

PERSONAL DETAILS

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RESEARCH INTERESTS

My research focuses on developing innovative Data Mining, Trustworthy Machine Learning, Human-Centered Computing, and Cyber-Physical Systems techniques to address real-world scientific and societal challenges related to *fairness, privacy, safety, resiliency, and sustainability* in different domains including Mobility, Energy, Healthcare, Economy, and Climate Change.

EMPLOYMENT

Assistant Professor in Computer Science 08.2022-current
Florida State University, USA

Postdoctoral Research Associate 09.2021-08.2022
Massachusetts Institute of Technology, USA
Host: Prof. Alex 'Sandy' Pentland

EDUCATION

Ph.D. of Computer Science 09.2017-08.2021
Rutgers University, USA
Advisor: Prof. Desheng Zhang GPA: 4.0/4.0

MS of Automation: Traffic Information Engineering & Control (ECE) 09.2014-03.2017
Beijing Jiaotong University, China
GPA: 3.97/4.0 Best Master Thesis Award (1/149)

BS of Automation: Transportation Information Engineering (ECE) 09.2010-07.2014
East China Jiaotong University, China
Junior-senior GPA: 3.94/4.0 Rank: 1/84

PROPOSALS & GRANTS

Summary: Since I joined FSU in Fall 2022, I have submitted 20 grant proposals, including 15 external grants (13 to NSF CISE Core, CPS, CSSI, ReDDDoT, PDaSP, SAI, CIS, HDBE programs, 1 to US DOT, and 1 to Amazon) and 5 internal grants. I was awarded 1 NSF CSSI grant and 4 internal grants (FSU SCS Program 2023, FSU FYAP 2023, FSU Accelerator Program 2023, and FSU Accelerator Program 2022) with \$615,000 in total. Some submitted proposals are listed below.

1. **Collaborative Research: Frameworks: MobilityNet: A Trustworthy CI Emulation Tool for Cross-Domain Mobility Data Generation and Sharing towards Multidisciplinary Innovations** (*Awarded*)
 - Program: National Science Foundation CSSI
 - Total Amount: \$2.26M. FSU Share: \$370,000
 - Date: 07/01/2024-06/30/2027
 - Role: FSU PI (with Desheng Zhang@Rutgers (Lead PI), Yuan Tian@UCLA PI, etc)
 2. **A Socially Informed Electric Vehicle Promotion Framework for Rural Innovation towards Environmental, Social, and Economic Sustainability** (*Awarded*)
 - Program: FSU Sustainability & Climate Solutions Grant
 - Total Amount: \$150,000
 - Date: 08/28/2023-08/27/2025
 - Role: Lead PI (with Tian Tang, Eric Coleman, and Eren Erman Ozguven)
 3. **Towards Multi-Sided Fairness in On-Demand Economy** (*Awarded*)
 - Program: FSU FYAP
 - Total Amount: \$20,000
 - Date: 05/08/2023-08/04/2023
 - Role: Solo PI
 4. **Playing for Better Health: Leveraging Entertainment and Education to Improve Health Literacy in the Digital Age** (*Awarded*)
 - Program: FSU Collaborative Collision
 - Total Amount: \$25,000
 - Date: 08/01/2023-07/31/2025
 - Role: Co-PI
 - Project Demo: <https://www.youtube.com/watch?v=f2dD7-p2ML4&t=1s>
 5. **Accelerator: Strengthening Disaster Resilience in Rural Communities through Rural Resource Access Hubs (RRAH)** (*Awarded*)
 - Program: FSU Collaborative Collision
 - Total Amount: \$50,000
 - Date: 08/01/2023-07/31/2025
 - Role: Co-PI
 - Project Demo: https://www.youtube.com/watch?v=Gv_dU1LyJuk
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6. **Collaborative Research: ReDDDoT Phase 2: Mitigating Emergency Evacuation Conflicts to Enhance Disaster Resilience in the Era of Transportation Electrification** (*Declined, Panel rating: **Highly Competitive (2 Excellent and 2 Very Good)***). The NSF ReDDDoT Working Group would like to see this project funded in a potentially different part of NSF. NSF S&CC Program Director is very interested in this project and encouraged us to submit to it.)
 - Program: National Science Foundation ReDDDoT

