

Aspiring PI Info:

- Name: Lipsy Gupta
- Position: Postdoctoral Fellow
- Affiliation: Kansas State University

**Research interests:**

- ❖ Ph.D. in Mathematics (Analysis and Topology)
- ❖ Formal Verification
- ❖ Safety and Reliability of AI-enabled CPS
- ❖ Differential Privacy

Current Project(s):

- ❖ Safety Verification of Neural Networks
- ❖ Safety Verification of CPS with Anytime Sensors
- ❖ Verification of Differential Privacy of Online Algorithms

Project Idea(s):

- ❖ Proof Transfers in Evolving Systems
- ❖ Abstraction-based techniques for Neural Network Verification
- ❖ Formal modeling and verification of ROS
- ❖ Education and Outreach: promote women in computing; starting at high school level

Collaborators Sought:

- ❖ Formal Methods: Mathematical foundations for safety and privacy of AI
- ❖ In the Field: Robotics and AI researchers, CPS, labs, companies

