# Yu Zheng (郑宇) R65

Vice President of JD.COM & Chief Data Scientist at JD Digits Chair Professor, Shanghai Jiao Tong University IEEE Fellow, ACM Distinguished Scientist Homepage: <u>http://urban-computing.com/yuzheng</u>

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# **Short Biography**

Dr. Yu Zheng is the Vice President of JD.COM and Chief Data Scientist at JD Digits, passionate about using big data and AI technology to tackle urban challenges. He is the president of the JD Intelligent Cities BU and serves as the head of JD Intelligent Cities Research. Before joining JD.COM, he was a senior research manager at Microsoft Research. His research interests include big data analytics, spatio-temporal data mining, artificial intelligence, and applied machine learning.

Zheng has authored over 100 referred publications at prestigious international conferences and journals (with over **31,000 citations** and **H-index 79**). He has received **the 10-Year Impact Award from ACM SIGSPATIAL** twice in 2019 and 2020, respectively, and other **five best paper awards** from well-known conferences, such as ICDE'13, ACM SIGSPATIAL'10, and UbiComp'11. He has been featured multiple times by influential journals. He was named one of the **Top Innovators under 35** in 2013 by MIT Technology Review (**TR35**) and **featured by Time Magazine** as a modern inventor for his research on urban computing. In 2014, he was named one of the **Top 40 Business Elites under 40** in China by **Fortune**, for the business impact of urban computing he has been advocating since 2008.

His book, entitled "Computing with Spatial Trajectories", has been used in universities world-widely and awarded one of **the Top 10 Most Popular Computer Science Books** published by Chinese authors at Springer. His another book, entitled "**Urban Computing**" (MIT Press), is the first text book in this field.

Zheng serves as the Editor-in-Chief of ACM Transactions on Intelligent Systems and Technology. He has served as chair on over 10 prestigious international conferences, such as the program co-chair of ICDE 2014 (Industrial Track), CIKM 2017 (Industrial Track) and IJCAI 2019 (Industrial Track), and Area chair of AAAI 2018 and ICDM 2015. He was invited to give keynote speeches at AAAI 2019 and KDD 2019 Plenary Keynote Panel. He gives guest lectures frequently in universities like Massachusetts Institute of Technology (MIT), Carnegie Mellon University, and Cornell. So far, he has supervised over 100 Ph.D. students from around the world.

Zheng was name an **ACM Distinguished Scientist** in 2016 and elevated to an **IEEE Fellow** in 2020, for his contributions to spaito-temporal data mining and urban computing.

He is also a **Chair Professor at Shanghai Jiao Tong University**, an **Adjunct Professor of Hong Kong University of Science and Technology**, **Hong Kong Polytechnic University** and **Nanjing University**, and an Affiliate Professor of Southwest Jiaotong University.

Zheng has built a number of real big data systems, such as GeoLife, T-Drive, T-Share, CityNoise, and Urban Air, which drew widespread attention from academia, industries, and media. His technologies have been transferred into Microsoft products, such as Bing Search, Bing Maps, and CityNext. Particularly, the Urban Air system built by his team has been **deployed in Chinese Ministry of Environmental Protection to infer and forecast fine grained air quality for over 300 cities in China**. He is also the chief architecture of quite a few national smart city projects, such as XiongAn Intelligent Cities' Platform

He received 3 technical transfer awards from Microsoft and 24 granted/filed patents. In 2008, he was recognized as the Microsoft Golden Star. He joined MSRA in July 2006 after received his Ph.D. degree in communication & information systems from Southwest Jiaotong University.



# **Focused Research Themes**

- 1) Urban Computing
- 2) Location-Based Social Networks
- 3) Spatio-Temporal Data Mining & Computing with Spatial Trajectories

# Honors

- 1. IEEE Fellow in 2020
- 2. ACM SIGSPATIAL 10-Year Impact Award in 2020
- 3. ACM SIGSPATIAL 10-Year Impact Award in 2019
- 4. 2016 ACM Distinguished Scientist
- 5. One of the Top 10 Most Popular Computer Science Books published by Chinese Authors at Springer
- 6. Distinguished Member of China Computer Federation, July 2015
- 7. 2014 Top 40 Business Elites under 40 in China by Fortune Magazine
- 8. 2014 Modern Innovator featured by Time Magazine
- 9. 2013 Top Innovators under 35 by MIT Technology Review (TR35)
- 10. ACM Senior member, since Jan. 2012
- 11. IEEE Senior member, since Oct. 2011
- 12. Distinguished Speaker of China Computer Federation
- 13. Microsoft Golden Star, 2008



- 14. Best paper runner-up award at 29th IEEE International Conference on Data Engineering (ICDE 2013)
- 15. Best paper award at 7<sup>th</sup> International Conf. on Advanced Data Mining and Applications (ADMA 2011)
- 16. Best paper nominee award at 13th International Conf. on Ubiquitous Computing (UbiComp 2011)
- 17. Best paper runner-up award at ACM SIGSPATIAL GIS 2010
- 18. Best paper award at the 8th International Conf. on Ubiquitous Intelligence and Computing (UIC 2010)
- 19. The most cited paper in ACM SIGSPATIAL GIS 2008 and 2010
- 20. The most cited paper in UbiComp 2008
- 21. The most cited paper in IEEE Data Engineering Bulletin. 2010
- 22. Outstanding Ph.D. thesis award from Southwest Jiaotong University 2007

# **Professional Experiences**

# 2018.2 - Present:

# Vice President at JD.COM and Chief Data Scientist at JD Digits

- Lead the JD Intelligent Cities BU, deploying urban computing platforms and services in many Chinese cities. Creating new business models for urban computing
- Serve as the head of JD Intelligent Cities Research in JD.COM, innovating cutting edge technology for the company as well as the society.

# 2006.7 - 2018.2:

# Associate Researcher, Researcher, Lead Researcher, and Senior Research Manager Microsoft Research

- Lead the research on urban computing and location-based social networks.
- Developed and deployed real systems, such as GeoLife, T-Drive, T-Share, T-Finder, and Urban Air.
- Transferred technologies into Microsoft Products, such as Bing Maps and CityNext.
- Collaborate with Center of Urban Science and Progress in New York City.

- Received 3 technical transfer awards and 24 patent awards from Microsoft.
- Published over 50 referred papers as a leading author at prestigious conferences and journals, such as SIGMOD, VLDB, ICDE, SIGKDD, AAAI, WWW, UbiComp, and IEEE TKDE.
- Supervised over 80 visiting students from around the world.
- Gave tutorials in WWW 2012 and ACM SIGSPATIAL 2011
- Delivered over 10 keynote speeches at international conferences
- Gave over 60 guest lectures in universities like MIT, CMU, UIUC and Cornell.