- Total Amount: \$1,500,000.
 - Date: 01/01/2025-12/31/2027
 - Role: Lead PI (with Eren Ozguven and Tian Tang@FSU, Yue Ge, Soheil Sabri@UCF)
7. **Collaborative Research: PDaSP: Track 3: MobiTrust: A Use-inspired Community-informed Tool for Privacy-preserving AI-Generated Synthetic Mobility Data** (*Pending*)
 - Program: National Science Foundation PDaSP
 - Total Amount: \$1,500,000
 - Date: 04/01/2025-03/31/2028
 - Role: Lead PI (with Yuan Tian and Jiaqi Ma@UCLA, Desheng Zhang@Rutgers)
 8. **Collaborative Research: CPS: Small: A Trustworthy Learning Framework for Autonomous Cyber-Physical Systems: Enhancing Reliability, Efficiency, and Fairness** (*Pending*)
 - Program: National Science Foundation CPS
 - Total Amount: \$500,000. My Share: \$250,000
 - Date: 01/01/2025-12/31/2027
 - Role: Lead PI (with Zheng Dong@Wayne State University)
 9. **OAC Core: AIGST: Generalizable and Scalable Cyberinfrastructure for Spatiotemporal Data Generation** (*Pending*)
 - Program: National Science Foundation CISE Core Program
 - Total Amount: \$600,000.
 - Date: 07/01/2025-06/30/2028
 - Role: Lead PI (with Eren Erman Ozguven)
 10. **Collaborative Research: CSR: Small: DataHorizon: Multi-Level Data Approximation for Mobile Edge Computing** (*Pending*)
 - Program: National Science Foundation CISE Core Program
 - Total Amount: \$599,997. My Share: \$200,000
 - Date: 01/01/2025-12/31/2027
 - Role: FSU PI (with Desheng Zhang (Lead PI)@Rutgers and Fei Miao@UConn)
 11. **Safeguarding Graph Machine-Learning-as-a-Service: Confidentiality and Authenticity** (*Pending*)
 - Program: FSU Seed Program
 - Total Amount: \$100,000. My Share: \$30,000
 - Date: 02/01/2025-01/31/2027
 - Role: Co-PI (with Yushun Dong (PI) and Zhe He)
 12. **Collaborative Research: Advancing Spatiotemporal Deep Learning for Emerging Mobility Systems** (*Declined*)
 - Program: National Science Foundation CIS
 - Total Amount: \$550,000. My Share: \$150,000
 - Date: 07/01/2024-06/30/2027

- Role: FSU PI (with Yan Leng (Lead PI), Kara Kockelman@UT Austin and Shenhao Wang@UF)
13. **Collaborative Research: CPS: Medium: Self-Reliant First Responder: A Real-time Reactive Adaptation Framework for Unforeseen Scenarios in Autonomous Driving** (*Declined*)
 - Program: National Science Foundation CPS
 - Total Amount: \$1,200,000. My Share: \$290,000
 - Date: 07/01/2024-06/30/2027
 - Role: FSU PI (with Weisong Shi@UD (Lead PI), Zheng Dong and Yanbing Mao@WSU)
 14. **SAI: Strengthening Micro-mobility Infrastructure with Synergetic Computational Social and Economic Theory** (*Declined, Panel Rating: Competitive*)
 - Program: National Science Foundation SAI
 - Total Amount: \$750,000. My Share: \$210,000
 - Date: 10/01/2023-09/30/2026
 - Role: FSU PI (with Yan Leng (Lead PI), Kara Kockelman@UT Austin and Shenhao Wang@UF)

PUBLICATIONS

Summary: My technical contributions led to over **75 publications** (19 first-author), and most of them are published in top-tier conferences and journals, including 1 Nature Cities, 6 ACM KDD, 7 ACM IMWUT/UbiComp, 8 ACM CIKM, 2 ACM MobiCom, 1 VLDB, 1 CSCW, 3 IEEE ICDE, 1 WWW, 2 AAAI, 2 IEEE RTSS (One Outstanding Paper Award), 4 SIGSPATIAL, 3 IEEE TKDE, 4 IEEE TMC, 2 ACM TIST. Selected publications are listed below and all publications can be found at [Google Scholar](#)

