

CURRICULUM VITAE

PROFILE

NAME	Yao GE
BRITHDAY	12 th December 1991
NATIONALITY	Chinese
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ADDRESS	Continental-NTU Corporate Lab, Nanyang Technological University, Research Techno Plaza, 50 Nanyang Drive, Border-X Block, Level #03-01. Singapore 637553.



BIOGRAPHY

Yao GE received the Ph.D. degree in Electronic Engineering from The Chinese University of Hong Kong (CUHK), Shatin, Hong Kong, in 2021, and the M.Eng. degree (research) in Communication and Information System and the B.Eng. degree in Electronics and Information Engineering from Northwestern Polytechnical University (NPU), Xi'an, China, in 2016 and 2013, respectively. He is currently a Research Fellow with Continental-NTU Corporate Lab, Nanyang Technological University (NTU), Singapore. From October 2015 to March 2016, he was a Visiting Scholar with the Department of Electrical and Computer Systems Engineering, Monash University, Melbourne, VIC, Australia. From April 2016 to August 2016, he was a Visiting Scholar with the Department of Computer, Electrical and Mathematical Science and Engineering, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia. From May 2019 to December 2019, he was a Visiting Scholar with the Department of Electrical and Computer Engineering, University of California at Davis (UC Davis), Davis, CA, USA. His current research interests include wireless communications and system design, the Internet of Things, cognitive radio networks, automotive vehicle signal processing and communications, integrated sensing and communication, wireless network security, statistical signal processing, optimization, and game theory. He has been actively involved in organizing and chairing sessions and has served as a TPC member in numerous international conferences. He received the Best Paper Award from the International Conference on Wireless Communications and Signal Processing (WCSP) 2022. He is a Founding Member of the IEEE ComSoc Special Interest Group (SIG) on OTFS and has served as the Co-Chair for the IEEE/CIC ICC 2022 Workshop on OTFS. He is also a Youth Editorial Board Member of the Journal of Information and Intelligence.

WORKING EXPERIENCE

- **Nanyang Technological University (NTU) (Singapore)**

11/2021-Present Research Fellow in Continental-NTU Corporate Lab
 Research Interests: Signal processing in high-mobility wireless communications

EDUCATION EXPERIENCE

- **The Chinese University of Hong Kong (CUHK) (Shatin, Hong Kong)**

8/2016-11/2021 Doctor of Philosophy in Electronic Engineering, GPA: 3.629/4
 Research Interests: Signal Processing in Wireless Communications and Network Economics

- **5/2019-12/2019** University of California at Davis (UC Davis) (Public Ivies of American) (Davis, American)

- **Northwestern Polytechnical University (NPU) (Project 985 and Project 211) (Xi'an, China)**

9/2013-8/2016 Master of Communication and Information System, GPA: 91.3/100, Ranking: 2/145

- **10/2015-3/2016** Monash University (Australia's prestigious Group of Eight Universities) (Melbourne, Australia)

- **4/2016-8/2016** King Abdullah University of Science and Technology (Middle East MIT) (Thuwal, Saudi Arabia)

9/2009-7/ 2013 ● **Northwestern Polytechnical University (NPU) (Project 985 and Project 211) (Xi'an, China)**

Bachelor of Electronics and Information Engineering, GPA: 88.8/100, Ranking: 1/67

Master Thesis Channel Estimation in Wireless Communication and Relay Networks (**Outstanding graduation thesis**)

Bachelor Thesis Research on Techniques of Anti-Multipath-Fading in Wireless Communications, 96.7/100(**Outstanding**)

graduation thesis, Ranking: 1/67)

PERSONAL SKILLS

Programming	C, C++, Visual C++, Basic, Visual Basic, Matlab, Python, Latex, Multism, Altium Designer (I have achieved the Grade 2 of C Language Certificate in National Computer Rank Examinations)
Languages	Mandarin Chinese, English, A little Cantonese and Arabic

