



Qibo Yang

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EDUCATION

University of Cincinnati (UC), Cincinnati, OH	08/2016 – present
• Ph.D. Candidate in Mechanical Engineering	
Beihang University (BUAA), Beijing, China	09/2013 – 01/2016
• Master of Engineering in Control Science and Engineering	
Beihang University, Beijing, China	09/2009 – 07/2013
• Bachelor of Engineering in Quality and Reliability Engineering	

EXPERIENCES

Shanghai Electric Corporation Project, UC, OH	02/2017 - present
• Wrote Python code for wind speed and wind power prediction algorithms, and wrote the report for parameter selections of the relevant algorithms.	
Research on HIWIN Rehabilitation Machine, UC, OH	11/2016 - present
• Wrote the literature survey for the development of a cyber assistant for a robotic gait training system, and was responsible for design of experiments.	
China State Shipbuilding Corporation Project, UC, OH	04/2017 - present
• Developed the LabVIEW toolbox for intelligent maintenance.	
Mishap Mechanisms in Complex Systems and Rehearsal Methods Based on Functional Resonance Analysis Method (FRAM), National Natural Science Foundation of China, BUAA, Beijing, China	07/2013 – 01/2016
• Used finite state machine to describe couplings of functional variability, and then applied formal verification to analyze hazards, hazardous scenarios and the resonance of complex socio-technical systems.	

SELECTED PUBLICATIONS

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- Yang, Q., Tian, J., and Zhao, T. (2017). Safety Is An Emergent Property: Illustrating Functional Resonance in Air Traffic Management with Formal Verification. *Safety Science*.
 - Tian, J., Wu, J., Yang, Q., and Zhao, T. (2016). FRAMA: A Safety Assessment Approach Based on Functional Resonance Analysis Method. *Safety Science*.

EXTRACURRICULAR ACTIVITIES

Member, 18th Graduate Student Council, BUAA, Beijing, China	11/2014 - 11/2015
Vice President, Graduate Student Union of School of RSE, BUAA, Beijing China	12/2013 - 12/2014

HONOR & AWARDS

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- 2016 Excellent Graduate of BUAA
 - 2015 Outstanding Student Cadre of Graduate President Scholarship of BUAA
 - 2014 Outstanding Graduate Student of BUAA

SKILLS

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- Software: Python, Matlab, R, LabVIEW, C, Pascal, SAS, Minitab, MTConnect, AutoCAD, CAXA, NuSMV, SPIN, PAT, Linux, LaTeX
 - Language: Chinese (native), English (proficient), German (elementary)
 - Hobbies: badminton, photography, singing