## 2013.4 - Present: Chair Professor, Zhiyuan College, Shanghai Jiao Tong University

- Teaching subjects: Spatio-Temporal Data Analytics (2 points per semester).
- Supervise Ph.D. Students and work with other faculties

# 2014.8 – Present: Affiliate Professor, School of Info. Science and Tech., Southwest Jiaotong University

- Supervise Ph.D. students (as a Ph.D. advisor) and collaborate with faculties
- Give lectures and talks on spatio-temporal data mining and urban computing
- Consultant big data strategy for the university

# 2015.1 – Present: Adjunct Professor, Computing Department, Hong Kong Polytechnic University

- Involving in the collaboration on urban big data and urban computing
- Give talks and lectures to students and faculties at HK Poly U

# 2015.6 - Present: Editor-in-Chief of ACM Transactions on Intelligent Systems and Technology (IF: 3.41)

# 2015.7-Present: Affiliate Chair Professor, School of Computer Science, XIDIAN University.

- Supervise Ph.D. students
- Teach a course for graduate students: Urban Computing

## 2015.7- Present: Adjunct Professor, School of Computer Science and Technology, Tianjin University

• Collaborate on urban computing for public safety

# 2016.1- Present: Adjunct Professor, Department of Computer Science and Engineering, Hong Kong University of Science and Technology

- Teaching a course on urban computing
- Co-supervise Ph.D. students with faculties

## 2018.12- Present: Adjunct Professor, AI School of Nanjing University

# Education

2003.9-2006.6 Ph.D. in Communication and Information Systems, Southwest Jiaotong University, China 2001.9-2003.6 Master in mechatronics & computer science, Southwest Jiaotong University, China 1997.9-2001.7 Bachelor in mechatronics, Southwest Jiaotong University, China 1994.9-1997.7 No. 8 high school of Hengyang city

# **Selected Professional Activities**

# Keynotes (20+ at ACM and IEEE Conferences and Forums)

- Keynote speech at the IJCAI 2019 Industrial Track, 2019.8
- Keynote speech in the Plenary Keynote Panel at KDD 2019. Anchorage, AK, USA, 2019.8.7

- Keynote speech at The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-19), 2019.1.30, USA
- Keynote speech at the 12th International Conference on Intelligent Systems and Knowledge Engineering (ISKE2017). Nanjing, China, Nov. 26, 2017.
- Keynote Speech at the 3rd IEEE International Conference on Spatial Data Mining and Geographical Knowledge Services (ICSDM2017)
- Keynote Speech at the 2016 IEEE International Conference on Smart Data (SmartData 2016), Chengdu, China, 2016.12.16
- Keynote Speech at the 7th ACM SIGSPATIAL International Workshop on GeoStreaming (IWGS 2016), San Francisco, USA, 2016.10.31.
- Keynote Speech at the 24th IEEE International Requirements Engineering Conference (RE 2016), Beijing China, 2016.9.15
- Keynote Speech at the 10the IEEE International Conference on Big Data Science and Engineering (IEEE BIGDataSE 2016), Tianjin, China, 2016.8.24
- Keynote Speech at the 2nd International Conference of Young Computer Scientists, Engineers and Educators (ICYCSEE 2016), Harbin, China, 2016.8.20
- Keynote Speech at the 5th ACM SIGKDD International Workshop on Urban Computing (UrbComp 2016), San Francisco, USA, 2016.8.14
- Keynote Speech at the 2016 International Conference on Smart X (Smart X 2016), Dalian, China, 2016.7.30
- Keynote Speech at 15th China Conference on Machine Learning (CCML 2015), Chengdu, 2015.10.17.
- Keynote Speech at the 4th ACM SIGKDD International Workshop on Urban Computing (UrbComp 2015), Sydney, Australia, 2015.8.10
- Keynote Speech at the 2nd International Conference on Sustainable Urbanization (ICSU 2015), Hong Kong, 2015.1.
- Keynote speech at the 10th IEEE International conference on Intelligent Environment (IE 2014), Shanghai, China, July 2014.
- Keynote speech at the 9th International Workshop on Geographical Science (IWGS 2014), Beijing, China, June 2014.
- Keynote speech at the CCF forum on Urban Sensing and Computing, Hangzhou, China, 2014.6
- Keynote speech at the World Geospatial Developers Conference (WGDC 2014), Beijing, China, June 2014.
- Keynote speech at the MIT Sloan Technology Innovation and Entrepreneurship Forum, 2014.5.17
- Keynote speech at the Big Data and Internet Economy forum, 2014.4. Peking University.
- keynote speech at APEC smart city innovation & technology cooperation forum. Changzhou, China, April 10, 2014. (Link)
- Keynote speech at the International Symposium on Grids and Clouds (ISGC), Taipei, 2014.3
- Keynote speech at the 8th International Conference on Intelligent Systems and Knowledge Engineering (ISKE2013). Shenzhen, China, Nov. 21, 2013.
- Keynote speech at 2013 Chinese Conference of Complex Networks, Hangzhou, China, Sept. 15, 2013.
- Keynote speech at the World Geospatial Developers Conference (WGDC 2013), 2013.5.15, Beijing, China (over 2,500 audiences)
- Keynote speech at the China Annual Conference of GIS Theory and Methodology. 2012. Sept. Chengdu China.

# **Editorial Boards and Editors**

- Editor-in-Chief of ACM Transactions on Intelligent Systems and Technology
- Editorial Advisory Board of IEEE Spectrum (one of the 25 members)

- Editorial Board of IEEE Transaction on Big Data.
- Associate editor of **GeoInformatica**. Springer.
- Associate editor of Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

