Rong Zheng

Canada Research Chair on Mobile Computing (Tier-1)

BUSINESS ADDRESS

Room 121
Information Technology Building
1280 Main Street West
Hamilton, Ontario
Canada L8S 4K1
Tel: +1(905)525-9140 x 22891

EDUCATIONAL BACKGROUND

Degrees and Diplomas

2004	Ph.D. in Computer Science, University of Illinois, Urbana-Champaign, USA
1998	Master of Engineering (thesis) in Electrical Engr., Tsinghua University, Beijing, China
1996	Bachelor of Engineering in Electrical Engr, Tsinghua University, Beijing, China

CURRENT STATUS AT MCMASTER

2018 – present	Professor, Department of Computing and Software
2021 – present	Associate Member, Master School of Biomedical Engineering
2017 – present	Member, McMaster Institute for Research on Aging
2013 – present	Associate Member, Department of Electrical and Computer Engineering

PROFESSIONAL ORGANIZATIONS

2015 – present	Professional Engineer of Ontario
2010 - present	Senior Member, IEEE
2004 – present	Member, ACM

EMPLOYMENT HISTORY

Academic

2018 – present	Professor, Department of Computing and Software
2017 – 2021	Associate Chair of Graduate Study and Research
2016 – 2020	Principal Investigator, McMaster Computing Infrastructure Center (CIRC)
2013 – 2018	Associate Professor (tenured), Dept. of Computing and Software, McMaster University
2010 – 2012	Associate Professor (tenured), Dept. of Computer Science, University of Houston, USA
2004 – 2010	Assistant Professor (tenure-track), Dept. of Computer Science, University of Houston, USA

Other

09/20 –	Director, NSERC sMAP CREATE program
09/19 – 06/20	Visiting Professor, Harbin Institute of Technology, ShenZhen, China
02/12 – 04/12	Visiting Scientist, Microsoft Research, Redmond, USA
08/11 – 01/12	Visiting Associate Professor, Hong Kong Polytechnic University, China
06/00 – 08/00	Research Intern, Bell Labs, Lucent, Holmdel, NJ

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Editorial Boards

2018 - 2022	Editor, IEEE Transactions on Mobile Computing
2018 - 2019	Editor, IEEE Transactions on Network Science and Engineering

2015 - 2019	Editor, IEEE Transactions on Wireless Communications
2017	Guest Editor, IEEE Transactions on Network Science and Engineering, SI on Learning-based Management, Modeling and Control in Networking
2012	Guest Editor, Elsevier Computer Communications, SI on Cyber Physical Systems
2008	Guest Editor, EURASIP Journal on Advances in Signal Processing, SI on Wireless Location Estimation and Tracking

Steering committee

2021 –	ACM SenSys

Conference/Workshop Organization

2024	Area Chair, IEEE INFOCOM
2024	General Program, IEEE Conference on Smart Mobility
2023	Program co-chair, ACM Workshop on mmWave Sensing Systems and Applications
2021	Program co-chair, ACM SenSys 2021
2021	Program co-chair, ACM Workshop on Cyber Physical Human System Design and Implementation
2020	Demo and poster co-chair, ACM MobiSys 2020
2019	Program co-chair, IEEE Smart Internet of Things 2020
2018	Workshop, Tutorial, Competition Co-Chair, CPS-IoT week 2019
2017	Technical Program Co-Chair, ACM Workshop on Mobile Crowdsensing Systems and Applications, co-located with ACM SenSys
2016	General Co-chair, IEEE IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC)
2014	Technical Program Co-Chair, ACM Workshop on MobileHealth, co-located with ACM MobiHoc
2012	Technical Program Co-Chair, IEEE International Conference on Cyber, Physical and Social Computing (CPSCom)
2012	Technical Program Co-Chair, International Conference on Wireless Algorithms, Systems, and Applications (WASA)

External Grant & Personnel Committees

2017, 2021	Ontario Early Researcher Award
2015 – 2017	NSERC Discovery Grant Computer Science Evaluation Group
2009/10/12/14	US National Science Foundation (NSF) Panel

Journal Referee

2023	ACM Transactions on Sensor Networks
2021	ACM Transactions on Internet of Things
2006 – 2017	IEEE Transactions on Wireless Communications
2004 – 2015	IEEE Transactions on Mobile Computing
2004 – present	IEEE Journal of Selected Area of Communications
2008 – 2013	ACM Transactions on Sensor Networks

External Grant Reviews

2023	Ireland Industry RD&I Fellowship
2022	Research Grants Council (Hong Kong)
2020 – 2023	Mitacs Accelerate Award
2017	Alberta Innovates Strategic Research Projects
2016, 17, 18	Technology innovation development award (TIDA), Science Foundation Ireland
2013/14	NSERC Discovery Grants
2013	NSERC Strategic Grants
2011	NSERC Collaborative Research and Development (CRD) Grants

HONOURS AND AWARDS

2022	N2Women Stars in Networking and Communication
2021 - 23	Dean's Doctoral Mentoring Honor Roll
2020 -	Canada Research Chair (Tier-1) in Mobile Computing
2019	NSERC Discover Accelerator Supplement
2019	Best paper award, IEEE International Conference on Communications (ICC)
2015 – 2018	Joseph Ip Engineering Fellow
2017	1st Place in indoor localization competition (Infrastructureless category), The 16th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN)
2015	IEEE CPSWeek best demo award
2013	IEEE WCNC best paper award
2010	University of Houston research excellence award
2009	Departmental academic accomplishment award, University of Houston
2006	US National Science Foundation CAREER Award

