



Qibo Yang

Cell: (513)-237-1813
Email: yangqb@mail.uc.edu

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

RESEARCH EXPERIENCE

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 formal methods to describe functional variability, and then applied model checking to analyze functional hazards. The methodology can find emergent hazardous scenarios of complex socio-technical systems.

PUBLICATIONS

- 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*.

HONOR & AWARD

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

OTHERS

- Software: Python, Matlab, R, LabVIEW, SAS, Model Checker (NuSMV, SPIN, PAT), C, Pascal, Minitab, Git, Linux (Ubuntu), LaTeX
- Language: Chinese (native), English (proficient), German (elementary)