HONORS & AWARDS

- 11/2022 ➤ **Best Paper Award, the 14th International Conference on WCSP, IEEE Communication Society.**
- 4/2020 ➤ **Reaching Out Award of CUHK**
- 5/2019 ➤ **Overseas Research Attachment Programme of CUHK**
- 11/2018 ➤ **CUHK Research Postgraduate Student Grants for Overseas Academic Activities**
- 8/2016 ➤ **Postgraduate Studentship of The Chinese University of Hong Kong**
- 4/2016 ➤ **Visiting Student Research Scholarship of King Abdullah University of Science and Technology**
- 4/2016 ➤ **Outstanding Master Thesis Award of NPU**
- 7/2015 ➤ **Visiting Student Scholarship of Monash University**
- 9/2014 ➤ **National Scholarship**
- 9/2014 ➤ **Excellent Student Award and the First-Class Postgraduate Scholarship of NPU**
- 3/2014 ➤ **Advanced Individual Social Works in School of Marine Science and Technology, NPU**
- 9/2013 ➤ **Excellent Student Award and the First-Class Postgraduate Scholarship of NPU**
- 6/2013 ➤ **Outstanding Bachelor Thesis Award in NPU**
- 11/2012 ➤ **Second Prize of Marine Aircraft Design and Production Competition of NPU**
- 11/2012 ➤ **National Scholarship**
- 11/2012 ➤ **Excellent Student Award and the First-Class Undergraduate Scholarship of NPU**
- 11/2012 ➤ **Second Prize of Signal and System Experiment Skill and Competition of NPU**
- 6/2012 ➤ **First Prize of Electronic Technology Experiment Skill and Competition of NPU**
- 6/2012 ➤ **First Prize of Microcomputer Principle Competition of NPU**
- 6/2012 ➤ **Third Prize of Mathematical Modeling Competition of NPU**
- 6/2012 ➤ **Second Prize of C Language Experiment Skill and Competition of NPU**
- 11/2011 ➤ **"77-20" Individual Scholarship**
- 11/2011 ➤ **Excellent Student Award and the First-Class Undergraduate Scholarship of NPU**
- 6/2011 ➤ **First Prize of Circuit Principle Experiment Skill and Competition of NPU**
- 11/2010 ➤ **Excellent Student Award in School of Marine Science and Technology, NPU**

SELECTED PUBLICATIONS & PROCEEDINGS

- Q. Deng, **Y. Ge** and Z. Ding, "A Unifying View of OTFS and Its Many Variants," IEEE Commun. Surv. Tutor., 2025.
- M. Li, S. Zhang, **Y. Ge** and C. Yuen, "STAR-RIS Aided Dynamic Scatterers Tracking for Integrated Sensing and Communications," IEEE Trans. Veh. Tech., doi: 10.1109/TVT.2025.3527753, 2025.
- **Y. Ge**, L. Meng, D. González G., M. Wen, Y. L. Guan and P. Fan, "Linear Precoding Design for OTFS Systems in Time/Frequency Selective Fading Channels," IEEE Wireless Commun. Lett., doi: 10.1109/LWC.2024.3524459, 2025.
- H. Yuan, Y. Xu, X. Guo, **Y. Ge**, T. Ma, H. Li, D. He and W. Zhang, "PAPR Reduction with Pre-chirp Selection for Affine Frequency Division Multiplexing," IEEE Wireless Commun. Lett., doi: 10.1109/LWC.2024.3521464, 2025.
- J. Liu, Y. L. Guan, **Y. Ge** and B. Clerckx, "Power Allocation for High Mobility OTFS-RSMA System with Path-selective One-tap Receiver," IEEE Wireless Commun. Lett., doi: 10.1109/LWC.2024.3519376, 2025.
- Y. Tao, M. Wen, **Y. Ge**, J. Li, E. Basar and N. Al-Dhahir, "Affine Frequency Division Multiplexing with Index Modulation: Full Diversity Condition, Performance Analysis, and Low-Complexity Detection," IEEE J. Sel. Areas Commun., doi: 10.1109/JSAC.2025.3531561, 2025.
- Z. Yang, **Y. Ge**, Y. Zhao, Y. Fang and Y. L. Guan, "Protograph LDPC Code and Shaped Index Modulation Design for Multi-Mode OAM Systems," IEEE Trans. Commun., vol. 72, no. 8, pp. 5162-5178, Aug. 2024.