COURSES TAUGHT (McMaster)

Undergraduate

Computing and Software

01/2023 – 04/2023	Instructor, COMP SCI/SFWR ENG 4C03, 140 students
01/2022 – 04/2022	Instructor, COMP SCI/SFWR ENG 4C03, 183 students
01/2021 – 04/2021	Instructor, COMP SCI/SFWR ENG 4C03, 230 students
01/2019 – 04/2019	Instructor, COMP SCI/SFWR ENG 4C03, 211 students
01/2018 – 04/2018	Instructor, COMP SCI/SFWR ENG 4C03, 153 students
01/2017 – 04/2017	Instructor, COMP SCI/SFWR ENG 4C03, 183 students
01/2016 – 04/2016	Instructor, COMP SCI 3SH3, 64 students (new course)
01/2016 – 04/2016	Instructor, COMP SCI/SFWR ENG 4C03, 116 students
01/2015 – 04/2015	Instructor, COMP SCI/SFWR ENG 3SH3, 136 students
01/2015 – 04/2015	Instructor, COMP SCI/SFWR ENG 4C03, 153 students
09/2014 – 04/2015	Instructor, COMP SCI 4ZP6, 43 students
01/2014 – 04/2014	Instructor, COMP SCI/SFWR ENG 3SH3, 124 students
01/2014 – 04/2014	Instructor, SFWR_ENG 4J03, 31 students

Graduate

09/2024 – 12/2024	Co-instructor, CAS 781, 14 students
09/2023 – 12/2023	Co-instructor, CAS 781, 10 students
09/2022 – 12/2022	Co-instructor, CAS 781, 8 students
01/2022 – 04/2022	Co-instructor, CAS 781, 10 students
09/2021 – 12/2021	Co-instructor, CAS 781, 9 students
01/2021 – 04/2020	Co-instructor, CAS 781, 8 students
09/2020 – 12/2020	Co-instructor, CAS 781, 12 students
09/2018 – 12/2018	Instructor, CAS 772, 8 students
09/2017 – 12/2017	Instructor, CAS 772, 11 students
09/2015 – 12/2015	Instructor, CAS 765, 4 students
09/2013 – 12/2013	Instructor, CAS 765, 9 students

CONTRIBUTIONS TO TEACHING PRACTICE

Course/Curriculum Development

- Develop two graduate courses for the sMAP CREATE program
- Redesign COMP SCI 3SH3 into a practice and experience course with significant hand-on lab components.
- Revamp Master of Engineering programs
- Redesign graduate curriculum

SUPERVISORSHIPS

	PhD McMaster/UH*	MASc/MSc McMaster/UH	MEng McMaster	PDF McMaster/UH	Undergrad McMaster
In-progress	6/0	3/0	2	0/0	0
Completed	10/5	7/10	16	4/1	17

*UH – University of Houston

Master (Thesis)

In progress

09/2021 – Bodee Quansah, Biomedical Engineering, Open Platform for Binaural Acoustic Research
09/2021 – Boyu Jiang, Software Engineering, mmWave-based Gesture Recognition
09/2023 – Zimeng Zhou, Computer Science, mmWave-based Human-centric Sensing

Completed

09/2020 – 10/2022 Xijian Lou, Computer Science, Data-driven Models for 3D Joint Angle Estimation, Unity
09/2018 – 12/2020 Shervin Manzuri, Computer Science, ConDi: Downsampling of Ambiguous Clips for Efficient Action Recognition Using Confidence Distillation (co-supervised with Fei Chiang), Data scientist, Goldspot Discoveries Corp.
09/2017 – 04/2019 Cristian Frincu, Computer Science, "Informative Path Planning for Data Collection in Indoor Environments", Embedded software engineer, Geotab
09/2016 – 08/2018 Chenhe Li, Computer Science, "Design of Two-tier Wireless Sensor Networks for Data Center Monitoring", Huawei Canada
09/2016 – 08/2018 Jun Li, Computer Science, "Design of an Ultra-Wide Band based Indoor Positioning System", Huawei Canada
09/2015 – 12/2017 Mohamed Hammuda, Electrical and Computer Engineering, "Learning-Based Multi-Channel Spectrum Access in Full-duplex Cognitive Radio Networks with Unknown Primary User Activities" (co-supervision with Tim Davidson), Digital payload system architect, MDA
09/2015 – 12/2017 Yu-Ting Wang, Electrical and Computer Engineering, "Design of an Asynchronous Acoustic System for Indoor Localization" (Best MS thesis award, Dept. of ECE, McMaster University), Primary Supervisory, Co-supervision with Dongmei Zhao, Current Position: Software Designer at Evertz Microsystems Ltd.
09/2010 – 05/2013 Thanh Le, "Sequential Learning in Wireless Network Monitoring", Primary Supervisor, Co-supervision with Dr. Zhu Han, Solution Engr., Current Position: COMIT Corp.
09/2010 – 05/2012 Sai Shiva Kailaswar, "An Empirical Characterization of Concrete Channel and Modulation", Current Position: Device Characterization Engineer at Micron Technology
09/2008 – 05/2011 Pallavi Arora, "Multi-armed Bandits in Cooperative Network Monitoring", Current Position: Software Engr. in Amazon
09/2009 – 05/2011 Seifenlaser Hamed, "A framework for participatory sensing for location-based services", Current Position: Software Engineer at Plunkett Research
09/2008 - 05/2010 Song Wei, "Design and Evaluation of Multi-channel Multi-radio MAC", Current Position: Lead Android Developer at Time Warner Inc.
09/2007 - 05/2009 Arun Chhetri, "Monitoring Architecture for Wireless Infrastructure Networks", Current Position: Senior Engr. Manager, Samsung Mobile
09/2006 - 05/2008 Amit Pendharkar, "Obstacle Discovery in Distributed Active Sensor Networks", Current Position: Imaging Geophysicist at CGGV eritas
09/2005 - 05/2007 Vivek Aseeja, MeshMan: "A Management Framework for Wireless Mesh", Current Position: Software Engineer at NVIDIA
09/2004 - 05/2006 Muqsith A. Mohammad, "Wireless Localization Based on Radio Signal Strength Mapping", Current Position: Embedded Software Engineer at Intel
09/2004 - 05/2006 Sumit Singhals, "ANDES: Anomaly detection in Wireless Sensor Networks", Current Position: N/A

