Aspiring PI Info:

- · Hao Zheng
- Associate Professor
- University of South Florida

SOUTH FLORIDA

Research interests:

- Formal methods and algorithms for scalable verification
- Data mining/machine learning for design automation and verification
- Design with correctness-by-construction

Project Idea(s)...

- Security of synthetic biology, and its impacts on environment, agriculture, healthy
- Formal methods for security assurance of synthetic biology

Current Project(s)

- Efficient Stochastic Verification of Computation and Communication Systems
- Compositional verification of concurrent system
- Specification mining from SoC communication traces
- RTL code generation using LLMs

... and possible collaborators sought

- Researchers in synthetic biology
- Researchers in other fields to discuss their challenges and identify potential collaborations

