

Ph.D. Candidate, The Chinese University of Hong Kong, Shenzhen

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Education

Ph.D. Candidate, Computer and Information Engineering

The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)

GPA: 3.85/4.0

Ph.D. Student, Electrical Engineering

Aug. 2018-Aug. 2019 Virginia Tech (VT), Blackburg, VA, USA

GPA: 3.88/4.0

GPA: 88.5/100

Jan. 2020-Present

M.S., Information and Communication Engineering

Beijing Institute of Technology (BIT), Beijing

Sept. 2014 - Mar. 2017 GPA: 86.4/100

B.E., Communication Engineering (Siyuan Honor Program)

Beijing Jiaotong University (BJTU), Beijing

Sept. 2010-June 2014

Research Experiences

Channel state information (CSI) sensing and recovery in massive MIMO systems

- L. Li, X. Zeng, Y.-F. Liu, Y. Xu, and T.-H. Chang, "CSI sensing from heterogeneous user feedbacks: a constrained phase retrieval approach," accepted by IEEE Trans. Wireless Commun., 2023
- L. Li, M. Zhu, S. Xia and T.-H. Chang, "Downlink CSI recovery in massive MIMO systems by proactive sensing," IEEE Wireless Commun. Lett., 2023
- L. Li, Q. Chen, X. Zeng and T.-H. Chang, "Downlink CSI sensing from heterogeneous user feedbacks: a constrained phase retrieval approach," in IEEE SPAWC 2022

Integrated sensing and communication (ISAC)

- L. Li, T. Cai, and T.-H. Chang, "ISAC beamforming optimization for robust transmission in dynamic mmWave MIMO networks," accepted by IEEE ICASSP, 2024
- T. Cai, L. Li, and T.-H. Chang, "Sensing-assisted distributed user scheduling and beamforming in multi-cell mmWave networks," accepted by IEEE ICASSP, 2024
- . M. Zhu, L. Li, S. Xia and T.-H. Chang, "Information and sensing beamforming optimization for multi-user multi-target MIMO ISAC systems," EURASIP J. Adv. Signal Process., 2023
- M. Zhu, L. Li, S. Xia and T.-H. Chang, "Information and sensing beamforming optimization for multi-user multi-target MIMO ISAC systems," in *IEEE ICASSP*, 2023 (Top %3 Paper Recognition)

Unmanned aerial vehicle (UAV) communication

- L. Li, T.-H. Chang and S. Cai, "UAV positioning and power control for wireless two-way relaying," IEEE Trans. Wireless Commun., 2020
- L. Li, T.-H. Chang and S. Cai, "UAV positioning and power control for wireless two-way relaying," in IEEE SPAWC, 2019

Others: DoA estimation, multi-user beamforming, secure communication, SCMA, and visual light communication (VLC)

- S. Li, L. Li, B. Liu, Y. Song, M. Li, J. Ren, and W. Jiang, "High precision fast direction-of-arrival estimation method for planar array," in Space: Science & Technology (2022)
- L. Li, J. Chen, C. Li, B. Li, N. Wang and Z. Fei, "Balancing energy efficiency and user rate fairness in multicell networks," in IEEE WPMC 2016

- Ni. Wang, L. Li, J. Chen, Z. Fei and J. Kuang, "The ADMM-based beamforming design with per-antenna power constraints," in IEEE WPMC 2016
- B. Li, L. Li, D. He, J. Chen and W. Kong, "Energy efficient secure transmission in massive MIMO systems with pilot attack," in IEEE WCSP 2016
- C. Sun, L. Li, J. Chen et al., "System-level performance estimation of SCMA," in IEEE ICCS 2016
- M. Feng, Y. Zeng, K. Zhou et al., "Adaptive screen modulation schemes for mobile device employing optical camera communication," in IEEE ICUFN 2014.

Skills

- Experienced knowledge in wireless communication, signal processing, 4G-LTE, and 5G-NR.
- Familiar with air interface performance analysis, modeling and optimization.
- Academic Language: C/C++, Python, Matlab, and LATEX.

Honors and Awards

Graduate Research Conference Poster Award, Second Place, CUHK-Shenzhen	2022
National Endeavor Scholarship	2012 & 2013
 University Scholarship of BIT 	2014 & 2015
 University Scholarship of BJTU 	2012 & 2013
 Merit Student of BJTU 	2013
 Second Prize in Electronic Design Contest at BJTU 	2013
• Outstanding Award in the 4th Innovational Work Election on Electronics and Information De	sign for College

Extracurricular Activities

Students, Chinese Institute of Electronics

Graduate Teaching Assistant at CUHK-Shenzhen	May. 2020–Dec. 2023
Graduate Teaching Assistant at VT	Aug. 2017–May 2018
Graduate Teaching Assistant at BIT	May 2015
President of Class Committee, Class Siyuan 1001 (Siyuan Honor Program), BJTU	Sept. 2013-June 2014
Class Committee Member in Charge of Studies, Class Siyuan 1001, BJTU	Sept. 2012-June 2013

Language

TOEFL IBT: 104 (reading 30, listening 27, speaking 20, writing 27) GRE: 332.5 (verbal 163, quantitative 166, analytical writing 3.5)

References

Dr. Tsung-Hui Chang, Associate Professor of SSE, CUHK-Shenzhen, changtsunghui@cuhk.edu.cn

Dr. Zesong Fei, Professor of SIE, BIT, feizesong@bit.edu.cn

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