Master of Engineering (Project)

In progress

Completed

09/2022 – 08/2024	Quan Yuan, Computer Science, “mmWave-based Indoor Mapping”
09/2022 – 08/2024	Yongqi Pi, Computer Science, “mmWave-based Indoor Localization”
09/2021 – 12/2022	Liang Xu, Computer Science, “Implementation of a Simulation Engine for IMU Data”
09/2020 – 12/2021	Ruizhe Zhang, Computer Science, A Two-stage Model for Multi-camera, Multi-target Tracking”, Amazon
09/2020 – 12/2021	Nazanin Moshtagh, Computer Science, “Binaural Sound Event Classification”
09/2018 – 08/2021	Ge Chen, Computer Science, “A Calibration Platform for IMU Devices”, Localization”, Current Position: Embedded Engr., Ford Corp.
09/2019 – 12/2020	Tianyuan Zhang, Computer Science, “Cleaning IMU Data”
09/2019 – 05/2020	Jianpeng Liu, Computer Science, “Semi-supervised Learning for WiFi-based Indoor
09/2018 – 12/2019	Xiaodong Xu, Computer Science, “Automatic Synchronization of Wearable Sensors and MOCAP System for HAR Ground Truth Annotation”, Current Position: Sofware engr. , Facebook
09/2017 – 12/2018	Hongbin Jia, Computer Science, “MacQuest Event Application Programming Interface and Augmented Reality Extension”
09/2017 – 12/2018	Marshall Wice, Software Engineering, “End-to-end Indoor Signage Detection on a Mobile Platform”
01/2017 – 08/2018	Arooj Ahmed, Computer Science, “Ischemic Stroke Detection using EEG Signals”
09/2016 – 12/2017	Chen Zhu, Computer Science, “Routing in 2-D Maps”
09/2016 – 12/2017	Zhe Gong, Computer Science, “Indoor-outdoor and floor change detection using Smartphone Sensors”
09/2014 – 04/2016	Tianwei Liu, Computer Science, “iOS App for MacQuest and Map Validation”
09/2014 – 12/2015	Zhen Cheng, Computer Science, “MacQuest Architecture and Client Design”
09/2014 – 12/2015	Wenbo Liu, Computer Science, “Assessing and Developing Video Conferencing tools for Tele-health Solutions”
09/2014 – 12/2015	Xiang Xiao, Computer Science, “Door-to-Door Route Planning in Indoor-Outdoor Pathway Network”
09/2013 – 05/2014	George Ibrahim, e-Health, “A Survey of Mobile Health and Medical Applications”

Doctoral

In progress

09/2023 –	Margaret Xie, Computer Science, CV-based Exercise Assessment (transferred from Master’s program in Sept 2024)
09/2022 –	Yunkai Yu, Computer Science, Invariant Machine Learning Models for Human Motion Analysis
09/2022 –	Andrew Mitchell, Computer Science, Physics and Physiology Informed Human Motion Analysis (*transferred from MSc program in 2022*)
09/2021 –	Renjie Xu, Computer Science, “Computation Acceleration for Visual Scene Analysis”
09/2021 –	Longyun Liao, Computer Science, “Vision-based Human Pose Estimation”
09/2021 –	Navid Zandi, Computer Science, “Binaural Acoustic Localization and Spatialization”