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- M. Li, S. Zhang, **Y. Ge**, Z. Li, F. Gao, and P. Fan, "STAR-RIS Aided Integrated Sensing and Communication Over High Mobility Scenario," *IEEE Trans. Commun.*, vol. 72, no. 8, pp. 4788-4802, Aug. 2024.
- Z. Ma, F. Zhang, Z. Nan, and **Y. Ge**, "Intention action anticipation model with guide-feedback loop mechanism," *Knowledge-Based Systems*, 2024, 292: 111626.
- Y. Chi, L. Liu, **Y. Ge**, X. Chen, Y. Li and Z. Zhang, "Interleave Frequency Division Multiplexing," *IEEE Wireless Commun. Lett.*, vol. 13, no. 7, pp. 1963-1967, Jul. 2024.
- W. Zhuang, Y. Mao, H. He, L. Xie, S. Song, **Y. Ge** and Z. Ding, "Approximate Message Passing-Enhanced Graph Neural Network for OTFS Data Detection," *IEEE Wireless Commun. Lett.*, vol. 13, no. 7, pp. 1913-1917, Jul. 2024.
- X. Li, H. Wang, **Y. Ge**, X. Shen, and J. Zhao, "Message Feedback Interference Cancellation Aided UAMP Iterative Detector for OTFS Systems," *IEEE Wireless Commun. Lett.*, vol. 13, no. 4, pp. 924-928, Apr. 2024.
- L. Jiao, **Y. Ge**, K. Zeng, and B. Hilburn, "Location Privacy and Spectrum Efficiency Enhancement in Spectrum Sharing Systems," *IEEE Trans. on Cogn. Commun. Netw.*, vol. 9, no. 6, pp. 1472-1488, Dec. 2023.
- Q. Deng, **Y. Ge**, and Z. Ding, "Jamming Suppression Via Resource Hopping in High-Mobility OTFS-SCMA Systems," *IEEE Wireless Commun. Lett.*, vol. 12, no. 12, pp. 2138-2142, Dec. 2023.
- M. Qian, F. Ji, **Y. Ge**, M. Wen, X. Cheng and H. Vincent Poor, "Block-Wise Index Modulation and Receiver Design for High-Mobility OTFS Communications," *IEEE Trans. Commun.*, vol. 71, no. 10, pp. 5726-5739, Oct. 2023.
- **Y. Ge**, Q. Deng, D. González G., Y. L. Guan and Z. Ding, "OTFS Signaling for SCMA With Coordinated Multi-Point Vehicle Communications," *IEEE Trans. Veh. Tech.*, vol. 72, no. 7, pp. 9044-9057, Jul. 2023.
- M. Li, S. Zhang, **Y. Ge**, F. Gao, and P. Fan, "Joint channel estimation and data detection for hybrid RIS aided millimeter wave OTFS systems," *IEEE Trans. Commun.*, vol. 70, no. 10, pp. 6832-6848, Oct. 2022.
- **Y. Ge** and P. C. Ching, "Energy efficiency for proactive eavesdropping in cooperative cognitive radio networks," *IEEE Internet Things J.*, vol. 9, no. 15, pp. 13443-13457, Aug. 2022.