# Chairs

- Industrial Chair of the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019)
- Sponsorship Co-Chair of the 24nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2018)
- PC co-chair of Industrial Track at the 23rd International Conference on Database Systems for Advanced Applications (DASFAA 2018)
- General Co-Chair of the IEEE International Smart Cities Conference (ISC2 2017)
- Industrial Track Chair of the International Conference on Information and Knowledge Management (CIKM 2017)
- Sponsorship Co-Chair of the 22nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2016)
- Co-Organizer of <u>Data Science of China</u> Forum at the 22nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2016**)
- Program Chair of the ACM SIGKDD China Forum: from Big data to AI, 2016.12.17
- Program Co-Chair of the 5th ACM SIGKDD International Workshop on Urban Computing (UrbComp 2016)
- Program Chair of the first ACM SIGKDD China Annual Conference (KDD China 2016)
- Program Chair of the Global Artificial Intelligence and Robots Summit (GAIR 2016)
- Area Chair of the IEEE International Conference on Data Mining (ICDM 2015)
- Program Chair of the 4th ACM SIGKDD International Workshop on Urban Computing (UrbComp 2015)
- Program chair of the 11th IEEE International Conference on Ubiquitous Intelligence and Computing (<u>UIC</u> 2014)
- Program chair of the 30th IEEE International Conference on Data Engineering (Industrial Track) (ICDE 2014)
- Industrial PC chair of Asia-Pacific Web Conference (<u>APWeb 2014</u>)
- Program Chair of the 3th ACM SIGKDD International Workshop on Urban Computing (<u>UrbComp 2014</u>)
- Demo chair of Spatial and Spatio-Temporal Databases (SSTD 2013)
- Publicity Chair of PAKDD 2014
- Program Chair of the 2nd ACM SIGKDD International Workshop on Urban Computing (<u>UrbComp 2013</u>)
- Chair of CCF Advanced Disciplines Lectures (ADL) on Urban Computing (Details)
- Session Chair of ACM SIGKDD conference on Knowledge Discovery and Data Mining (KDD 2012)(KDD 2016).
- Industrial Chair of the 14th ACM International Conference on Ubiquitous Computing (Ubicomp 2012)
- Program Chair of the 4th ACM International Workshop on Location-Based Social Networks (LBSN 2012)
- Program Chair of the ACM SIGKDD International Workshop on Urban Computing (<u>UrbComp 2012</u>)
- Session Chair of the ACM International Conference on Ubiquitous Computing (Ubicomp 2011)
- Program Chair of the Third ACM SIGSPATIAL International Workshop on Location-Based Social Networks (<u>LBSN 2011</u>)
- Local Chair of the ACM International Conference on Ubiquitous Computing (Ubicomp 2011)
- Session Chair of the IEEE International Conference on Ubiquitous Intelligences and Computing (UIC 2010)
- Session Chair of the second ACM SIGSPATIAL Workshop on Location-Based Social Networks (LBSN 2010)
- Program Chair of International Conference on Advances in Multimedia (MMEDIA 2009)

# **Program Committee**

- Senior PC or PC of ACM SIGKDD conference on Knowledge Discovery and Data Mining (KDD 2012/2013/2014/2015/2016/2017/2018/2019)
- Committee Member of the KDD Test of Time Award 2017
- PC of American Association of Artificial Intelligence conference (AAAI 2014/2015/2016)
- Senior PC of American Association of Artificial Intelligence conference (AAAI 2017/2018)
- Senior PCs and PC of SIAM International Conference on Data Mining (SDM 2013/2014/2016/2017/2018)
- IEEE International Conference on Data Mining (ICDM 2013/2014/2016)
- ACM International Conference on Web Search and Data Mining (WSDM 2013/2014)
- International Joint Conference on Artificial Intelligence (IJCAI 2011)
- The International Conference on Ubiquitous Computing (UbiComp 2011)
- Senior PCs of PAKDD 2018/2017/2016/2015/2014/2013/2012
- Best paper awarding committee PAKDD 2017
- The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ICML-PKDD 2015)
- ACM SIGSPATIAL International Conference on Geographic Information Systems (ACM SIGSPATIAL 2017/2016/2015/2014/2013/2011/2010)
- International Symposium on Spatial and Temporal Database (SSTD 2011/2013/2015)
- IEEE International Conference on Mobile Data Management (MDM 2016/2015/2014/2013/2012/2010)
- The Extending Database Technology (EDBT 2013)
- International Conference on Database Systems for Advanced Applications (DASFAA 2011)
- Australasian Database Conference (ADC 2012/2011/2010)
- International Conference on Database and Expert Systems Applications (DEXA 2013/12/11/10/09)
- Senior PC of the International Conference on Multimodal Interaction (ICMI 2014)
- International Conference on Ubiquitous Intelligences and Computing (UIC 2011/2010)
- ACM International Conference on Mobile and Ubiquitous Multimedia (MUM 2010/2009/2008)
- International conference on Mobile Computing, Applications, and Services (MobiCASE 2011/2010)
- International Conference on Web Information Systems Engineering (WISE 2009/2008)
- International Conference on Wireless Information Networks and Systems 2009 (Winsys 2009)
- ACM Multimedia: Location-based and mobile multimedia Track (ACM MM 2011)
- International Conference on Advance of Computer Human Interaction (ACHI 2011/2009)
- International conference on Intelligent User Interface (IUI 2009)
- International Conference on Human Computer Interaction 2008 (HCI 2009/2008)

## **Tutorials**

- Location-based social networks, at WWW 2012, 2012.4
- Computing with Spatial Trajectories, at ACM SIGPSPATIAL 2011.11
- Urban Computing, at DASFFA 2017, 2017.3.29

## **Media Interviews and Reports**

- NBC News: Microsoft, IBM Eye Big Business Opportunity in China's Air Pollution. 2015.12.28
- Reuters: Tech giants spot opportunity in forecasting China's smog, 2015.12.28
- China Environment News: "How big data can help forecast smog", 2015.12.14
- GeekWire Reporter: What Microsoft Research is doing to help Beijing air pollution, 2015.11.30

- Springer: Top 10 Most Popular Computer Science Books authored by Chinese, 2015.9
- ComputerWorld: Microsoft predicts China's air pollution with data analysis, 2015.6.11
- Ming Pao (HK): Microsoft predicts air quality with big data, 2015.6.10
- Fortune: Top 40 Business Elites under 40 in China, 2014.12
- MIT Technology Review: Urban computing- using big data to solve urban challenges (In Chinese). 2014.8.31
- United Nations Global Pulse: Inferring citywide gas consumption and vehicle emission, 2014.8.28
- Featured by Time Magazine as a modern inventor, Nov. 23, 2013
- Interviewed by IFeng.com. Big data can predict air quality. 2013.11.29 (In Chinese)
- Sciencenet: Six Chinese scientists in Top Innovators under 35, 2013.8.23
- MIT Technology Review: "Analyzing newly available data about the intricacies of urban life could make cities better." 2013.8.21
- CEO&CIO: Urban Computing: Finding the intelligence from taxi trajectories, 2012.1 (In Chinese).
- MSNBC.com: "Taxicab data helps ease traffic". Future of Technology on MSNBC.com. 2011.9.30
- MIT Technology Review: "GPS Data on Beijing Cabs Reveals the Cause of the Traffic Jams", 2011.9.27. Featured on the first page.
- "Urban computing based on taxicabs". Reported by ACM TechNews. 2011.9.27
- MIT Technology Review: "Customize a personalized driving route for you", 2011.9.5 (In Chinese).
- MIT Technology Review: "A driving route made just for you", 2011.8.30.
- MIT Technology Review: Adding cabbie know-how to online maps, news featured on the first page, 2010.11.6
- NewScientist: Follow that cab! Racing Google Maps on city streets, 2010.11.5
- Dedicated Interview by ZOL.com, China Conferecen on World Wide Web (In Chinese)
- Day Day up 2009.10.23, The most popular entertainment TV program in China (In Chinese).
- GeoLife 2.0 interview on Microsoft Channel 10 (video), 2009
- Geolife 1.0 interview by CNET and Seattle Times (video), 2008
- Dedicated Interviewed by Sohu.com, Enlightening Research with Arts (In Chinese)