Completed

05/2019 – 04/2024	Wei Zhao, Computer Science, “mmWave-based Indoor Simultaneous Localization and Mappig”
09/2018 – 08/2023	Keivan Nalaie, Computer Science, “Computation Acceleration for Multi-camera Multi-target Tracking”, postdoctoral researcher in Mayo Clinic, Minnesota
05/2018 – 08/2022	Yujiao Hao, Computer Science, “Overcoming Data Scarcity in IMU-based Human Motion Analysis”, Current Position: Researcher, Huawei, Canada
09/2017 – 08/2021	Sahar Asgari, Mechanical Engineering, “Hybrid surrogate model for pressure and temperature prediction in a data center and its application” (co-supervision with Ishwar Puri), Current Position: Methodologist, Ontario Ministry of Health
09/2017 – 05/2021	Mehdi Jafarizadeh, Computer Science, “Reliable Data Acquisition Protocol for Data Center monitoring”, Current Position: 5G Research Engineer at Shabodi
09/2017 – 05/2021	Yongyong Wei, Computer Science, “Active Learning in Mobile CrowdSensing”, Current Position: Research Engineer, SAP Canada

09/2015 – 08/2019	Yihao Fang, Computer Science, "Deep Learning Goes Mobile", Current Position: Course coordinator, York University
09/2013 – 12/2017	Qiang Xu, Computer Science, "Design and Evaluation of Indoor Localization Techniques and Systems", Current Position: Research Scientist, HMI labs, Huawei Canada
09/2013 – 12/2017	Ala Shaabana, Computer Science, "A Wearable System for Classifying Fine Gestures On the Extremities Level using Electromyography", Current Position: Bittsensor
09/2013 – 12/2015	Hadi Meshgi, Electrical and Computer Engineering, "Radio Resource Management in Wireless Networks with Multicast Transmissions", (co-supervision with Dongmei Zhao as primary), Current Position: Project Engr., Crosslinx Transit Solutions
09/2009 – 05/2013	Huy Nguyen, "Learning and Inference in Graphical Structures", Current Position: Director, Data Science, IHS Markit Inc
09/2009 – 05/2013	Nam Nguyen, "Non-parametric Bayesian Learning and Applications" Joint Supervision with Dr. Zhu Han, Current Position: Staff Data Scientist at Wayfair
09/2009 – 05/2013	Guanbo Zheng, "Robust MAC Design in 60GHz Millimeter Wave Wireless Networks", Current Position: Sr. Engineer, Enbridge
01/2009 – 12/2012	Khuong Vu, "Variants of Voronoi Diagrams and Their Applications", Current Position: R&D Engineer at Candence Design Systems
09/2005 – 05/2011	Soji Omiwade, "Data Recovery in Wireless Sensor Networks", Current Position: Senior Software Engineer, Aramco Service Company

Post-Doctoral Fellowship

In progress

Completed

03/2021 – 03/2023	Bo Zhang, Research engineer, RaySecur
12/2022 – 02/2023	Wen Cai, Associate Professor, Northwestern University, China
09/2019 – 08/2021	Awny M. El-Mohandes, Senior ASIC Engineer, Ciena
05/2017 – 04/2019	Peiying Tsai, Assistant Professor, York University (co-supervision with Ishwar Puri)
09/2006 – 12/2008	Cunqing Hua, Professor, Shanghai Jiaotong University, China

Supervisory Committees

2022 –	Zikai Dou, CAS, Supervisor: Fei Chiang
2022 –	Xin Che, CAS, Supervisor: Lingyan Chu
2022 –	Matthew Ruder, Kinesiology, Supervisor: Dylan Kobsar
2021 –	Patrick Chin, Mechanical, Supervisor: Stephen Veldhuis
2021 –	Qing Liu, CAS, Supervisor: Hassan Ashtiani
2021 –	Elizabeth Hofer, CAS, Supervisor: Hassan Ashtiani
2020 – 2022	Xiaoxuan Chu, ECE, Supervisor: Max Wong
2020 – 2022	Nima Mashayekhi, CAS, Supervisor: Hassan Ashtiani
2016 – 2020	Zheng Zheng, CAS, Supervisor: Fei Chiang
2017 – 2021	Yang Bo, Computer Science, Supervisor: Wenbo He
2017 – 2019	Morteza Mirhoseini, Computer Science, Supervisor: Doug Down
2017 – 2018	Markimba Williams, Electrical and Computer Engineering, Supervisor: Thia Kiruba
2016 – 2018	Duy Vu, Computer Science, Supervisor: Borzoo Bonakdarpour

Examiners

Internal

2022	Yangdi Lu (PhD), CAS, Supervisor: Wenbo He
2022	Huan Liu (PhD), ECE, Supervisor: Jun Chen
2022	Alireza Fathollah Pour (MASc),, CAS, Supervisor: Hassan Ashtiani
2018	Canxiu Zhang (MASc), Electrical and Computer Engineering, Supervisor: Max Wong
2016	Salvatore D'Amore (MASc), Computing and Software, Supervisor: Jacques Carette
2015	Hadi Meshgi (PhD), Electrical and Computer Engineering, Supervisor: Dongmei Zhao, Rong Zheng

2015	Jonathan Tong (PhD), Psychology, Supervisor:
2014	Aaron Wilson (MASc), Computing and Software, Supervisor: M. v.Mohrenschildt

External

2019	Zimu Zheng (PhD), Hong Kong Polytechnic University, Supervisor: Dan Wang
2017	Jun Li (PhD), University of Toronto, Supervisor: Baochun Li
2017	Md Mizanur Rahman (PhD), Ryerson University, Supervisor: Jelena Misic, Vojislav Misic
2017	Han Li (MS), University of Melbourne, Australia, Supervisor: Jianzhong Qi
2016	Wei Wang (PhD), University of Toronto, Supervisor: Ben Liang and Baochun Li
2015	Xiaoqiang Ma (PhD), Simon Fraser University, Supervisor: Jiangchuan Liu
2015	Zhingming Zheng (PhD), University of Waterloo, Supervisor: Sherman Shen

