Chair
- SenSys 2015: Publication Chair
- WIC 2012 (IEEE/WIC/ACM World Intelligence Congress): Publicity Co-Chair
- CCWIC 2010 (Colorado Celebration of Women in Computing): Registration Chair
- ISCA 2008 (The 35th IEEE International Symposium on Computer Architecture): Publicity Chair
- ANCS 2005 (ACM/IEEE Symposium on Architectures for Networking and Communications Systems): Registration Chair