# Teaching

- Course: Spatio-Temporal Data Analytics, In Shanghai Jiao Tong University (2013-present)
  - Students: Undergraduate students from ACM class (in Zhiyuan College) and IEEE class (in Computer Science department); Also open to graduate students
  - A 2-point subject (32 hours per semester)
  - Course: Big Data Foundations and Applications, in Tsinghua University (2015)
    - Joint Course with Faculties from Tsinghua University
    - $\circ$   $\;$  Students: Graduate students of IIIS, open to graduate students of other schools.
- Summer Schools
  - <u>Big Data and Ubiquitous Computing</u>, in Peking University (2015.7).
  - Urban Computing and Big Data, in Shandong University (2015.7)
- Course: Urban Computing, in Xidian University (2015.9-12)
  - Students: Graduate students from computer science school
  - A 2-point subject (32 hours per semester)

## **Guest Lectures and Invited Talks**

#### • Guest Lectures in International Universities (Language: English)

- Institute for Advanced Study (IAS) talk at Hong Kong University of Science and Technology. "Urban computing: Using Big Data to Solve Urban Challenges". 2015.1.9 (link)
- Distinguished Lecture at Hong Kong Baptist University, "Urban computing: Using Big Data to Solve Urban Challenges". 2014.12.2 (link)
- Hong Kong University of Science and Technology, "Urban Computing: Using Big Data to Solve Urban Challenges", 2014.3.27
- Chinese University of Hong Kong, "Urban Computing: Using Big Data to Solve Urban Challenges", 2014.3.28
- MIT, CEE Department, "Urban Computing: Using Big Data to Solve Urban Challenges", 2013.10.8
- The University of Illinois at Chicago, "Urban Computing with Big Data", 2013.8.19
- The University of Melbourne, "Urban Computing: Using Big Data to Solve Urban Challenges. 2013.4.16
- National Taiwan University, "Urban Computing with City Dynamics". 2012.11.15
- **DB colloquium in Cornell University**, "Urban Computing with City Dynamics". 2012.9.17
- Telecom Seminar in University of Pittsburgh. "Urban Computing with City Dynamics". 2012.9.15
- **Carnegie Mellon University (CMU)**, "Urban Computing with City Dynamics". 2012.9.11
- National Chiao-Tong University of Taiwan. "Urban Computing" 2012.5.10
- Barabasi Lab in North Eastern University (USA), "Urban Computing". 2012.4.12
- University of Illinois at Urbana-Champaign, "Location-Based Social Networks". 2011.11.3
- MIT Media Lab, "Urban Computing: Using City Dynamics to Tackle the Biggest Challenges in Urban Spaces". 2012.4.10.
- International talks (Language: English)
  - Roundtable of Thought Leaders on Innovation in Cities, Singapore, 2015.1.19
  - Tech Forum of APAC Innovation Summit 14, Hong Kong Convention and Exhibition Centre 2014.12.2
  - NYU Shanghai Symposium on Data Science and Applications. 2014.11.23
  - Invited talk at Huawei Noah'S Ark Lab, "Urban Computing with Big Data", Nov. 20, 2013.
  - Invited talk at the 1st Forum on Computational Earth System Science, "Urban Computing with Big Data", Tsinghua University, Nov. 9, 2013.
  - Talk at EmTech 2013, "When Air Quality Meets Big Data", 2013.10.9
  - Invited talk at IBM Research at T.J. Watson, "Urban Computing with Big Data", 2013.8.27
  - Invited talk at Microsoft Research at NYC, "Urban Computing with Big Data", 2013.8.22
  - Invited talk at Nokia at Chicago, "Urban Computing: Using Big Data to Solve Urban Challenges", 2013.8.20
  - Jointly invited talk at the University of Sydney and NICCTA, "Urban Computing: Using Big Data to Solve Urban Challenges. 2013.4.5
  - MSRA lecture: "On Publication of the Research", March 23, 2011.
  - The invited talk at Microsoft Location Summit 2009, "GeoLife: a location-based social networking service"
  - Invited talk in Samsung Electronic Research, GeoLife: Understanding User Behavior Geospatially

#### Panelists

- Roundtable of Thought Leaders on Innovation in Cities, Singapore, 2015.1.19
- The Connected Cities Panel, EmTech 2013, Cambridge, MA, USA, 2013.10
- Early Career Panel, at Spatial and Spatio-Temporal Databases (SSTD 2011).
- Mobile applications, Wireless China Industry Summit 2010
- Location-Based Services, Wireless China Industry Summit 2009

• Location-Based Services, Wireless China Industry Summit 2008

# Publications (31,000+ citations, H-Index 79, 5,000+ citations in the last single year)

(Authors associated with \* are/were the interns/students I have supervised)

## Books, Book Chapters, Special issues, and Proceedings

- Yu Zheng, Urban Computing, MIT Press, 2019.
- Rui Zhang, Timos Sellis, **Yu Zheng**, Mohamed Mokbel (Eds.): The Special Issue on Data Management and Analysis in Location-Based Social Networks. Distributed and Parallel Databases.
- Yu Zheng, Licia Capra, Ouri Wolfson, Yang Hai (Eds.): The Special Issue on Urban Computing. ACM Transactions on Intelligent Systems and Intelligent Systems.
- M. A. Nascimento, T. Sellis, R. Cheng, J. Sander, Yu Zheng, H.-P. Kriegel, M. Renz, C. Sengstock (Eds.): Advances in Spatial and Temporal Databases - 13th International Symposium, SSTD 2013, Munich, Germany, 2013. Proceedings. Springer 2013 Lecture Notes in Computer Science ISBN 978-3-642-40234-0
- Yu Zheng and Xiaofang Zhou, Computing with Spatial Trajectories. Springer 2011. ISBN:978-1-4614-1628-9
- Yu Zheng, Location-Based Social Networks: Users. Springer press, 2011. (A book chapter). ISBN: 978-1-4614-1628-9
- Yu Zheng and Xing Xie, Location-Based Social Networks: Locations. Springer press, 2011. (A book chapter)
- Yu Zheng, Mohamed F. Mokbel. Proceeding of the 3rd ACM SIGSPATIAL International Workshop on Location-Based Social Networks.
- Yu Zheng, Ouri Wolfson. The Proceeding of the International Workshop on Urban Computing. UrbComp 2012.
- Yu Zheng, Jason Hong. The Proceeding of the 4<sup>th</sup> international workshop on Location-Based Social Networks (LBSN 2012)
- Yu Zheng, Steven E. Koonin, Ouri Wolfson. The Proceeding of the 2nd International Workshop on Urban Computing. UrbComp 2013.