- [1] [\[Nature Cities\]](#) Shenhao Wang, Yunhan Zheng, [Guang Wang](#), Takahiro Yabe, Esteban Moro, and Alex ‘Sandy’ Pentland. Infrequent activities predict economic outcomes in major American cities. pages 1-10. 2024.
- [2] [\[ACM KDD’25\]](#) Zejun Xie, Wenjun Lyu, Yiwei Song, Haotian Wang, Guang Yang, Yunhuai Liu, Tian He, Desheng Zhang, and [Guang Wang*](#). Scalable Area Difficulty Assessment with Knowledge-enhanced AI for Nationwide Logistics Systems. *31st ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2025)*. pp. 1-12. (**Corresponding author**).
- [3] [\[ACM CSCW’24\]](#) [Guang Wang](#), Vivek K Singh, and Desheng Zhang. A Mixed-Methods Study of Wait Time Perception and Discrepancy in DiDi’s Technology-Mediated Mobility System. *Proceedings of the ACM on Human-Computer Interaction. (CSCW)*. pages 1–28, 2024.
- [4] [\[AAAI’24\]](#) Hongbo Zhang¹, [Guang Wang](#)¹, Xu Wang, Zhengyang Zhou, Chen Zhang, Zheng Dong, and Yang Wang. NondBREM: Nondeterministic Offline Reinforcement Learning for Large-scale Order Dispatching. *In Proceedings of the AAAI conference on artificial intelligence*. pages 1–8, 2024 (**Co-first author**).
- [5] [\[ACM IMWUT/UbiComp’24\]](#) Zhiqing Hong, Haotian Wang, Yi Ding, [Guang Wang*](#), Tian He, and Desheng Zhang. Smallmap: Low-cost community road map sensing with uncertain delivery behavior. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, pages 1–26, 2024. (**Corresponding author**).
- [6] [\[ACM KDD’24\]](#) Jinquan Hang, Zhiqing Hong, Xinyue Feng, [Guang Wang*](#), Guang Yang, Feng Li, Xining Song, and Desheng Zhang. Paths2Pair: Meta-path Based Link Prediction in Billion-Scale Commercial Heterogeneous Graphs. *30th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2024)*. pp. 1-11. (**Corresponding author**).

- [7] [\[ACM KDD'24\]](#) Kunlin Cai, Jinghuai Zhang, Will Shand, Zhiqing Hong, **Guang Wang**, Desheng Zhang, Jianfeng Chi, and Yuan Tian. Where have you been? A Study of Privacy Risk for Point-of-Interest Recommendation. *30th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2024)*. pp. 1-12.
- [8] [\[VLDB'24\]](#) Jinquan Hang, Zhiqing Hong, Xinyue Feng, **Guang Wang***, Dongjiang Cao, Jiayang Qiao, Haotian Wang, and Desheng Zhang. Complex-Path: Effective and Efficient Node Ranking with Paths in Billion-Scale Heterogeneous Graphs [Industry]. *50th International Conference on Very Large Databases (VLDB 2024)*. pp. 1-14. (Corresponding author).
- [9] [\[IEEE MASS'24\]](#) Tonmoy Dey, **Guang Wang***. FairSense: Fairness-Aware Urban Sensing with Submodular Spatio-Temporal Reward Maximization. *21st IEEE International Conference on Mobile Ad-Hoc and Smart Systems. (MASS 2024)*. pp. 1-9. (Corresponding author).
- [10] [\[ACM SIGSPATIAL'24\]](#) Dingyi Zhuang, Yuheng Bu, **Guang Wang**, Shenhao Wang, and Jinhua Zhao. SAUC: Sparsity-Aware Uncertainty Calibration for Spatiotemporal Prediction with Graph Neural Networks. *32nd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL)*. 2024. pp.1-12.
- [11] [\[ACM CIKM'24\]](#) Shuxin Zhong, Hua Wei, Wenjun Lyu, Guang Yang, Zhiqing Hong, **Guang Wang**, Yu Yang and Desheng Zhang. AdaTrans: Adaptive Transfer Time Prediction for Multi-modal Transportation Modes. *33rd ACM International Conference on Information and Knowledge Management. (CIKM 2024)*. pp. 1-9.
- [12] [\[ACM CIKM'24\]](#) Shuxin Zhong, Yahan Gu, Wenjun Lyu, Hongyu Lin, Guang Yang, Yao Lu, **Guang Wang**, Yu Yang and Desheng Zhang. A Behavior-aware Cause Identification Framework for Order Cancellation in Logistics Service. *33rd ACM International Conference on Information and Knowledge Management. (CIKM 2024)*. pp. 1-8.
- [13] [\[ACM CIKM'24\]](#) Shuxin Zhong, Wenjun Lyu, Zhiqing Hong, Guang Yang, Weijian Zuo, Haotian Wang, **Guang Wang**, Yu Yang and Desheng Zhang. Adaptive Cross-platform Transportation Time Prediction for Logistics. *33rd ACM International Conference on Information and Knowledge Management. (CIKM 2024)*. pp. 1-8.
- [14] [\[IEEE TKDE\]](#) Zhiqing Hong, **Guang Wang**, Wenjun Lyu, Baoshen Guo, Yi Ding, Haotian Wang, Shuai Wang, Yunhuai Liu, and Desheng Zhang. Nationwide Behavior-Aware Coordinates Mining from Uncertain Delivery Events. *IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE)* 2024. pp.1-18.
- [15] [\[ACM KDD'23\]](#) Lin Jiang, Shuai Wang, Baoshen Guo, Hai Wang, Desheng Zhang, **Guang Wang**. FairCod: A Fairness-aware Concurrent Dispatch System for Large-scale Instant Delivery Services. *29th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2023)*. pp. 1-10.
- [16] [\[IEEE TMC\]](#) **Guang Wang**, Sihong He, Lin Jiang, Shuai Wang, Fei Miao, Fan Zhang, Zheng Dong and Desheng Zhang. FairMove: A Data-Driven Vehicle Displacement System for Jointly Optimizing Profit Efficiency and Fairness of Electric For-Hire Vehicles. *IEEE Transactions on Mobile Computing (IEEE TMC)*. 2023. pp.1-18.
- [17] [\[ACM CIKM'23\]](#) Zhiqing Hong, Haotian Wang, Wenjun Lyu, Hai Wang, Yunhuai Liu, **Guang Wang***, Tian He and Desheng Zhang* (2023). AutoBuild: Automatic Community Building Labeling for Last-mile Delivery. *32nd ACM International Conference on Information and Knowledge Management (ACM CIKM) 2023*. (Co-Corresponding author). pp. 1-8.
- [18] [\[ACM CIKM'23\]](#) Zhiqing Hong, Dongjiang Cao, Haotian Wang, **Guang Wang***, Tian He and Desheng Zhang* (2023). Urban-scale POI Updating with Crowd Intelligence. *32nd ACM International Conference on Information and Knowledge Management (ACM CIKM) 2023*. (Co-Corresponding author). pp. 1-8.

