

Ph.D. Positions in Safe Physics-AI
Department of Computer Science or Electrical and Computer Engineering
Wayne State University

Position Description:

Dr. Yanbing Mao in the Engineering Technology Division at Wayne State University is looking for several Ph.D. students, fully funded by a project: **Safe Physics-AI**, with applications to quadruped robots and self-driving vehicles. This project is collaborative, with collaborators from the University of Illinois Urbana-Champaign, College of William & Mary, University of Delaware, and Technical University of Munich, Germany. The position start time can be Fall 2023 or Winter 2024 for Fall 2024.

Note: In the first year, the admitted candidate will receive training in quadruped robots and self-driving vehicles at the Technical University of Munich, Germany.

Desired Experience:

- Strong experience in deep reinforcement learning, Python and TensorFlow.
- Strong background in System Dynamics and Control, Signal Processing, and Cyber-Physical Systems, with a strong mathematical background.
- Experience in computer vision will be a plus.

About Wayne State University (WSU):

WSU is a public research university in Detroit, Michigan. It is Michigan's third-largest university. WSU is classified among "R1: Doctoral Universities – Very high research activity".

About Dr. Yanbing Mao (homepage: <https://ymao578.github.io/index.html>):

Dr. Mao is currently an Assistant Professor with the Engineering Technology Division, at Wayne State University, MI, USA. He received his Ph.D. degree in Electrical and Computer Engineering from the State University of New York at Binghamton in 2019. From 2019 to 2022, he was a Postdoctoral Researcher at the University of Illinois Urbana-Champaign. His current research focuses on Physics-AI, Cyber-Physical Systems, and Social Information Dynamics and Control. Dr. Mao is co-leading an international research group of Physics-AI.

If you are interested, please send your CV to Dr. Mao (hm9062@wayne.edu).