## **Journal Papers**

- 1. Kun Ouyang, Yuxuan Liang, Ye Liu, Zekun Tong, Sijie Ruan, **Yu Zheng**, David S. Rosenblum. Fine-Grained Urban Flow Inference. IEEE Transactions on Knowledge and Data Engineering, 2020. (**TKDE**)
- Junkai Sun, Junbo Zhang, Qiaofei Li, Xiuwen Yi, Yuxuan Liang, Yu Zheng. Predicting Citywide Crowd Flows in Irregular Regions Using Multi-View Graph Convolutional Networks. IEEE Transactions on Knowledge and Data Engineering, 2020. (TKDE)
- Zheyi Pan, Wentao Zhang, Yuxuan Liang, Weinan Zhang, Yong Yu, Junbo Zhang, Yu Zheng. Spatio-Temporal Meta Learning for Urban Traffic Prediction. IEEE Transactions on Knowledge and Data Engineering, 2020. (TKDE)
- 4. Yang Liu, Yingting Liu, Zhijie Liu, Yuxuan Liang, Chuishi Meng, Junbo Zhang, **Yu Zheng**. Federated Forest, IEEE Transactions on Big Data. (TBD)
- 5. Zhaoyuan Wang, Junbo Zhang, Shenggong Ji, Chuishi Meng, Tianrui Li, **Yu Zheng**. Predicting and Ranking Box Office Revenue of Movies Based on Big Data. Information Fusion.
- 6. Ye Liu, Yuxuan Liang, Kun Ouyang, Shuming Liu, David S. Rosenblum, **Yu Zheng**. Predicting Urban Water Quality with Ubiquitous Data A Data-driven Approach. IEEE Transactions on Big Data. (TBD)

- Zikun Deng, Di Weng, Jiahui Chen, Ren Liu, Zhibin Wang, Jie Bao, Yu Zheng, Yingcai Wu. AirVis: Visual Analytics of Air Pollution Propagation, in IEEE Transactions on Visualization and Computer Graphics. (VAST)
- 8. Pengyang Wang, Yanjie Fu, Xiaolin Li, **Yu Zheng**, Charu Aggarwal. Spatiotemporal Representation Learning for Driving Behavior Analysis: A Joint Perspective of Peer and Temporal Dependencies. (**TKDE**)
- 9. Tianfu He, Jie Bao, Sijie Ruan, Ruiyuan Li, Yanhua Li, Hui He, **Yu Zheng**. Interactive Bike Lane Planning Using Sharing Bikes's Trajectories. IEEE Transactions on Knowledge and Data Engineering, 2019. (**TKDE**)
- Shenggong Ji, Yu Zheng, Zhaoyuan Wang, Tianrui Li. 2019. A Deep Reinforcement Learning-Enabled Dynamic Redeployment System for Mobile Ambulances. Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp 2019).
- 11. Yexin Li, **Yu Zheng**. Citywide Bike Usage Prediction in a Bike-Sharing System. IEEE Transactions on Data Engineering (**TKDE**), 2019.
- 12. Junbo Zhang, **Yu Zheng**, Junkai Sun, Dekang Qi. Flow Prediction in Spatio-Temporal Networks Based on Multitask Deep Learning. IEEE Transactions on Data Engineering (**TKDE**).
- 13. Junbo Zhang, **Yu Zheng**, Dekang Qi, Ruiyuan Li, Xiuwen Yi, Tianrui Li. Predicting Citywide Crowd Flows Using Deep Spatio-Temporal Residual Networks. **AI Journal**.
- Julie Yixuan Zhu\*, Chao Zhang\*, Huichu Zhang, Shi Zhi, Victor O.K. Li, Jiawei Han, and Yu Zheng, pg-Causality: Identifying Spatiotemporal Causal Pathways for Air Pollutants with Urban Big Data. IEEE Transactions on Big Data (TBD). DOI: 10.1109/TBDATA.2017.2723899
- Yuhong Li, Jie Bao, Yanhua Li, Zhiguo Gong, Yu Zheng. Mining the Most Influential k-Location Set from Massive Trajectories. IEEE Transactions on Big Data. 2017, 10.1109/TBDATA.2017.2717978
- 16. Siyuan Zhang, Lu Qin, **Yu Zheng**, and Hong Cheng. Effective and Efficient: Large-scale Dynamic City Express. IEEE Transactions on Data Engineering (**TKDE**).
- 17. Yanjie Fu, Hui Xiong, Yong Ge, **Yu Zheng**, Zijun Yao, and Zhi-Hua Zhou. Modeling of Geographic Dependencies for Real Estate Ranking. ACM Transactions on Knowledge Discovery from Data (TKDD). DOI:10.1145/2934692
- Dongyu Liu, Di Weng, Yuhong Li, Jie Bao, Yu Zheng, Huaming Qu, Yingcai Wu, "SmartAdP: Visual Analytics of Large-scale Taxi Trajectories for Selecting Billboard Locations", IEEE Transactions on Visualization & Computer Graphics, (1), pp.1-10.
- 19. Yu Zheng. Methodologies for Cross-Domain Data Fusion: An Overview. IEEE Transactions on Big Data, vol. 1, no. 1. 2015.
- 20. Yu Zheng. Trajectory Data Mining: An Overview. ACM Transaction on Intelligent Systems and Technology (ACM TIST). 2015. vol. 6, issue 3. *Hot!*
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- 104.Yu Zheng, Quannan Li, Yukun Chen, Xing Xie, Wei-Ying Ma. Understanding Mobility Based on GPS Data. In Proceedings of the 10<sup>th</sup> ACM conference on Ubiquitous Computing (UbiComp 2008), Seoul, Korea. ACM Press: 312–321.
- 105.Quannan Li\*, Yu Zheng, Xing Xie, Yukun Chen, Wenyu Liu, Wei-Ying Ma. Mining user similarity based on location history. In Proceedings of the 16th ACM SIGSPATIAL conference on Advance in Geographical Information Systems (ACM SIGSPATIAL GIS 2008), Irvine, CA, USA. ACM Press: 1-10. The most cited paper
- 106.Longhao Wang\*, **Yu Zheng**, Xing Xie, Wei-Ying Ma. A Flexible Spatio-Temporal Indexing Scheme for Large-Scale GPS Track Retrieval, In Proceedings of the 9th International conference on Mobile Data Management (MDM 2008), Beijing China. IEEE Press: 1-8.
- 107. Yu Zheng, Xing Xie, Ruochi Zhang, Wei-Ying Ma. Searching Your Life on Web Maps, SIGIR workshop on mobile information retrieval, 2008, Singapore.
- 108. **Yu Zheng**, Longhao Wang, Ruochi Zhang, Xing Xie, Wei-Ying Ma. GeoLife: Managing and understanding your past life over maps, In Proceedings of the 9th International conference on Mobile Data Management (MDM 2008), Beijing China.
- 109. Yu Zheng, Xing Xie, Wei-Ying Ma. Distributed Architecture For Large Scale Image-Based Search, In Proceedings of International conference on Multimedia Explore (ICME 2007), Beijing China.
- 110. **Yu Zheng**, jingchun Xia, Dake He. Trusted User Authentication Scheme Combining Password with Fingerprint for Mobile Devices. IEEE International Symposium on Biometrics and Security Technologies (ISBAST 2008).
- 111. Dake He, Jianbo Wang, **Yu Zheng**. User Authentication Scheme Based on Self-certified Public-key for Next Generation Wireless Network. IEEE International Symposium on Biometrics and Security Technologies (ISBAST 2008).
- 112. **Yu Zheng**, Dake He, Mingxing He. User Authentication Scheme for Trusted Mobile Platform, Advance in China Crypt06.