- D. Mo, W. K. Wong, X. Liu, and **Y. Ge**, "Concentrated Hashing with Neighborhood Embedding for Image Retrieval and Classification," *Int. J. Mach. Learn. & Cyber.*, vol. 13, no. 6, pp. 1571-1587, Jan. 2022.
- **Y. Ge**, Q. Deng, P. C. Ching, and Z. Ding, "Receiver Design for OTFS with a Fractionally Spaced Sampling Approach," *IEEE Trans. Wireless Commun.*, vol. 20, no. 7, pp. 4072-4086, Jul. 2021.
- **Y. Ge**, Q. Deng, P. C. Ching, and Z. Ding, "OTFS Signaling for Uplink NOMA of Heterogeneous Mobility Users," *IEEE Trans. Commun.*, vol. 69, no. 5, pp. 3147-3161, May 2021.
- Z. Jiang, X. H. Shen, **Y. Ge**, and H. Y. Wang, "Approximate Gibbs Algorithm for Blind Data Detection in Two-way Relay Networks," *IET Communications*, vol. 11, no. 8, pp. 1230-1240, May 2017.
- M. Behzad, M. Abdullah, M. T. Hassan, **Y. Ge**, and M. A. Khan, "Performance Optimization in IoT-Based Next-Generation Wireless Sensor Networks," *Transactions on Computational Collective Intelligence*, 2019.
- Z. Jiang, X. H. Shen, **Y. Ge**, R. Q. Zhao, and H. Y. Wang, "Joint Time-Frequency Synchronization and Channel Estimation in Two-Way Relay Networks," *J. Franklin Inst.*, vol. 351, no. 11, pp. 5034-5054, Nov. 2014.
- Y. Zhao, Y. L. Guan, C. Yuen, X. Liu, A. M. Ismail and **Y. Ge**, "Advanced Artificial Doppler Shift Manipulation with Rotational Vortex Beams in Space-Time Digital-Coding RIS System: A Practical Approach," 2024 IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS), Singapore, 2024.
- Y. Tao, M. Wen, **Y. Ge**, T. Mao, L. Xiao and J. Li, "DAFT-Spread Affine Frequency Division Multiple Access for Downlink Transmission," in *Proceedings of IEEE Globecom 2024*.
- Y. Tao, M. Wen, **Y. Ge** and J. Li, "Affine Frequency Division Multiplexing with Index Modulation," in *Proceedings of IEEE WCNC 2024*.
- M. Li, S. Zhang, **Y. Ge**, Z. Li, F. Gao, G. Han and P. Fan, "Integrated Sensing and Communication with STAR-RIS Over High Mobility Scenario," in *Proceedings of IEEE Globecom 2023*.
- J. Liu, Y. L. Guan, **Y. Ge**, L. Yin and B. Clerckx, "Energy Efficiency of Rate-Splitting Multiple Access for Multibeam Satellite Communications," in *Proceedings of IEEE VTC2023-Spring*.
- **Y. Ge**, L. Liu, S. Huang, D. Gonzalez G., Y. L. Guan and Z. Ding, "Low-Complexity Memory AMP Detector for High-Mobility MIMO-OTFS SCMA Systems," in *Proceedings of IEEE ICC Workshop OTFS-DDMC-6G 2023*.

