## 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 subcommitee.
- 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 forshort-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