- [19] [\[ACM CIKM'23\]](#) Xiaohui Zhao, Shuai Wang, Hai Wang, Tian He, Desheng Zhang and **Guang Wang** (2023). HST-GT: Heterogeneous Spatial-Temporal Graph Transformer for Delivery Time Estimation in Warehouse-Distribution Integration E-Commerce. *32nd ACM International Conference on Information and Knowledge Management (ACM CIKM) 2023*. pp. 1-10.
- [20] [\[ACM CIKM'23\]](#) Shuxin Zhong, William Yubeaton, Wenjun Lyu, **Guang Wang**, Desheng Zhang and Yu Yang (2023). RLIFE: Remaining Lifespan Prediction for E-scooters. *32nd ACM International Conference on Information and Knowledge Management (ACM CIKM) 2023*. pp. 1-10.
- [21] [\[IEEE ICDE'23\]](#) Wenjun Lyu, Haotian Wang, Zhiqing Hong, **Guang Wang**, Yu Yang, Yunhuai Liu, and Desheng Zhang. REDE: Exploring Relay Transportation for Efficient Last-mile Delivery. *39th IEEE International Conference on Data Engineering (IEEE ICDE) 2023*. pp.1-12.
- [22] [\[IEEE TKDE\]](#) Shuai Wang, Xin Zhu, **Guang Wang***, Yunhuai Liu, Tian He, and Desheng Zhang. eShare+: A Data-Driven Balancing Mechanism for Bike Sharing Systems Considering both Quality of Service and Maintenance. *IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE) 2023*. pp.1-16. (**Corresponding author**).
- [23] [\[IEEE TMC\]](#) Shuai Wang, Baoshen Guo, Yi Ding, **Guang Wang**, Suining He, Desheng Zhang, and Tian He. Time-Constrained Actor-Critic Reinforcement Learning for Concurrent Order Dispatch in On-demand Delivery. *IEEE Transactions on Mobile Computing (IEEE TMC)*. 2023. pp.1-16.
- [24] [\[IEEE TITS\]](#) Sihong He, Zhili Zhang, Shuo Han, Lynn Pepin, **Guang Wang**, Desheng Zhang, John Stankovic and Fei Miao (2023). Data-Driven Distributionally Robust Electric Vehicle Balancing for Autonomous Mobility-on-Demand Systems under Demand and Supply Uncertainties. *IEEE Transactions on Intelligent Transportation Systems (IEEE TITS) 2023*. pp.1-17.
- [25] [\[IEEE TMC\]](#) **Guang Wang**, Zhou Qin, Shuai Wang, Huijun Sun, Zheng Dong and Desheng Zhang. Towards Accessible Shared Autonomous Electric Mobility with Dynamic Deadlines. *IEEE Transactions on Mobile Computing (IEEE TMC)*. 2022. pp.1-16.
- [26] [\[ACM TOSN\]](#) **Guang Wang** Guang Wang, Yuefei Chen, Shuai Wang, Fan Zhang and Desheng Zhang. ForETaxi: Data-Driven Fleet-Oriented Charging Resource Allocation in Large-Scale Electric Taxi Networks. *ACM Transactions on Sensor Networks (ACM TOSN)*. 2022. pp.1-25.
- [27] [\[IEEE TKDE\]](#) Shuai Wang, Xin Zhu, **Guang Wang***, Desheng Zhang, Lai Tu and Tian He. W²Parking: A Data-Driven Win-Win Contract Parking Sharing Mechanism under Both Supply and Demand Uncertainties. *IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE) 2022*. pp.1-15. (**Corresponding author**).
- [28] [\[Nature Scientific Reports\]](#) Zhihan Fang¹, **Guang Wang**¹, Yu Yang, Fan Zhang, Yang Wang, and Desheng Zhang. A Long-term Travel Delay Measurement Study based on Multi-Modal Human Mobility Data. *Nature Scientific Reports*. 2022. pp.1-13. (Co-first author).
- [29] [\[ACM SIGSPATIAL'22\]](#) Zhiqing Hong, **Guang Wang**, Wenjun Lyu, Baoshen Guo, Yi Ding, Haotian Wang, Shuai Wang, Yunhuai Liu and Desheng Zhang. CoMiner: Nationwide Behavior-driven Unsupervised Spatial Coordinate Mining from Uncertain Delivery Events. *30th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2022*. pp.1-10.
- [30] [\[ACM SIGSPATIAL'22\]](#) Zhiqing Hong, Heng Yang, Haotian Wang, Wenjun Lyu, Yu Yang, **Guang Wang**, Yunhuai Liu, Yang Wang and Desheng Zhang. FastAddr: Real-time Abnormal Address Detection via Contrastive Augmentation for Location-based Services. *30th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2022*. pp.1-10.