- 113. Yu Zheng, Dake He, Weichi Yu, Xiaohu Tang. Trusted Computing-Based Security Architecture For 4G Mobile Networks, In proc. of IEEE conference PDCAT'05, Dalian, 2005.
- 114. **Yu Zheng**, Dake He, Hongxia Wang, Xiaohu Tang. Secure DRM Scheme For Future Mobile Networks Based on Trusted Mobile Platform, In proc. of IEEE conference WCNM05, Wuhan, 2005
- 115. **Yu Zheng**, Dake He, Xiaohu Tang, Hongxia Wang. AKA and Authorization Scheme For 4G Mobile Networks Based on Trusted Mobile Platform, IEEE conference ICICS05, Thailand Bangkok, Nov.6-9, 2005
- 116. **Yu Zheng**, Xiaohu Tang, Dake He, Lixing Xu. Investigation on Pseudorandom Properties of FCSR Sequence, In proc. of IEEE conference ICCCAS05, Hong Kong, 2005.
- 117. **Yu Zheng**, Dake He, Lixing Xu, Xiaohu Tang. Security Scheme For 4G wireless Systems. In proc. of IEEE conference ICCCAS05. Hong Kong, 2005.
- 118. Yu Zheng, Dake He. Research on the security architecture of dynamic multicast (in Chinese), Chinese annual conference on Information security. 2005
- 119. **Yu Zheng,** Dake He. TC-Based AKA Scheme For 4G Mobile Networks, In proc. of International conf. IECT05, Chengdu, 2004
- 120.**Yu Zheng**, Dake He. Hybrid Authentication Architecture for 4G Mobile Communication Systems. WICSP'04, 2004, Chengdu China, pp.58-64.

# **Technical Report**

- Yu Zheng, Xuxu Chen, Qiwei Jin, Yubiao Chen, Xiangyun Qu, Xin Liu, Eric Chang, Wei-Ying Ma, Yong Rui, Weiwei Sun. A Cloud-Based Knowledge Discovery System for Monitoring Fine-Grained Air Quality. MSR-TR-2014-40.
- Nicholas Jing Yuan, Yu Zheng, Xing Xie. Segmentation of Urban Areas Using Road Networks. MSR-TR-2012-65. 2012.
- 3. Yin Zhu\*, **Yu Zheng**, Liuhang Zhang, Darshan Santani, Xing Xie, Qiang Yang. Inferring Taxi Status Using GPS Trajectories. MSR Technical Report. MSR-TR-2011-144. Mar. 2011. (Posted on arVix at Cornell)

## **Invited Articles in Magazines**

- 1. Yu Zheng. Urban Computing with Big Data. Communications of China Computer Federation (in Chinese), 2013.8
- 2. Yu Zheng. LBSN 2011 Workshop Report: The 3rd ACM SIGSPATIAL International Workshop on Location-Based Social Networks. SIGSPATIAL Special 4(1), 2012
- 3. Yu Zheng. ACM SIGSPATIAL GIS 2011 report (in Chinese). CCCF 2012.2.
- 4. **Yu Zheng**, Xing Xie. Enabling smart location-based services by mining GPS traces. Invited paper. In Journal on Communication of China Computer Federation (CCCF 2010, In Chinese).
- 5. Yu Zheng, Xing Xie. Location-based services on the Cloud. Invited Paper, Journal on Digital Mobile Era. (In Chinese). 2009
- 6. Xing Xie, **Yu Zheng**, Understanding User Behavior Geospatially, Invited Paper, Communications of China Computer Federation (in Chinese), Oct. 2008.

# Awards

## **10-Year Impact Awards**

- 1. 10-Year Impact award at ACM SIGSPATIAL GIS 2019
- 2. 10-Year Impact award at ACM SIGSPATIAL GIS 2020

#### **Best Paper Awards**

- 3. Best paper runner-up award at the 29th IEEE International Conference on Data Engineering (ICDE 2013).
- 4. Best paper award at the 7thInternational Conf. on Advanced Data Mining and Applications (ADMA 2011)
- 5. Best paper nominee at the 13th International Conference on Ubiquitous Computing (UbiComp 2011)
- 6. Best paper runner up award at ACM SIGSPATIAL GIS 2010
- 7. Best paper award at 8th International conference on Ubiquitous Intelligence and Computing (UIC 2010)
- 8. Outstanding Ph.D. thesis award from Southwest Jiaotong University 2007

## **Talent Awards**

- 1. 2014 Top 40 Business Elites under 40 in China by Fortune Magazine.
- 2. 2013 Top Innovators under 35 by MIT Technology Review (TR35)
- 3. Microsoft Golden Star, 2008.12
- 4. Outstanding Ph.D. student in Southwest Jiaotong University. 2005.10
- 5. The second prize of "Challenge Cup" National Contest of College Students of academic science and technology. 2001.12

#### **Technical Transfer Awards**

- 1. Merging location records. Shipped to Bing Local Search (Japan and China), Jan. 2010
- 2. A Chinese address breaker. Shipped to Bing Local Search (China). April, 2009.
- 3. Spatial outlier detection. Shipped to Bing Local Search (China). April. 2009

