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## Academic Qualification

**Ph.D. in Computer Engineering**, University of Florida, USA, 2018.

**M.S. in Computer Science**, Xiamen University, China, 2013.

**B.S. in Computer Engineering**, Harbin Institute of Technology, China, 2010.

## Teaching Areas

Advanced Image Processing

Advanced Image Processing

## Research Areas

Wireless Communication

Radio Communication

Advanced Image Processing and Machine Learning

## Work Experience

Sept 2021 - Present: Assistant Professor, Institute of Intelligent Systems, Macau University of Science and Technology, Macau

Dec 2018 - Aug 2021: Postdoctoral Fellow, University of Florida, USA

Sept 2013 - Feb 2015: Research Assistant, State Key Laboratory of Intelligent Information Processing, Tsinghua University, Beijing, China

## Academic Publications (Selected)

- [1] J. He, H. Wang, and M. J. Neely, "Channel Estimation for RIS-Aided Wireless MIMO Systems," *IEEE Transactions on Wireless Communications*, vol. 20, no. 10, pp. 7006-7018, 2021.
- [2] J. He, H. Wang, and M. J. Neely, "Learning to Optimize RIS-Aided Wireless MIMO Systems," *IEEE Wireless Communications Letters*, vol. 10, no. 7, pp. 1380-1384, July 2021.
- [3] S. S. Gong, J. He, and T. Ma, "Rate-Delay Tradeoff for RIS-Aided Wireless MIMO Systems," *IEEE Transactions on Communications*, vol. 69, no. 10, pp. 7128-7140, 2021.
- [4] H. Wang, J. He, B. Dong, A. C. S. de Oliveira, and M. J. Neely, "Radio Communication and Machine Learning for RIS-Aided Wireless MIMO Systems," *IEEE Vehicular Technology Magazine*, vol. 15, no. 4, pp. 52-61, Dec. 2020.
- [5] S. S. Gong, C. Meng, J. He, X. Zhang, and T. Ma, "Channel Estimation for RIS-Aided Wireless MIMO Systems," *IEEE Signal Processing Letters*, vol. 28, pp. 2140-2144, 15 Jan. 2021.
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- [7] G. Wang, P. Yang, D. He, J. He, Y. Chen, Y. Xie, and S. Chen, "Deep Learning for RIS-Aided Wireless MIMO Systems," *IEEE Transactions on Wireless Communications*, vol. 20, no. 10, pp. 7006-7018, 2021.

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- [12] G. W , Y. L , a d J. He, De g f H g -Ra e LDPC C de Ba ed Ma d T e , IEEE C ca Le e , . 23, . 12, . 2146-2149, Dec. 2019.
- [13] J. He, V. Te , S. Q a , Q. X e, M. J , a d T. Ma , Pe f a ce A a f L Dec de-a d F a d f N -O g a MARC , IEEE T a . W ee C . , . 17, . 3, . 1545-1558, Ma . 2018
- [14] J. He, V. Te , S. Q a , M. J , T. Ma , Pe f a ce A a f OSTBC T a L F a d MIMO Re a Ne , IEEE C . Le . , . 21, . 8, . 1791-1794, A g. 2017.
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- [24] J. He, H. W ee c , L. K g, O. S e , M. J , La ge e ge face f g ee a e MIMO e , P c. f IEEE VTC, A e , Be g , Ma 25-28, 2020.
- [25] J. He, I. H a , M. J , T. Ma , E d -E d O age P bab A a f M S ce M -Re a S e , P c. f IEEE ICC, K a a L , Ma a a, Ma 23-27, 2016.
- [ ] J. He, I. H a , M. J , T. Ma , T a f C e a ed S ce e N -O g a

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[1] J. He, T. K , H. G a c , K. L , G. Wa g, M e e Wa e MIMO C a e T ac g S e ,  
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## A ed Pa e

- [1] R g We , K e g L , **Jiguang He**, Tae K , Bea T ac g Me d, A a a , a d  
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## P fe a S ce Me be

Me be f IEEE, TPC f VTC, WCNC, e c