- [31] [\[ACM CIKM'22\]](#) Wenjun Lyu, Kexin Zhang, Baoshen Guo, Zhiqing Hong, Guang Yang, Guang Wang, Yu Yang, Yunhuai Liu and Desheng Zhang. Towards Fair Workload Assessment via Homogeneous Order Grouping in Last-mile Delivery. 31st ACM International Conference on Information and Knowledge Management (*ACM CIKM*). 2022. pp.1-10.
- [32] [\[IEEE TITS\]](#) Shuai Su, Jia Qu, Yuan Cao, Ruoqing Li, and Guang Wang*. Adversarial Training Lattice LSTM for Named Entity Recognition of Rail Fault Texts. *IEEE Transactions on Intelligent Transportation Systems (IEEE TITS)*. 2022. pp.1-15. (Corresponding author)
- [33] [\[IEEE TMC\]](#) Lige Ding, Dong Zhao, Zhaofeng Wang, Guang Wang, Chang Tan, Lei Fan, and Huadong Ma. Learning to Help Emergency Vehicles Arrive Faster: A Cooperative Vehicle-Road Scheduling Approach. *IEEE Transactions on Mobile Computing (IEEE TMC)*. 2022. pp.1-13.
- [34] [\[ACM KDD'21\]](#) Guang Wang, Zhou Qin, Shuai Wang, Huijun Sun, Zheng Dong, and Desheng Zhang. Joint Real-Time Relocation and Charging for Electric Carsharing with Dynamic Deadlines. *27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2021)*. pp.1-11.
- [35] [\[ACM IMWUT/UbiComp'21\]](#) Guang Wang, Harsh Rajkumar, Huijun Sun, Jianjun Wu, Shuai Wang, and Desheng Zhang. Understanding User Behavior in Car Sharing Services Through the Lens of Mobility: Mixing Qualitative and Quantitative Studies. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, pp.1-30, 2021.
- [36] [\[IEEE ICDE'21\]](#) Guang Wang, Shuxin Zhong, Shuai Wang, Fei Miao, Zheng Dong, and Desheng Zhang. Data-Driven Fairness-Aware Vehicle Displacement for Large-Scale Electric Taxi Fleets. *37th IEEE International Conference on Data Engineering (ICDE 2021)*, pp.1-12.
- [37] [\[IEEE RTSS'21\]](#) Baoshen Guo, Shuai Wang, Yi Ding, Guang Wang, Suining He, Yanning Shen, Desheng Zhang and Tian He. Concurrent Order Dispatch for Instant Delivery via Time-Constrained Actor-Critic Reinforcement Learning. *In IEEE Real-Time Systems Symposium (RTSS), 2021*. pp.1-12. **Outstanding Paper Award**
- [38] [\[ACM KDD'21\]](#) Zhihan Fang, Guang Yang, Dian Zhang, Xiaoyang Xie, Guang Wang, Yu Yang, and Desheng Zhang. Mocha: Large-scale driving pattern characterization for usage-based insurance. *27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2021)*. pages 1-9.
- [39] [\[ACM IMWUT/UbiComp'21\]](#) Wenjun Lv, Guang Wang, Yu Yang and Desheng Zhang (2021). Mover: Generalizability Verification for Human Mobility Models via Heterogeneous Use Cases. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, 2021. pp. 1-20.
- [40] [\[ACM IMWUT/UbiComp'21\]](#) Zhihan Fang, Guang Wang, Xiaoyang Xie, Fan Zhang and Desheng Zhang. Urban Map Inference by Pervasive Vehicular Sensing Systems with Complementary Mobility. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, 2021. pages 1-23.
- [41] [\[IEEE ICDE'21\]](#) Kangjia Shao, Yang Wang, Zhengyang Zhou, Xike Xie, Guang Wang. TrajForesee: How limited detailed trajectories enhance large-scale sparse information to predict vehicle trajectories? *IEEE International Conference on Data Engineering (ICDE 2021)*. pp. 2189-2194.
- [42] [\[ACM IMWUT/UbiComp'20\]](#) Guang Wang, Yongfeng Zhang, Zhihan Fang, Fan Zhang, Shuai Wang, and Desheng Zhang. FairCharge: A Data-Driven Fairness-Aware Charging Recommendation System for Large-Scale Electric Taxi Fleets. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, 2020. pp. 1-25.
- [43] [\[ACM MobiCom'20\]](#) Yu Yang, Yi Ding, Dengpan Yuan, Guang Wang, Xiaoyang Xie, Yunhuai Liu, Tian He, and Desheng Zhang. TransLoc: Transparent Indoor Localization with Uncertain Human Participation for Instant Delivery. *In Proceedings of the 25th Annual International Conference on Mobile Computing and Networking (MobiCom)*, 2020. pages 1-14. Acceptance rate: 16%.