Undergraduate Research Student (McMaster University)

05/2023 – 08/2023	Dalia Taylor, "A Mobile App for HRTF Self-Assessment ", NSERC USRA
05/2023 – 08/2023	Luxsa Nanthakumaran, "Digital annotations for Online Tai Chi"
05/2023 – 08/2023	Pesara Amarasekera, "Indoor mapping and localization using mmWave Radar"
05/2022 – 08/2022	Quan Yuan, "Control software for a rotating RADAR platform"
07/2022 – 10/2022	Zimeng Zhou, "mmWave-based Hand Gesture Recognition", Mitacs Globalink
05/2022 – 07/2022	Rida Safeer, "Scaping Online Tai Chi Videos", EREA
05/2022 – 08/2022	David Chung, "Avatar for Online Tai Chi", EREA
11/2021 – 04/2021	Adrian Sochaniwsky, "Design of a rotating RADAR platform"
05/2021 – 08/2021	Samuel Parent, "Design of an acoustic measurement platform", EREA
05/2021 – 08/2021	Gaole Dai, "Calibration methods for 3D joint angle estimation", Mitacs Globalink
07/2019 – 08/2019	Haiming Zhu, "Benchmarking DNN models on embedded devices", Mitacs Globalink
05/2019 – 08/2019	William Luders, "Visualization of MoCapture data", NSERC USRA
05/2019 – 08/2019	Sandhiya Radhaharan, "MobilityAI", EREA
05/2019 – 08/2019	Jiamin Zhou, "MobilityAI"
01/2019 – 04/2019	Ziyi Jin, "TeamNet: A Collaborative Inference Framework on the Edge"
05/2018 – 08/2018	Daniel Rubinstein, "MacQuest Event Planning App", EREA
05/2018 – 08/2018	Alex Lo, "MacQuest Event Planning Server"
05/2018 – 08/2018	George Zhang, "Autonomous Fault Prediction in Coaxial Cable Data Networks", USRA
05/2017 – 08/2017	Eric Tran, "MacQuest++", USRA
05/2017 – 08/2017	Luka Samac, "Design of a UAV for Data Center Monitoring", USRA
05/2016 – 04/2017	Cristian Frincu, "Design of a Rover Robot for Indoor Survey"
05/2016 – 07/2016	Akhilesh Rawat, "Design of an acoustic board for indoor ranging", Mitacs Globalink
05/2015 – 08/2015	Chenhe Li, "Comparison of Indoor Localization using WiFi fingerprints and Trilateration"
05/2015 – 07/2015	Mingzhi Yu, "A Face Recognition App for Smart Glasses"
05/2015 – 08/2015	Zhikun Luo, "A Smartphone App for Acoustic Pairwise Ranging", Mitacs Globalink

Visiting Scholars and Students

10/2023 – 04/2023	Can Xue, Zhejiang University, China
05/2022 – 12/2022	Chuan Liu, Huazhong University of Science and Technology, China
10/2019 – 10/2020	Luchi Hua, Zhejiang University, China
09/2016 – 09/2017	Chaokun Zhang, Tsinghua University, China
09/2016 – 12/2017	Haifeng Lin, Nanjing Forestry University, China
01/2009 – 06/2009	Na Xia, Professor, Hefei University of Science and Technology, China

LIFETIME RESEARCH FUNDING (External)

1. Rong Zheng, Natalia Nikolova, Anthea Innes, Non-Contact mmWave-based Health Monitoring Systems for Memory Care, NSERC Alliance (PI), 08/2024 – 07/2027, $665,814
2. Rong Zheng, Ian Bruce, Ewan McPherson, Toward Acoustic Virtual and Augmented Reality on Commodity

Hardware, New Frontiers in Research Fund (Exploration) (**PI**), 03/2022 – 02/2025, $250,000