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- Z. Yang, Y. Zhao, **Y. Ge**, Y. Fang and Y. L. Guan, "Protograph-Based LDPC-Coded Orbital Angular Momentum Systems with Index Modulation", in Proceedings of IEEE ICC Workshop OAMT 2023.
- Y. Zhao, **Y. Ge**, Z. Yang, G. Ju, L. Ma, Y. Lu, Y. L. Guan, "OAM-based Reconfigurable Doppler Shifts Enable PAPR Reduction for Multi-carrier Doppler Diversity," 2022 Asia-Pacific Microwave Conference (APMC), Yokohama, Japan, 2022, pp. 485-487.
- Y. Zhao, G. Ju, Z. Yang, **Y. Ge**, Y. Lu and Y. L. Guan, "Orbital Angular Momentum Transmission Based on Satellite Formation Relay in Space Communications," 2022 Asia-Pacific Microwave Conference (APMC), Yokohama, Japan, 2022, pp. 913-915.
- M. Li, S. Zhang, **Y. Ge**, F. Gao and P. Fan, "A Novel Transmission Strategy for Hybrid RIS Aided Millimeter Wave OTFS Systems," 2022 14th International Conference on Wireless Communications and Signal Processing (WCSP), Nanjing, China, 2022, pp. 1058-1063.
- M. Qian, **Y. Ge**, M. Wen and F. Ji, "A Novel Block-Wise Index Modulation Scheme for High-Mobility OTFS Communications," 2022 IEEE/CIC International Conference on Communications in China (ICCC Workshops), Sanshui, Foshan, China, 2022.
- X. Li, H. Wang, X. Shen, **Y. Ge** and Y. Lei, "Delay-Doppler Reversal for OTFS System in Doubly-selective Fading Channels," 2022 IEEE/CIC International Conference on Communications in China (ICCC Workshops), Sanshui, Foshan, China, 2022.
- L. Meng, Y. L. Guan, **Y. Ge** and Z. Liu, "A Novel Design of Flag Sequences for Low-Complexity Delay-Doppler Estimation," 2022 10th International Workshop on Signal Design and Its Applications in Communications (IWSDA), Colchester, United Kingdom, 2022.
- **Y. Ge** and P. C. Ching, "Spectrum Sharing and Energy Cooperation in Wireless Powered Cognitive Radio Networks," in Proc. IEEE VTC-Fall, 2019.
- **Y. Ge** and P. C. Ching, "Robust Secrecy Design for MIMO SWIPT with Artificial Noise and Full-Duplex Receiver Jamming," in Proc. IEEE Glob. Conf. Signal Inf. Process. (GlobalSIP), Anaheim, California, USA, Dec. 2018.
- T. Zhang, X. W. Wu, Y. F. Xu, **Y. Ge**, and P. C. Ching, "Three-User MIMO Broadcast Channel with Delayed CSIT: A Higher Achievable DoF," *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2018.
- M. Behzad, M. Abdullah, M. T. Hassan, **Y. Ge**, and M. A. Khan, "Layer-Adaptive Communication and Collaborative Transformed-Domain Representations to Optimize Performance in Next-Generation WSNs," *IEEE 32nd International Conference on Advanced Information Networking and Applications (AINA)*, 2018.
- M. Behzad and **Y. Ge**, "Performance Optimization in Wireless Sensor Networks: A Novel Collaborative Compressed Sensing Approach," *IEEE 31st International Conference on Advanced Information Networking and Applications (AINA)*, 2017.
- Y. R. Ma, Z. Jiang, X. Wang, **Y. Ge**, and X. H. Shen, "Robustness Verification of an OFDM System for Shallow Water Communication," *IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC)*, 2016.
- **Y. Ge**, Z. Jiang, Y. X. Zhao, and X. H. Shen, "MCMC-based Channel Estimation for OFDM Systems in Dispersive Time-Varying Channels," *IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC)*, 2015.
- H. T. Dong, H. Y. Wang, **Y. Ge**, Y. Z. Zhang, and H. Y. Yao, "Fuzzy Clustering Based Source Direction Estimation Method Using Acoustic Energy Measurement with UWSN," *OCEANS 2015-MTS/IEEE Washington*. IEEE, 2015.