- [44] [\[ACM WWW'20\]](#) Zhihan Fang, **Guang Wang**, Shuai Wang, Chaoji Zuo, Fan Zhang and Desheng Zhang. CellRep: Usage Representativeness Modeling and Correction Based on Multiple City-Scale Cellular Networks. *The Web Conference (WWW)*, 2020. pp. 584-595. Acceptance rate: 19%.
- [45] [\[AAAI'20\]](#) Zuohui Fu, Yikun Xian, Shijie Geng, Yingqiang Ge, Yuting Wang, Xin Dong, **Guang Wang**, Gerard de Melo. ABSent: Cross-Lingual Sentence Representation Mapping with Bidirectional GANs. *AAAI*, 2020. pp.7756-7763. Acceptance rate: 20.6%.
- [46] [\[IEEE IROS'20\]](#) Sihong He, Lynn Pepin, **Guang Wang**, Desheng Zhang, and Fei Miao. Data-Driven Distributionally Robust Electric Vehicle Balancing for Mobility-on-Demand Systems under Demand and Supply Uncertainties. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. 2020. pp.1-8.
- [47] [\[ACM TIST\]](#) **Guang Wang**, Fan Zhang, Yang Wang, Huijun Sun, and Desheng Zhang. Understanding the Long-Term Evolution of Electric Taxi Networks: A Longitudinal Measurement Study on Mobility and Charging Patterns. *ACM Transaction on Intelligent System and Technology (ACM TIST)*. 2020. pages 1-27.
- [48] [\[ACM TIST\]](#) **Guang Wang**, Zhihan Fang, Xiaoyang Xie, Shuai Wang, Huijun Sun, Fan Zhang, Yunhuai Liu and Desheng Zhang. Pricing-Aware Real-Time Charging Scheduling and Charging Station Expansion for Large-Scale Electric Buses. *ACM Transaction on Intelligent System and Technology (ACM TIST)*, 2020. pp.1-26.
- [49] [\[ACM MobiCom'19\]](#) **Guang Wang**, Xiuyuan Chen, Fan Zhang, Yang Wang, and Desheng Zhang. Experience: Understanding Long-Term Evolving Patterns of Shared Electric Vehicle Networks. *In Proceedings of the 25th Annual International Conference on Mobile Computing and Networking (MobiCom)*, pp. 1-12. ACM, 2019. Acceptance rate: $56/290 = 19\%$.
- [50] [\[ACM IMWUT/UbiComp'19\]](#) **Guang Wang**, Wenzhong Li, Jun Zhang, Yingqiang Ge, Zuohui Fu, Fan Zhang, Yang Wang, and Desheng Zhang. sharedCharging: Data-Driven Shared Charging Scheduling for Large-Scale Heterogeneous Electric Vehicle Fleets. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)* 2019. pp. 1-25.
- [51] [\[ACM IMWUT/UbiComp'19\]](#) Xiaoyang Xie, Yu Yang, Zhihan Fang, **Guang Wang**, Fan Zhang, Fan Zhang, Yunhuai Liu, and Desheng Zhang. coSense: Collaborative Urban-Scale Vehicle Sensing Based on Heterogeneous Fleets. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, 2019. pages 1-25.
- [52] [\[IEEE RTSS'18\]](#) **Guang Wang**, Xiaoyang Xie, Fan Zhang, Yunhuai Liu, and Desheng Zhang. bCharge: Data-Driven Real-Time Charging Scheduling for Large-Scale Electric Bus Fleets. *In 39th IEEE Real-Time Systems Symposium (RTSS)*, 2018, pp. 45-55. Acceptance rate: 22%.