3. Rong Zheng, Robust Non-contact RF Sensing for Human Vital Sign and Activity Monitoring, Mitacs Accelerate, 03/2021 – 02/2023, $175,000
4. Rong Zheng et al., CREATE: Smart Mobility for the Aging Populations (PI), Natural Sciences and Engineering Research Council of Canada (NSERC) (**PI**), 09/2020 – 08/2027, $1,650,000
5. Rong Zheng, Discovery: Enabling Interactive Perception Applications on Edge Devices, Natural Sciences and Engineering Research Council of Canada (NSERC), 05/2019 – 04/2025, $330,000
    a. NSERC Discovery Accelerator Supplement, 05/2019 – 04/2024, $120,000
6. Rong Zheng, iLOS: A Composable and Efficient Indoor Localization Engine, Natural Sciences and Engineering Research Council of Canada (NSERC), 10/2018 – 09/2018, $125,000
7. Rong Zheng, Autonomous Fault Prediction in Coaxial Cable Data Networks (DOCSIS), Natural Sciences and Engineering Research Council of Canada (NSERC), Ontario Center of Excellence VIP-I, Clearcable Networks, 05/2018 – 04/2019, $50,000
8. Fei Chiang, Rong Zheng, CRD: Data-Driven Platform for Multimodal Positioning and Tracking in Indoor Environments, 02/2017 – 01/2019, $690,000
9. Rong Zheng, Ishwar Puri, Doug Down, CRD: Autonomous Monitoring of Data Centre Operations (**PI**), Natural Sciences and Engineering Research Council of Canada (NSERC), Cinnos Mission Critical Incorporated, 12/2016 - 12/2021, $1.4M
10. Rong Zheng, Ruhai Wu, Kui Wu (UVic), SPG-P: ShareCrowd: A New Paradigm for Mobile Crowdsensing (**PI**), Natural Sciences and Engineering Research Council of Canada (NSERC), 10/2016 - 09/2019, $467,000
11. Rong Zheng, ENGAGE: Whisper: An Acoustic-based Proximity Detection System, 2015, $25,000
12. Rong Zheng, ENGAGE: Overcoming the Digital Divide: Assessing and Developing Video Conferencing-based Tele-health Solutions in Bandwidth-constrained Rural and Remote Areas, Natural Sciences and Engineering Research Council of Canada (NSERC), 2014, $25,000
13. Rong Zheng, Software-Defined Radio Enabled Wireless Surveillance and Security. Natural Sciences and Engineering Research Council of Canada (NSERC), MRI CFI-LOF, 2014, $212,415
14. Rong Zheng, Discovery: A Sequential Learning Framework for Resource Management in Wireless Networks, Natural Sciences and Engineering Research Council of Canada (NSERC), 05/2013 – 04/2018, $180,000
15. Rong Zheng, NeTS-NEDG: Toward Service Predictability under Uncertain Resource Availability in 802.11 Like Networks, US National Science Foundation (NSF), 2009 – 2011, USD $200,000
16. Rong Zheng, Gangbin Song, Zhi Ding, CCSS-CPS: Collaborative: If the Bridges Can Talk: Toward Autonomous Structure Health Monitoring for Civil Infrastructure (**PI**), US National Science Foundation (NSF), 2011 – 2013, USD $250,000
17. Rong Zheng, Zhu Han, Cliff Dasco, NeTS: Small: Toward Wireless Co-existence For Safety-critical Applications (**PI**), US National Science Foundation (NSF), 2011 – 2013, USD$300,000
18. Rong Zheng, CAREER: Data Dissemination in Multihop Wireless Networks: Theory and System Design, US National Science Foundation (NSF), 01/2006 – 01/2011, USD$400,000
19. Jaspal Subhlok, Rong Zheng, Edgar Gabriel, CSR-PSCE, SM: Collaborative Research: VOLPEX: A Framework for Parallel Execution on Volatile Nodes, US National Science Foundation (NSF), 09/2008 – 08/2010, USD$280,000
20. Stephen Huang, Ernst Leiss, Ioannis Kakadiaris, Yuriy Fofanov, Rong Zheng, GAANN: Doctoral Training in Computer and Computational Sciences, US Department of Education (P200A070377), 8/15/07-8/14/10, USD$383,643
21. Shishir Sha, Rong Zheng, Edgar Gabriel, Marc Garbey, DURIP: Smart Camera Network Instrumentation for Collaborative Mission Research, US Army Research Office, 07/2008 – 07/2009, USD$140,000

LIFETIME PUBLICATIONS

	Book	Book Chapter	Journal	Conference
Published	1	2	64	91
Accepted			0	0

Google Scholar: citations > 8000, h-index 44

Peer Reviewed

Books

1. Rong Zheng, Cunqing Hua,"Sequential Learning and Decision Making in Wireless Resource Management", Springer, 2016

Contribution to Books

1. Rong Zheng and Cunqing Hua, "Sensor techniques and network protocols for smart grid", Cambridge University Press, 2010
2. Rong Zheng and Jennifer C. Hou, "Power Management and Power Control in Wireless Networks", Ad Hoc and Sensor Networks, Yi Pan and Yang Xiao (Eds), Nova Science Publishers, 2006