Other under review papers:

- L. Meng, Y. L. Guan, **Y. Ge** and Z. Liu, "Flag Sequence Set Design for Low-Complexity Delay-Doppler Estimation," *IEEE Trans. Veh. Tech.*, major revision.
- Y. Chi, Z. Peng, L. Liu, Y. Li, **Y. Ge** and C. Yuen, "Achievable Rate and Coding Principle for MIMO Multicarrier Systems with Cross-Domain MAMP Receiver Over Doubly Selective Channels," *IEEE Trans. Wireless Commun.*, under review.
- Q. Zhang, Z. Dong, Y. Zhao, **Y. Ge**, Y. L. Guan, J. Liu and C. Yuen, "Multi-Resolution Codebook Design and Multi-User Interference Management for Discrete XL-RIS-Aided Near-Field MIMO Systems," *IEEE Trans. Wireless Commun.*, under review.
- X. Li, H. Wang, **Y. Ge**, X. Shen, Y. L. Guan, M. Wen and C. Yuen, "Affine Frequency Division Multiplexing Over Wideband Doubly-Dispersive Channels With Time-Scaling Effects," *IEEE Trans. Wireless Commun.*, major revision.

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- L. Meng, Y. L. Guan, **Y. Ge**, Z. Liu and P. Fan, "Generalized Arlery-Tan-Rabaste-Levenshtein Lower Bounds on Ambiguity Function and Their Asymptotic Achievability," IEEE Trans. Inf. Theory, major revision.
- M. Duan, P. Zhang, S. Zhang, **Y. Ge**, O. A. Dobre and C. Yuen, "Channel Estimation and Hybrid Precoding for Massive MIMO-OTFS System With Doubly Squint," IEEE Trans. Commun., major revision.
- Y. Luo, Y. L. Guan, **Y. Ge**, D. González G. and C. Yuen, "A Novel Angle-Delay-Doppler Estimation Scheme for AFDM-ISAC System in Mixed Near-field and Far-field Scenarios," IEEE Internet Things J., major revision.
- Y. Tao, M. Wen, **Y. Ge**, T. Mao, Y. Tang and A. Doosti-Aref, "Affine Frequency Division Multiple Access Based on DAFT Spreading for Next-Generation Wireless Networks," IEEE Trans. Wireless Commun., under review.

PATENTS

- **Y. Ge**, Y. L. Guan, and D. González G., "METHOD OF DETECTING OTFS SCMA SIGNALS AND RECEIVER IMPLEMENTING THE METHOD," *German patent 102023200370.8*.
- **Y. Ge**, Y. L. Guan, and D. González G., "Method Of Transmitting Binary Data Sequences In An OTFS-Based SCMA Communication System With Coordinated Multipoint, And Transmitter And Receiver Implementing The Method," *German patent 10 2022 117 815.3*.

EDUCATIONAL INTERSHIPS

- 8/2020 ➤ 2020 ComSoc Summer School, IEEE ComSoc, UK and Ireland Virtual Event
- 7/2019 ➤ 2019 ComSoc Summer School, IEEE ComSoc, Austin, USA
- 12/2018 ➤ 2018 International Doctoral Forum, Graduate School, Tsinghua University
- 8/2018 ➤ 2018 International Youth Conference, Shenzhen, China
- 6/2018 ➤ 2018 ComSoc Summer School on Fog Computing, IEEE ComSoc, Shanghai, China
- 5/2018 ➤ The 10th Nanshan Forum for PhD Candidates from Shenzhen, Hong Kong, Macao, and Taiwan
- 9/2017 ➤ 2017 Postgraduate Academic Forum SUN YAT-SEN University, Guangzhou, China
- 4/2017 ➤ The 9th Nanshan Forum for PhD Candidates from Shenzhen, Hong Kong, Macao, and Taiwan
- 4/2017 ➤ 2017 The Conference on International Exchange of Professionals, Shenzhen, China
- 5/2016 ➤ MATLAB Workshop Deep Learning and GPU, KAUST, Saudi Arabia
- 5/2016 ➤ 2016 KAUST UQ School on Numerical Methods for Direct and Inverse Problems, Saudi Arabia
- 4/2016 ➤ Short Course, Prof. Victor Zavala, University of Wisconsin-Madison, KAUST, Saudi Arabia
- 1/2016 ➤ Australian Communications Theory Workshop in Monash University, Australian
- 1/2016 ➤ Australian Information Theory School in Monash University, Australian
- 7/2015 ➤ Academic visiting CSIC No. 710 Institute in Yichang, China
- 7/2015 ➤ The Chinese University of Hong Kong, Hong Kong PhD Fellowship Summer Workshop
- 4-12/2014 ➤ Academic studying in outstanding graduate student class of NPU
- 7-8/2012 ➤ Academic visiting in CSIC Xi'an Dong Yi Science Technology & Industry Group Co., Ltd
- 6-7/2012 ➤ Academic visiting the national college students' summer camp in SOUTHEAST UNIVERSITY, China
- 8-9/2011 ➤ Academic visiting internship at electronic company of China in Tsingdao, China
- 4-5/2010 ➤ Metalworking internship at Engineering Practice Centre of NPU
- 9-10/2010 ➤ Electronics internship at Engineering Practice Centre of NPU

TEACHING & REVIEWING EXPERIENCE

Editorship:

- Journal of Information and Intelligence, 2024-present

Conference Organizer/Chair:

- OTFS and Its Two-dimensional Modulation Extensions for High-mobility Communications, IEEE ICC 2022, Foshan, China.