SELECTED HONORS & AWARDS

- CPS Rising Star, 2022
- FSU Collaborative Collision Runner-Up Award 2023
- IEEE Outstanding Leadership Award from IEEE SmartCity, 2022
- FSU Collaborative Collision Runner-Up Award 2022
- Outstanding Paper Awards from IEEE RTSS 2021
- Fellowship of Rutgers University CS Department, 2017 & 2018
- TA & RA Professional Development Fund Award of Rutgers University, 2018
- Best Master Thesis Award of Beijing Jiaotong University, 2017
- 2011 Collaborative Innovation Center Fellowship, 2016
- Traffic Control Technology Fellowship, 2016

- The First Prize Scholarship, 2014, 2015, 2016
- National Scholarship, 2014
- The Special Prize Scholarship, 2013, 2014

TEACHING

IDC4140/CAP5768 Introduction to Data Science <i>Instructor</i> 01.2025-05.2025 Enrollment:	Florida State University
CAP5795/CIS4930 Data Science for Smart Cities <i>Instructor</i> 08.2024-12.2024 Enrollment: 45	Florida State University
CAP5768/IDC4140 Introduction to Data Science <i>Instructor</i> 01.2024-05.2024 Enrollment: 49	Florida State University
CAP5778 Advanced Data Mining <i>Instructor</i> 08.2023-12.2023 Enrollment: 21	Florida State University
IDC4140/CAP5768 Introduction to Data Science <i>Instructor</i> 01.2023-05.2023 Enrollment: 88	Florida State University
CIS5930/CIS4930 Data Science for Smart Cities <i>Instructor</i> 08.2022-12.2022 Enrollment: 28	Florida State University
CS205 Discrete Structure I <i>Teaching Assistant</i> 06.2019-08.2019	Rutgers University
CS314 Principles of Programming Languages <i>Teaching Assistant</i> 01.2019-05.2019	Rutgers University
CS206 Discrete Structure II <i>Teaching Assistant</i> 09.2018-12.2018	Rutgers University
CS205 Discrete Structure I <i>Teaching Assistant</i> 06.2018-08.2018	Rutgers University
CS314 Principles of Programming Languages <i>Teaching Assistant</i> 01.2018-05.2018	Rutgers University
CS205 Discrete Structure I <i>Teaching Assistant</i> 09.2017-12.2017	Rutgers University
System Safety Design Based on Model Driven Architecture <i>Teaching Assistant</i> 09.2016-01.2017	Beijing Jiaotong University
Digital Signal Processing <i>Teaching Assistant</i> 02.2016-06.2016	Beijing Jiaotong University
System Safety Design Based on Model Driven Architecture <i>Teaching Assistant</i> 09.2014-01.2015	Beijing Jiaotong University