Journal Articles

1. Rodrigues, Isabel B and Ching, Priscilla and Kalra, Mayank and Zheng, Rong and Rabinovich, Alexander and Papaioannou, Alexandra and Leckie, Carolyn and Kobsar, Dylan and Fang, Qiyin and Bray, Steven and others. Exploring the perspectives of older adults who are pre-frail and frail to identify interventions to reduce sedentary behaviour and improve mobility: a thematic content analysis. BMC Public Health. 24(1): 1582, 2024
2. C. He, S. Cheng, R. Zheng and J. Liu, "Delay-and-Sum Beamforming-Based Spatial Mapping for Multisource Sound Localization," in *IEEE Internet of Things Journal*, vol. 11, no. 9, pp. 16048-16060, 1 May1, 2024
3. Y. Hao, X. Lou, B. Wang and R. Zheng, "CROMOSim: A Deep Learning-Based Cross-Modality Inertial Measurement Simulator," in IEEE Transactions on Mobile Computing, vol. 23, no. 1, pp. 302-312, Jan. 2024
4. El-Mohandes AM, Zandi Navid, Zheng R. DeepBSL: 3D Personalized Deep Binaural Sound Localization on Earable Devices. IEEE Internet of Things Journal. vol. 10, no. 21, pp. 19004-19013, 1 Nov.1, 2023
5. W. Zhao, C. Wen, Q. Yuan and R. Zheng, "Efficient Rotating Synthetic Aperture Radar Imaging via Robust Sparse Array Synthesis," in IEEE Transactions on Geoscience and Remote Sensing, vol. 61, pp. 1-12, 2023
3. R. Xu, S. Razavi and R. Zheng, "Edge Video Analytics: A Survey on Applications, Systems and Enabling Techniques," in IEEE Communications Surveys & Tutorials, vol. 25, no. 4, pp. 2951-2982, 2023,
4. Bo Zhang, Boyu Jiang, Rong Zheng, Xiaoping Zhang, Jun Li, and Qiang Xu "Pi-ViMo: Physiology-inspired Robust Vital Sign Monitoring using mmWave Radars." ACM Transactions on Internet of Things, Vol 4, Issue 2, 2023.
6. Chao Cai, Henglin Pu, Menglan Hu, Rong Zheng, Jun Luo, Acoustic Software Defined Platform: A Versatile Sensing and General Benchmarking Platform, IEEE Transactions on Mobile Computing, 22 (1), pp. 647-660, 2023
5. Gravesande, Janelle, Lisandra Almeida de Oliveira, Natasha Malik, Brenda Vrkljan, Rong Zheng, Paula M. Gardner, and Lisa C. Carlesso. "Feasibility, Usability, and Acceptability of Online Mind-Body Exercise Programs for Older Adults: A Scoping Review." Journal of integrative and complementary medicine, March, 2023
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79. Amit Pendharkar, Claudio Olmi, Rong Zheng and Gangbing Song, "High Rate Sensing in Wireless Civil Structure monitoring", Proceedings of the 11th Biennial ASCE Aerospace Division International Conference – Intelligent Sensors and Actuators Track, Los Angeles, CA, 2008 (invited paper)
80. Rong Zheng, Richard Barton, "Toward Optimal Data Aggregation in Random Wireless Sensor Networks",

Proceedings of the 26th Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM), Anchorage, AK, 2007

81. Sumit Gupta and Rong Zheng and Albert Cheng, "ANDES: an Anomaly Detection System for Wireless Sensor Networks", Proceedings of the Fourth IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), Pisa, Italy, 2007
82. Muqsith A Mohammad, Rong Zheng, Richard Barton, "Location Sensing Using Minmax Robust Thin-splate Spline", Proceedings of the Forty-Fourth Annual Allerton Conference on Communication, Control, and Computing, Monticello, IL, 2006
83. Rong Zheng, "Information Dissemination in Power-constrained Wireless Networks", Proceedings of the 25th Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM), Barcelona, Spain, 2006
84. Richard Barton and Rong Zheng, "Cooperative Time-Reversal Communication is Order-Optimal for Data Aggregation in Wireless Sensor Networks", Proceedings of IEEE International Symposium on Information Theory (ISIT), Seattle, WA, 2006
85. R.J.Barton and Rong Zheng,"Order-Optimal Data Aggregation in Wireless Sensor Networks Using Cooperative Time-Reversal Communication," Proceedings of the 40th Annual Conference on Information Sciences and Systems (CISS), Princeton, NJ, 2006
86. Rong Zheng, Jennifer Hou and Lui Sha, "On Time-out Driven Power Management Policies for Wireless Networks", Proceedings of the IEEE Global Communications Conference (GlobeCom), Dallas, TX, 2004
87. Qixin Wang, Rong Zheng, Ajay S. Tirumala and Lui Sha, "Lightning: A Fast and Light-Weight Acoustic Location Protocol Using Low-End Wireless Micro-Sensors", Proceedings of 25th IEEE International Real-Time Systems Symposium (RTSS), Lisbon, Portugal, 2004 (Nominated for best paper award)
88. Rong Zheng, Jennifer Hou and Lui Sha. "Asynchronous Wakeup for Ad Hoc Networks", Proceedings of the 4th ACM international symposium on mobile ad hoc networking and computing (MobiHoc), Minneapolis, MA, June 2003
89. Rong Zheng and Robin Kravets. "On-demand Power Management for Ad Hoc Networks", Proceedings of the 22nd Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM), San Francisco, CA, April 2003
90. Qixin Wang, Weipeng Chen, Rong Zheng, Kihwal Lee and Lui Sha. "Acoustic Target Tracking Using Tiny Wireless Sensor Devices", Proceedings of Information Processing in Sensor Networks (IPSN), Palo Alto, CA, April 2003
91. Wei Lin, Rong Zheng and Jennifer Hou. "How to Make Assured Service More Assured", Proceedings of the 8th IEEE International Conference on Network Protocols (ICNP), Toronto, Canada, 1999

PRESENTATIONS

Keynotes/Plenary Talk

2023 "Non-contact RF sensing for health monitoring", WeSpark Health Research Conference, 2023
2013 "Some Advancements in Wireless Structural Health Monitoring", IEEE Sensor Application Symposiums, 2013, Houston, Tx, USA
2011 "Toward Autonomous Structure Health Monitoring for Intelligent Transportation", The 6th International Symposium on Embedded Technology (ISET), Jeju, South Korea

