

**Yang Zhao**  
4201 S. Washington St., Marion, IN 46952  
yang.zhao@indwes.edu

**Education**

- Ph.D. in Electrical Engineering 8/2013 - 8/2019  
Cleveland State University, Cleveland, OH, USA
- M.S. in Electrical Engineering 1/2010 - 8/2013  
Cleveland State University, Cleveland, OH, USA
- B.S. in Electrical Engineering 9/2005 - 7/2009  
Shenyang University of Technology, Shenyang, Liaoning, China

**Experience**

- Associate Professor 7/2022 - present  
Indiana Wesleyan University, Marion, IN
  - MAT-253 Calculus I (4 Cr. Hr.)
  - EGR-350 Advanced CAD (2 Cr. Hr.)
  - CPE-210 Digital Systems (3 Cr. Hr.)
  - EGR-270 Electric Circuits & Instrumentation (4 Cr. Hr.)
  - EEE-220 Analysis and Design of Linear Circuits (3 Cr. Hr.)
  - EEE-320 Electronic Devices and Circuits I (4 Cr. Hr.)
  - EGR-320 MATLAB for Problem Solving (2 Cr. Hr.)
  - CPE-340 Microprocessor Systems (4 Cr. Hr.)
  - EEE-310 Signals and Systems (3 Cr. Hr.)
  - EEE-350 Automatic Control (3 Cr. Hr.)
  - EGR-481 Senior Design Project I (2 Cr. Hr.)
  - EEE-360 Electromagnetic Fields and Waves (3 Cr. Hr.)
  - EGR-482 Senior Design Project II (3 Cr. Hr.)
  - EGR-142 Computer Aided Design (3 Cr. Hr.)
  
- Assistant Professor 8/2019 - 7/2022  
Taylor University, Upland, IN
  - ENP 431 Advanced Electronics and Microcircuits (4 Cr. Hr.)
  - ENP 104 Introduction to Engineering and Software Tools (3 Cr. Hr.)
  - COS 130 Computational Problem Solving for Engineers (3 Cr. Hr.)
  - PHY 204L General Physics II Lab (2 Cr. Hr.)
  - PHY 212L University Physics II Lab (2 Cr. Hr.)
  - ENP 341 Microcomputer Interfacing (4 Cr. Hr.)
  - ENP 321 Applied Electromagnetics (2 Cr. Hr.)
  - ENP 332 Control Systems (4 Cr. Hr.)
  - ENP 392 Junior Engineering Project (3 Cr. Hr.)
  - ENP 492 Engineering Senior Capstone I (2 Cr. Hr.)
  - ENP 493 Engineering Senior Capstone II (3 Cr. Hr.)
  - ENP 494 Engineering Senior Capstone III (1 Cr. Hr.)
  
- Instructor  
Cleveland State University, Cleveland, OH
  - EEC 492 Electronic Printing Lab (2 Cr. Hr.) 1/2018 - 5/2019
  - EEC 312 Electric Circuits Lab (2 Cr. Hr.) 8/2014 - 5/2019
  - EEC 441 Control Systems Lab (2 Cr. Hr.) 8/2010 - 5/2012
  
- Teaching Assistant  
Cleveland State University, Cleveland, OH
  - EEC 314 Electronics II (3 Cr. Hr.) 1/2013 - 5/2013
  - EEC 510 Linear Systems (4 Cr. Hr.) 8/2012 - 12/2012

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**Research Interests**

- Advanced control of electric motors, surface vehicles, and power systems
- Back-stepping control, sliding mode control, and active disturbance rejection control design

**Publications**

- Journals
  - Y. Zhao, L. Dong, “Adaptive back-stepping control on container ships for path following,” *Journal of Systems Engineering and Electronics*, vol. 31, no. 4, pp.780-790, 2020.
  - Y. Zhao, L. Dong, “Robust Path-following Control of a Container Ship Based on Serret-Frenet Frame Transformation,” *Journal of Marine Science and Technology*, vol. 25, 2019, pp. 69-80.
  - Y. Zhao, L. Dong, “Robust Current and Speed Control of a Permanent Magnet Synchronous Motor Using SMC and ADRC,” *Control Theory and Technology*, vol. 17, 2019, pp. 190-199.
  - L. Dong, A. Mandali, A. Morinec, Y. Zhao, “Active Disturbance Rejection Based Load Frequency Control and Voltage Regulation in Power Systems,” *Control Theory and Technology*, vol. 16, no. 4, 2018, pp. 335-349.
- Conference proceedings
  - L. Dong, Y. Zhao, R. Yu, “Implementation of an Active Disturbance Rejection Controller on a Torsional Plant,” *2017 36th Chinese Control Conference (CCC)*, Dalian, China, July 26-28, 2017, pp.4801-4806.
  - Y. Zhao, L. Dong, “Robust Speed Control of a Permanent Magnet Synchronous Motor System,” *2016 Chinese Control and Decision Conference (CCDC)*, Yinchuan, China, May 28-30, 2016, pp. 3271-3276.
- Textbook reviews
  - S. Lee and M. Buzby, *Mathematical Modeling and Simulation with MATLAB*, University of Alaska Southeast, 2021. <https://open.umn.edu/opentextbooks/textbooks/mathematical-modeling-and-simulation-with-matlab>.
  - M. Steer, *Microwave and RF Design: Radio Systems*, North Carolina State University Libraries, 2019. <https://open.umn.edu/opentextbooks/textbooks/microwave-and-rf-design-radio-systems>.
  - J. Fiore, *Semiconductor Devices: Theory and Application*, Dissidents, 2018. <https://open.umn.edu/opentextbooks/textbooks/573>.

**Services**

- Churches
  - Chinese Community Church of Indianapolis, Indianapolis, IN 12/2023 - present
  - Muncie Chinese Christian Fellowship, Muncie, IN 1/2020 - 12/2023
  - Cleveland Chinese Christian Church, Cleveland, OH 5/2011 - 12/2019
- Universities
  - Intercultural Fellows Committee 8/2025 - present  
Indiana Wesleyan University, Marion, IN
  - Engineering Lab and Safety Committee 2/2025 - present  
Indiana Wesleyan University, Marion, IN
  - MECS Division Scholarship Committee 4/2024 - present  
Indiana Wesleyan University, Marion, IN
  - Engineering Search Committee 10/2022 - present  
Indiana Wesleyan University, Marion, IN
  - Institutional Review Board 8/2021 - 7/2022  
Taylor University, Upland, IN

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- Academia/Societies
  - Associate Editor American Control Conference 10/2021 - present
  - President of Epsilon Alpha Chapter of IEEE-HKN Honor Society Cleveland State University, Cleveland, OH 4/2016 - 4/2017
  - Vice President of Epsilon Alpha Chapter of IEEE-HKN Honor Society Cleveland State University, Cleveland, OH 4/2015 - 4/2016
- Community
  - Wildcat Summer Camp Indiana Wesleyan University, Marion, IN 6/2023 - present

**Awards**

- Outstanding IEEE-HKN Member Award Cleveland State University, Cleveland, OH 4/2017
- Graduate Student Travel Award Cleveland State University, Cleveland, OH 4/2016

**Memberships**

- Christian Engineering Society 12/2025 - present
- American Society for Engineering Education 3/2024 - present
- IEEE-HKN Honor Society 4/2015 - 4/2017
- Institute of Electrical and Electronics Engineers 3/2014 - present