SERVICE

1. FSU Internal Services

- Faculty Evaluation Committee 2025
- Faculty Recruitment Committee 2025
- Graduate Curriculum Committee 2024
- Financial Aid & Admissions Committee 2024, 2025
- Graduate Studies Committee 2024, 2025
- Tenure & Promotion Committee 2023-2025

2. Funding Panel Reviewing

- **NSF Panel** of CIVIC Program
- **NSF Panel** of ReDDDoT Program
- **DOE Panel** of the Advancement for Artificial Intelligence for Science
- **NSF Panel** of CPS Program

3. Technical Program Committee

- **Publicity Chair** of the 20th IEEE SmartCity 2022
- AAAI Conference on Artificial Intelligence (AAAI 2023, 2024, 2025)
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2023, 2024, 2025)
- 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)
- 44th IEEE International Conference on Distributed Computing Systems (ICDCS 2024)
- 2024 IEEE International Conference on Big Data (BigData 2024)
- European Conference on Artificial Intelligence (ECAI 2024)
- SIAM Conference on Data Mining (SDM24)
- International Joint Conference on Artificial Intelligence (IJCAI 2023, 2024)
- The 7th International Workshop on Physics Embedded AI Solutions in Mobile Computing (MobiCom Picasso Workshop 2024)
- 2024 Cyber Awareness and Research Symposium (CARS)
- International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 23, 24)
- ACM Conference On Computer-Supported Cooperative Work And Social Computing (CSCW 2023)
- The Web Conference (WWW 2022)
- International Conference on Parallel and Distributed Systems (ICPADS 2021)
- The International AAAI Conference on Web and Social Media (ICWSM 2022, 2024)

4. Journal Reviewer

- 2019-present ACM on Interactive, Mobile, Wearable, Ubiquitous Technologies (ACM IMWUT)
- 2022-present Nature Scientific Reports
- 2021-present IEEE Transactions on Mobile Computing (IEEE TMC)
- 2023-present IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE)
- 2024-present IEEE/ACM Transactions on Networking (IEEE/ACM TON)
- 2024-present IEEE Transactions on Intelligent Transportation Systems (IEEE TITS)
- 2022-present IEEE Transactions on Services Computing (IEEE TSC)
- 2022-present IEEE Transactions on Intelligent Vehicles (IEEE TIV)
- 2022-present IEEE Transactions on Instrumentation & Measurement (IEEE TIM)

- 2022-present IEEE Transactions on Vehicular Technology (IEEE TVT)
- 2024-present IEEE Internet of Things Journal (IEEE IOTJ)
- 2022-present Transportation Research Part B
- 2024-present Transportation Research Part E
- 2022-present ACM Transactions on Recommender Systems (ACM TORS)
- 2022-present ACM Transactions on Sensor Networks (ACM TOSN)
- 2023-present ACM Journal on Autonomous Transportation Systems
- 2022-present IEEE Intelligent Transportation Systems Magazine
- 2022-present Computers in Industry
- 2022-present Information Sciences
- 2022-present Neural Computing and Applications
- 2022-present Journal of Ambient Intelligence and Humanized
- 2022-present Frontiers of Engineering Management (FEM)

STUDENT MENTOR

Lin Jiang	PhD Student at FSU; Trustworthy Decision Making
Tonmoy Dey	PhD Student at FSU; Vehicular Sensing
Dahai Yu	PhD Student at FSU; Uncertainty Quantification
Rongchao Xu	PhD Student at FSU; Generative Artificial Intelligence
Jinquan Hang	PhD Student at Rutgers University; Large GNN
Zejun Xie	PhD Student at Rutgers University; LLM Agent
Xinyue Feng	PhD Student at Rutgers University; LLM+GNN
Alexis Gabrielle Amoyo	Master Student at FSU; Trajectory Data Generation
David Mendelsohn	Master Student at FSU; Reinforcement Learning
Dongqing Wen	Master Student at FSU; Mobility Visualization
Michael Zahorec	Master Student at FSU; Explainable AI
Ian Bridges	Undergraduate Student at FSU; FSU IDEA Program
Reagan Bourne	Undergraduate Student at FSU; EV visualization
Judah Alter	Undergraduate Student at FSU; FSU UROP Program
Anish Saha	High School Student; James S. Rickards High School