#### **Patent Awards**

- 1. MS 322848.01, "Learning Transportation Modes from Raw GPS Data", 6/20/2017. US9683858B2
- 2. MS 322389.01, "SYSTEM FOR LOGGING LIFE EXPERIENCES USING GEOGRAPHIC CUES", 3/3/2015. US8972177B2
- 3. MS 322852.01, ASM 8110, "INDEXING LARGE-SCALE GPS TRACKS", 2/28/2018. EP2263180A2
- International Patent. MS 324938.01, "Determining User Similarities Based on Location Histories", 11/3/2008. US20100111372
- US Patent. MS 325489.01, "Making Friend and Location Recommendations Based on Location Similarities", 11/17/2011. US20110282798A1
- International Patent. MS 326249.01, "Detecting Spatial Outliers in a Location Entity Dataset", 6/23/2015. US9063226B2
- 7. US Patent. MS 326004.01, "Identifying Interesting Locations", 2/20/2009
- 8. US Patent. MS 327345.01, "Search and Replay of Experiences", 5/27/2009
- 9. US Patent. MS 327344.01, "Location Context Based Calling", 6/3/2009
- 10. US Patent. MS 327346.01, "Nearby Contact Alert Based on Location and Context", 6/3/2009
- 11. US Patent. MS 327762.01 MS1-4846US, "Mining Life Pattern Based on Location History", 9/25/2012. US8275649B2
- 12. US Patent. MS 327763.01, MS1-4847US, "Recommending Points of Interests in a Region", 4/21/ 2016. US20160232179A1

- International Patent. MS 328341.01, MS1-4911US, "Route Computation Based on Route-Oriented Vehicle Trajectories", 2/16/2016. US9261376B2
- 14. US Patent. MS328342.01, MS1-4909US, "Map-Matching for Low-Sampling-Rate GPS Trajectories", 8/29/2019. US20190265047A1
- 15. US Patent. MS328339.01, MS1-4913US, "Mining Correlation Between Locations Using Human Location History", 12/17/ 2013. US8612134B2
- US Patent. MS329247.01, MS1-4950US, "Collaborative Location and Activity Recommendations", 5/6 /2014. US8719198B2
- US Patent. MS 329245.01, MS1-4949US, "Searching similar trajectories by locations", 5/11/2017. US20170131110A1
- 18. US Patent. MS 330719.01, "Prioritizing travel itineraries", 6/7/2012. US20120143882A1
- 19. US Patent. MS# 331672.01, "Inferring a behavior state of a vehicle", 9/24/2013. US8543320B2
- US/International Patent. 333873.01 / MS1-5200US, "Urban Computing of Route-Oriented Vehicles", 10/24/2011
- 21. US Patent. MS1-5341US. "Discover Functional Regions", 3/14/ 2013
- 22. US Patent. PCT5402. "Air quality inference Using Multiple data sources", 6/2013
- 23. US/International Patent. MS#342009.01. Measuring Traffic Speed in a Road Network, filed on 8/26/2014.
- 24. US/International Patent. Diagnosing urban noise with big data (MS# 342010.01). filed on 10/22/2014

# **Real Systems**

#### Urban Air: Inferring and Forecasting Fine-Grained Air Quality using Big Data (2013-)

A system that infers the real-time and fine-grained air quality throughout a city, based on historical and real-time reports from a limited number of existing air quality measurement stations and other data sources reflecting city dynamics: meteorology, traffic flow, human mobility, structure of road networks, and points of interests. Urban Air also forecasts fine-grained air quality over the next 48 hours. The system also suggests the number of measurement stations that a city needs and candidate locations for building new stations. Urban Air has been deployed with the Ministry of Environmental Protection of China, providing fine-grained air quality information for over 70 Chinese cities.

#### CityNoise: Diagnose Urban Noises using Big Data (2013-)

The project aims to diagnose a city's noise pollution with crowdsensing and ubiquitous data. It reveals the finegrained noise situation throughout a city and analyzes the composition of noises in a particular location, by using 311 complaint data together with road network data, points of interests, and social media.

#### T-Share: A large-Scale Dynamic Taxi Ridesharing Service (2012-2013)

T-Share is a large-scale dynamic taxi-sharing system that accepts passengers' real-time ride requests sent from smart phones and schedules taxis to pick up via ridesharing, subject to time, capacity and monetary constraints. The system yields significant social and environmental benefits. Compared with traditional non-ridesharing, *passengers* pay less and get a higher chance of being served; *taxi drivers* earn more money; *governments* save energy consumption and reduce the emission of air pollutants.

#### **<u>T-Drive</u>**: Driving Directions Based on Taxi Trajectories (2009-2011)

T-Drive is a navigation system providing personalized driving directions that adapt to weather, traffic conditions, and your own driving habits. The system uses GPS data from taxicabs to gather information about both real-time and

past traffic conditions. It also gleaned the weather from publicly available websites. The system uses these datasets to predict what traffic conditions a driver is likely to encounter upon arriving at various points on a path and to adjust the directions accordingly.

#### T-Finder: A Passenger-Cabbie Recommender System (2010-2012)

T-Finder is a recommender for taxi drivers and people expecting to take a taxi, using the knowledge of 1) passengers' mobility patterns and 2) taxi drivers' pick-up behaviors learned from the GPS trajectories of taxicabs. First, this recommender provides taxi drivers with some locations (and the routes to these locations), towards which they are more likely to pick up passengers quickly (during the routes or at the parking places) and maximize the profit. Second, it recommends people with some locations (within a walking distance) where they can easily find vacant taxis.

#### **<u>GeoLife</u>**: Building Social Networks using Human Location History (2007-2010)

GeoLife is one of the first location-based social-networking services. It enables users to share life experiences and build connections among each other using human location history. By mining many users' location histories, GeoLife discovers the top most interesting locations, classical travel sequences, and travel experts. By understanding individual location history, GeoLife measures the similarity between users and perform personalized friend & location recommendation.

