

Miao He

Education:

Doctor of Philosophy, August 2013, Electrical Engineering, Arizona State University, AZ
Master of Engineering, June 2008, Electrical Engineering, Tsinghua University, China
Bachelor of Engineering, June 2005, Electrical Engineering, NUPT, China

Academic experience:

Sept. 2019 - present: Associate Professor (tenured), Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, TX
Sept. 2013 - Aug. 2019: Assistant Professor, Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, TX
Jan. 2013 - May. 2013: Lab instructor, School of Electrical, Computer, and Energy Engineering, Arizona State University, Tempe, AZ
Aug. 2008 - Dec. 2012: Research Assistant, School of Electrical, Computer, and Energy Engineering, Arizona State University, Tempe, AZ

Non-academic experience:

July. 2007 - Oct. 2007: Intern, Philips Research East Asia, Shanghai, China

Certifications or professional registrations: None

Current membership in professional organizations:

Institute of Electrical and Electronics Engineers

Honors and awards:

National Science Foundation CAREER Award, 2017

Service activities:

- TTU ECE Department Undergraduate Curriculum Circuit and Electronics Curriculum subcommittee.
- TTU College of Engineering Covid Lessons Learned committee 2021, Student Grade Appealing committee 2022.
- TTU Faculty Senate 2019-2022.
- TTU Faculty Adhoc Covid Response committee 2021.
- Organizer and TPC chair for first International Workshop on Green and Energy Efficient Networks (GREEN).
- Panelist and proposal reviewer for National Science Foundation (eight times) and Singapore National Research Foundation (three times).
- Reviewer for various IEEE journals.

The most important publications from the past five years: (*corresponding author)

- Hasan, M. , Zaman, I. , He, M*. and Giesselmann, M. (2022) Reinforcement Learning-Based Control for Resilient Community Microgrid Applications. Journal of Power and Energy Engineering, 10, 1-13. doi: 10.4236/jpee.2022.109001.

- X. Chen, J. Zhao, and M. He, "Regional Wind Power Ramp Forecasting through Multinomial Logistic Regression". in IEEE Annual Green Technologies Conference 2020.
- Zhang J, He M, Yang L, Vittal V., inventors. Support vector machine enhanced models for short-term wind farm generation forecasting. United States US10181101. 2019 January 15.
- S. Abedi, M. He*, D. Obadina. Congestion Risk-Aware Unit Commitment with Significant Wind Power Generation. IEEE Transactions on Power Systems. 2018; 33(6):6861-6869. DOI: 10.1109/TPWRS.2018.2831677
- J. Zhao, S. Abedi, M. He*, P. Du, S. Sharma, B. Blevins. Quantifying Risk of Wind Power Ramps in ERCOT. IEEE Transactions on Power Systems. 2017; 32(6):4970-4971. DOI: 10.1109/TPWRS.2017.2678761

Professional development activities:

TLPDC Annual Advancing Teaching & Learning Conference, 2015, 2022