

# Anzhong Hu: Curriculum Vitae

## Work address

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## Research

Massive MIMO systems, millimeter wave communication.

## Personal

Born on Aug. 11, 1986 in Anji county, Zhejiang Province, China; Male; China nationality; Married with one daughter.

## Education

- 2009-2014: Beijing University of Posts and Telecommunications (BUPT), Beijing, China  
Doctor of Engineering, in Signal and Information Processing.
- 2005-2009: Zhejiang University of Technology (ZJUT), Hangzhou, China  
Bachelor of Engineering, in Communication Engineering.

## Academic Experience

- Jan. 2020-present: Associate professor at Hangzhou Dianzi University (HDU), Hangzhou, China.
- Jun. 2019-Jun. 2020: Visiting researcher at Chalmers University of Technology (CTH), Gothenburg, Sweden.
- Jul. 2014-Dec. 2019: Lecturer at Hangzhou Dianzi University (HDU), Hangzhou, China.

## Teaching & Supervision

- 2014-present: Principle of Communication, Analog Electronics Technology, Communication Circuit, 5G Communication Technology, Experiments of Principle of Communication, Experiments of Communication Circuit, Course Design for Communication System.
- 2015-present: Supervised 25 undergraduate theses.
- 2017-present: 3 currently supervised master students

## Selected Funding

- Investigation of channel estimation in mmWave massive MIMO systems with hybrid processing, Zhejiang Provincial Natural Science Foundation, 2020-2022, 90 thousand RMB, Principal investigator
- Investigation of three dimensional beamforming in massive MIMO systems, Zhejiang Provincial Natural Science Foundation, 2016-2018, 50 thousand RMB, Principal investigator.

- Investigation of transmission optimization theory and technology in massive MIMO systems, National Natural Science Foundation of China, 2017-2019, 190 thousand RMB, Principal investigator.

## Selected Publications

### Overview

Since 2013, Dr. Anzhong Hu has published 12 journal papers, 11 conference papers, and received over 200 citations according to [Google Scholar](#).

- A. Hu, Pilot design and allocation for multi-cell massive MIMO systems with two-tier receiving, *IEEE Transactions on Vehicular Technology*, vol. 69, no. 7, pp. 7443-7557, Jul. 2020.
- A. Hu and S. Yang, Spatial overlapping index based joint beam selection for millimeter-wave multiuser MIMO systems, *Signal Processing*, vol. 167, pp. 1-10, Sep. 2019.
- A. Hu, User scheduling for capacity-Jain's fairness tradeoff in millimeter-wave MIMO systems, *Signal Processing*, vol. 158, pp. 141-149, May 2019.
- A. Hu, Antenna tilt adaptation for multi-cell massive MIMO systems, *IEEE Communications Letters*, vol. 21, no. 11, pp. 2436-2439, Nov. 2017.
- A. Hu, T. Lv, H. Gao, Z. Zhang, and S. Yang, An ESPRIT-based approach for 2-D localization of incoherently distributed sources in massive MIMO systems, *IEEE Journal of Selected Topics in Signal Processing*, vol. 8, no. 5, pp. 996-1011, Apr. 2014.
- A. Hu, T. Lv, H. Gao, Y. Lu, and E. Liu, Pilot design for large-scale multi-cell multiuser MIMO systems, in *Proc. 2013 IEEE International Conference on Communications (ICC)*, Budapest, Hungary, Jun. 2013, pp. 5381-5385.