# My Ph.D. Students

Xiuwen Yi, Southwest Jiaotong University, 2014.9 (Co-supervise with Prof. Tianrui Li) Huichu Zhang, Shanghai Jiao Tong University, 2015.9 (Co-supervise with Prof. Yong Yu) Zheyi Pang, Shanghai Jiao Tong University, 2015.9 (Co-supervise with Prof. Yong Yu) Shenggong Ji, Southwest Jiaotong University, 2015.9 (Co-supervise with Prof. Tianrui Li) Yexin Li, Hong Kong University of Science and Technology, 2015.9 Ruiyuan Li, Xidian University, 2016.9 Zhaoyuan Wang, Southwest Jiaotong University, 2016.9 Yuxuan Liang, Xidian University, 2017.9 Dekang Qi, Southwest Jiaotong University, 2017.9 Sijie Ruan, Xidian University, 2016.9 Huilin Qin, Xidian University, 2017.9 Shun Chen, Southwest Jiaotong University, 2018.9 Chunyang Li, Xidian University, 2018.9

# **My Master Students**

Haorang Xu, Xidian University, 2017.9 Junkai Sun, Xidian University, 2016.9 Qiaofei Li, Xidian University, 2017.9 Zhewen Duan, Xidian University, 2018.9 Zisheng Yu, Xidian University, 2018.9 Sai Zheng, Southwest Jiaotong University, 2018.9

# Selected Interns I have supervised

#### **Oversea Interns**

- 1. Sakshi Babbar, Ph.D. student @ University of Sydney, Australia
- 2. Sheng Chang, Ph.D. student @ National University of Singapore, Singapore
- 3. Zaiben Chen, Ph.D. student @ The University of Queensland, Australia
- 4. Yanjie Fu Ph.D. student @ Rutgers university, USA
- 5. Minh X. Hoang, Ph.D. candidate @ University of California at Santa Barba.
- 6. Bao Jie, Ph.D. student @ University of Minnesota, USA
- 7. Wei Liu, Ph.D. student @ University of Sydney, Australia
- 8. Ye Liu, Ph.D. student @ National University of Singapore, Singapore.
- 9. Hechen Liu, Ph.D. student @ University of Florida, USA
- 10. Xin Lu, Ph.D. student @ MIT, USA.
- 11. Shuo Ma, Ph.D. student @ University of Illinois at Chicago, USA
- 12. Chuishi Meng, Ph.D. student @ University at Buffalo, USA.
- 13. Bei Pan, Ph.D. student @ University of Southern California, USA
- 14. Darshan Santani, Ph.D. student @ ETH, Zurich
- 15. Lu-An Tang, Ph.D. student @ University of Illinois at Urbana-Champaign, USA
- 16. David Wilkie, Ph.D. student @ University of North Carolina at Chapel Hill, USA
- 17. Yexiang Xue, Ph.D. student @ Cornell University, USA
- 18. Yingxiang Yang, Ph.D. student @ MIT, USA.
- 19. Kawai Yong, Ph.D student @ University of Pittsburgh, USA
- 20. Hyoseok Yoon, Ph.D. student @ GIST University, South Korea
- 21. Xianyuan Zhan, Ph.D. candidate @ Purdue University
- 22. Chao Zhang, Ph.D. student @ University of Illinois at Urbana-Champaign, USA
- 23. Chengyang Zhang, Ph.D. student @ University of North Texas, USA
- 24. Xiao Zhang, Ph.D. student @ Penn State University, USA
- 25. Xianyuan Zhang, Ph.D. student @ Purdue University, USA
- 26. Kai Zheng, Ph.D. student @ The University of Queensland, Australia

#### Interns from Hong Kong, Macao and Taiwan

- 27. Chih-Chieh Hung, Ph.D. student @ National Chiao-Tung University, Taiwan
- 28. Hsun-Ping Hsie, Ph.D. student @ National Taiwan University
- 29. Yexin Li, Master student @ Hong Kong University of Science and Technology
- 30. Yuhong Li, Ph.D. student @ The University of Macao
- 31. Ying Wei, Ph.D. student @ Hong Kong University of Science and Technology (HKUST)
- 32. Vincent Wenchen Zheng, Ph.D. student @ Hong Kong University of Science and Technology (HKUST)

- 33. Xiangye Xiao, Ph.D. student @ Hong Kong University of Science and Technology (HKUST)
- 34. Ling-Ying Wei, Ph.D. student @ National Chiao-Tung University, Taiwan
- 35. Yixuan Zhu, @ the University of Hong Kong

#### **Interns from China Mainland**

- 36. Yubiao Chen. Ph.D. student @ HIT, China
- 37. Yukun Chen, Master student @ Tsinghua University, China
- 38. Xuxu Chen. Master student @ Fudan University, China
- 39. Jianqiao Feng. Undergraduate @ Peking University (went to Johns Hopkins University)
- 40. Xixuan Feng, Undergraduate student @ Peking University (went to University of Wisconsin-Madison)
- 41. Zhenni Feng, Ph.D. student @ Shanghai Jiao Tong University
- 42. Ge Gao, undergraduate student @ Wuhan University
- 43. Zhengqiang Gong, undergraduate student @ Uni.of Sci. and Technology of China (went to U.C. Berkeley)
- 44. Tianfu He, Ph.D. student @ HIT, China
- 45. Shenggong Ji, Ph.D. student @ Southwest Jiaotong University
- 46. Bohang Li, Undergraduate student @ Zhejiang University
- 47. Quannan Li, Undergraduate student @ Huazhong University of Science and Technology (went to UCLA)
- 48. Ruiyuan Li, Master student @ Wuhan University
- 49. Furui Liu, Undergraduate student @ Zhejiang University (went to Chinese University of Hong Kong)
- 50. Like Liu, Sichuan University @ (Joined Microsoft Research as an RSDE)
- 51. Tong Liu, Ph.D. student @ Shanghai Jiao Tong University
- 52. Yin Lou, Undergraduate student @ Fudan University, China (went to Cornell University)
- 53. Bai Long, Master student @ University of Science and Technology of China
- 54. Pengfei Qiu, Master student @ University of Science and Technology of China
- 55. Sijie Ruan, Undergraduate student @ Xidian University
- 56. Zhangqing Shan, Ph.D. student @ Fudan University
- 57. Jingbo Shang, Undergraduate student @ Shanghai Jiao Tong University (went to UIUC)
- 58. Junkai Sun, Undergraduate student @ Xidian University
- 59. Wenzhu Tong, Undergraduate Student @ Wuhan University (went to UIUC)
- 60. Yilun Wang, Undergraduate student @ Zhejiang University (went to Stanford)
- 61. Longhao Wang, Master student @ Renmin University (went to U.C. Berkeley)
- 62. Chenggang Wu, Master student @ Tianjing University
- 63. Wenlei Xie, Undergraduate student @ Fudan University (went to Cornell University)
- 64. Ye Yang, Master student @ Tsinghua University (went to Columbia University)
- 65. Xiuwen Yi, Ph.D. student @ Southwest Jiaotong University
- 66. Jing Yuan, Ph.D. student @ University of Science and Technology of China (Joined Microsoft Research)
- 67. Fuzheng Zhang, Ph.D. student @ University of Science and Technology of China (Joined Microsoft Research)
- 68. Lizhu Zhang, Master student @ Tsinghua University
- 69. Huichu Zhang, Ph.D. student @ Shanghai Jiao Tong University