

Aspiring PI Info:

- Name: Qianchuan Ye
- Position/Title: Assistant Professor
- Affiliation: University at Buffalo, SUNY

**Research interests:**

- Formal verification and synthesis in interactive proof assistants;
- Type theory and programming languages (e.g., for secure systems)

Current Project(s)

- Type system and language design for secure multiparty computation

Project Idea(s)...

- Safety and correctness guarantees in autonomous vehicles
- Verifying privacy-preserving properties of machine learning systems
- Interactive theorem provers as pedagogical tools for undergraduate CS study

... and possible collaborators sought

- Autonomous / robotics / cyber-physical systems

