

Education

Central South University 09/2017-Now

- **Master-Doctor Combind Program**, School of Automation
- **Research Interests:** Complex Networks || Security of Industrial Cyber-Physical System|| AGV
- **Supervisor:** Chunhua Yang, *IEEE Fellow*

University of Victoria 12/2021-12/2022

- **Visiting PhD Student**, Department of Mechanical Engineering
- **Supervisor:** Yang Shi, *IEEE Fellow*

Central South University 09/2012-06/2016

- Scholarship for Outstanding Students (every year)

Experiences

- Security of Industrial Cyber-Physical System 01/2020-06/2022
- MIIT-Industrial Internet Innovation Application Platform for Process Industry 01/2019-09/2022
- AGV System for Iron Industrial, Head 12/2017-12/2018
- *Innovation-Driven Plan in Central South University*
- AGV System for Medical Storage, Head 06/2017-/05/2018
- Human Motion Pose Capture and Reconstruction Based on Inertial Sensors, Third Member 03/2015-03/2016
- Honorable Mention of Mathematical Contest in Modeling of American, Head 01/2015

Papers

- **Y. Zhang**, C. Yang, K. Huang, C. Zhou and Y. Li, "Robust Structure Identification of Industrial Cyber-Physical System From Sparse Data: A Network Science Perspective," *IEEE Transactions on Automation Science and Engineering*, 2021, [doi: 10.1109/TASE.2021.3062356](https://doi.org/10.1109/TASE.2021.3062356) (JCR Q1)
- **Y. Zhang**, K. Huang, and C. Yang, "Complex Networks Identification Using Bayesian Model with Independent Laplace Prior from Evolutionary Game," *Chaos*, vol 31, no. 21, 2021, [doi: 10.1063/5.0031134](https://doi.org/10.1063/5.0031134) (JCR Q1)
- **Y. Zhang**, C. Yang, K. Huang, M. Jusup, Z. Wang and X. Li, "Reconstructing Heterogeneous Networks via Compressive Sensing and Clustering," *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2020, [doi: 10.1109/TETCI.2020.2997011](https://doi.org/10.1109/TETCI.2020.2997011) (JCR Q1)
- **Y. Zhang**, C. Yang, K. Huang, "Intrusion Detection of Industrial Internet-of-Things Based on Reconstructed Graph Neural Network," *IEEE Transactions on Network Science and Engineering*, 2022, [doi: 10.1109/TNSE.2022.3184975](https://doi.org/10.1109/TNSE.2022.3184975) (JCR Q1)
- K. Huang, **Y. Zhang**, Y. Li, C. Yang, and Z. Wang, "Effects of External Forcing on Evolutionary Games in Complex Networks," *Chaos: An Interdisciplinary Journal of Nonlinear Science*, vol 28, no. 9, 2018, [doi: 10.1063/1.5040714](https://doi.org/10.1063/1.5040714) (JCR Q1)
- K. Huang, W. Deng, **Y. Zhang**, and H. Zhu, "Sparse Bayesian Learning for Network Structure Reconstruction Based on Evolutionary Game Data," *Physica A: Statistical Mechanics and its Applications*, vol 541, 2020, [doi: 10.1016/j.physa.2019.123605](https://doi.org/10.1016/j.physa.2019.123605) (JCR Q1)

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Skills:

- Computer Programming
- AGV Operation System
- Mathematical modeling
- Data Mining & Processing

Interests:

- Soccer
- Martial Arts
- Artificial intelligence and Machine Learning