Invited Talks/Lectures (Since 2013)

2024 "Human Centric Sensing: Applications, Techniques and Challenges", Nanyang Technological University, National University of Singapore, Queen's University, Chinese University of Hong Kong (Shenzhen), 2024
2021 Toward Smart Mobility for the Aging Population, Human Machine Interaction Workshop
2020 Informative Path Planning for Mobile Spatial Sensing, Zhejiang University
2020 Leveraging MIRA/LCMA funds, MIRA & Labarge Research Showcase

2019 Autonomous Monitoring of Data Center Operations. International Workshop on Intelligent Networking and Communication Systems, Shenzhen, China
2019 Informative Path Planning for Mobile Spatial Sensing. International Summit on Embedded IoT, Shenzhen, China
2018 Machine Learning and Big Data: Where do they fit in CPS. IPSN'18 Panel, Porto, Portugal
2017 "Sensing and Data Acquisition in the Big Data Era: What, Where and When", The International Workshop on Frontiers of Cyber-Physical Systems and Internet of Things (IWFCI), Nanjing, China
2017 "Sensing and Data Acquisition in the Big Data Era: What, Where and When", Michigan State University, USA
2017 "Sensing and Data Acquisition in the Big Data Era: What, Where and When", Western Ontario University, Canada
2017 "The Holy Grail of Sub-meter Indoor Localization with Low-cost Infrastructure", Nanjing University, China
2017 "The Holy Grail of Sub-meter Indoor Localization with Low-cost Infrastructure", Wuhan University, China
2017 "The Holy Grail of Sub-meter Indoor Localization with Low-cost Infrastructure", Beijing Jiaotong University, China
2017 "The Holy Grail of Sub-meter Indoor Localization with Low-cost Infrastructure", Chinese University of Geoscience (Wuhan), China
2017 "Demystifying Machine Learning (for Engineers ...)", CIRC Lunch & Learn
2016 Summer Course on Mobile Data Analytics, Beijing Jiaotong University, China
2016 "Toward Personalized Thermal Environments", Microsoft Research, Redmond, WA, USA
2015 MacQuest, DemoCamp, Hamilton, ON
2015 "Sequential Learning and Decision Making in Wireless Resource Management", Beijing Jiaotong University, China
2015 "Location, Location, Location", University of Houston, USA
2014 "Recent Trends in Wireless Networking and Communications", Panel presentation, International Conference on Wireless Algorithms, Systems, and Applications, Harbin, China
2014 "Opportunities (and Challenges) of IoT in Environmental Monitoring & Energy Management", MacWater Workshop, McMaster
2014 "The Holy Grail of Sub-meter Indoor Localization with Low-cost Infrastructure", Tsinghua University, China
2014 "Sequential Learning and Decision Making in Wireless Resource Management", Shanghai Jiaotong Univ., China
2014 "SuSHI: A Smart Sensor System for Thermal Inference", University of Houston, USA
2014 "The Tale of Three Sensors", Xerox, Canada
2013 "Toward Autonomous Structure Health Monitoring", University of Buffalo, USA
2013 "Binary Independent Component Analysis with OR Mixtures and Its Applications", Syracuse University, USA
2013 "Online Inference of Recurring and New Indoor Places of Mobile Users", University of Waterloo, Canada
2013 "Pervasive Computing – Challenges and Opportunities", IEEE Annual Computer Comm. Workshop, Niagara, NY, USA

Patent

2021 Method and system for determining individualized head related transfer functions (provisional)

CONTRIBUTION TO SOFTWARE RELEASE

2016, 2017 MacQuest, Apple App Store, https://itunes.apple.com/ca/app/macquest/id1099180345?mt=8
2015, 2018 MacQuest, Google Play, https://play.google.com/store/apps/details?id=com.mcmaster.wiser.idyll&hl=en
2004 JavaSim, https://sites.google.com/site/jsimofficial/

ADMINISTRATIVE RESPONSIBILITIES

Department

2024 –	Tenue and Promotion Committee
2024 –	CS Undergraduate curriculum committee
2020 –	Member, Faculty search committee
2017 – 2019	Organizer: 1st CAS Graduate Poster and Demo Competition
2016 – 2021	Associate Chair Graduate Study and Research
2016 – 2020	Member, Graduate Curriculum and Policy Committee
2020 – present	Member, Faculty Search Committee
2016 – 2021	Member, Awards Committee
2016 – 2021	Chair, Graduate Curriculum and Policy Committee
2016 – 2021	Chair, Research excellence committee
2016	Member, Department Chair Search Committee
2014 – 2016	Software Engineering Undergraduate Advisor
2014 - 2016	Member, Tenure, Promotions, and Consulting Committee
2014 – 2016	Member, PhD Comprehensive Exam Committee

Faculty

2021	Dean's representative on SEPT Search Committee
2021 – 2024	Tenure and Promotion Committee
2020 – 2021	Ad Hoc Committee on CRC search
2016 – present	Member, Faculty Engr. BTech Advisory Committee
2014 – 2015	Member, Faculty Engineering 1 Operating Committee
2014 – 2016	eHealth Recruitment, Admissions, Curriculum and Internship

University

2016 – 2018	Member, MacData Steering Committee
2017 – 2018	Member, Wireless Working Committee (UTS)