Regular Reviewer:

- IEEE Transactions on Wireless Communications (TWC)
- IEEE Transactions on Signal Processing (TSP)

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- IEEE Transactions on Communications (TCOM)
- IEEE Transactions on Vehicular Technology (TVT)
- IEEE Transactions on Information Forensics and Security (TIFS)
- IEEE Transactions on Microwave Theory and Techniques
- IEEE Transactions on Consumer Electronics
- IEEE Internet of Things Journal (IOTJ)
- IEEE Vehicular Technology Magazine (VTM)
- IEEE Wireless Communication Letters (WCL)
- IEEE Signal Processing Letters (SPL)
- IEEE Communication Letters (CL)
- EURASIP Journal on Wireless Communications and Networking
- China Communications
- Physical Communication
- IEEE Global Communications Conference (GLOBECOM)
- IEEE International Conference on Communications (ICC)
- IEEE Wireless Communications and Networking Conference (WCNC)
- IEEE/CIC International Conference on Communications in China (ICCC)
- IEEE Vehicular Technology Conference (VTC)
- International Conference on Sensor Networks and Signal Processing (SNSP)
- Bulletin of Electrical Engineering and Informatics (BEEI)

Teaching Assistant for Undergraduate Courses:

- ELEG 4503: Modern Communication Systems
- ELEG 2601: Technology, Society and Engineering Practice

Teaching Assistant for MSc Courses:

- ELEG 5743: Advanced Signal Processing for Communications
- ELEG 5759: Innovation, Technology and Management in Modern Engineering

Part-time Tutoring:

- Umistudy Tutor
- International Preparatory Course Tutor
- HighMark Tutor
- Yangmifeng Tutor
- Distinction Tutor

PROJECT EXPERIENCE

- Digital Signal Processing (DSP) Laboratory, Department of Electronic Engineering, The Chinese University of Hong Kong, Supervisor: Prof. Pak-Chung Ching, Collaborators: Prof. Wing-Kin Ma and Prof. Tan Lee
 - **Signal Processing and Resource Allocations in Energy Constrained Wireless Networks**, (2016.8-2021.11)
 - **Physical Layer Security for Wireless Networks**, (2016.8-2021.11)
- Broadband Radio Access Technologies Laboratory (BRAT-Lab), Department of Electrical and Computer Engineering, University of California at Davis, Supervisor: Prof. Zhi Ding, Collaborators: Mr. Qinwen Deng
 - **Orthogonal Time Frequency Space Modulation for High Mobility Communication Systems**, (2019.5-present)
- Department of Computer, Electrical and Mathematical Science and Engineering, King Abdullah University of Science and Technology, Supervisor: Prof. Tareq Al-Naffouri, Collaborators: Dr. Tarig Ahmed Ballal
 - **Application of Particle Filter in Computer Vision**, (2016.4-2016.8)
- Department of Electrical and Computer Systems Engineering, Monash University, Supervisor: Prof. Jamie Evans, Collaborators: Dr. Nikola Zlatanov
 - **Buffer-Aided Relaying for Wireless Powered Communications**, (2015.10-2016.4)

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● Deepwater Information Sensing Technology Laboratory, School of Marine Science and Technology, Northwestern Polytechnical University, Supervisor: Prof. Haiyan Wang, Collaborators: Prof. Xiaohong Shen and Prof. Zhe Jiang

➤ **Asynchronous Two-Way Relaying in Underwater Acoustic Channel with Hybrid Clustered Sparse/Diffuse Modeling**, supported by National Natural Science Foundation of China (2014.6-2016.3)

➤ **UUV Acoustic Two-Way Relay Cooperative Communication Method**, Research Fund for the Doctoral Program of Higher Education of China (2013.9-2015.9)