Discussion with ISP

My CAREER Proposal

- Title: Understanding and Accounting for Human Behavior in Machine-in-the-Loop Decision Making

- Goal: Explore how to utilize machine learning to assist humans in making better decisions while accounting for human behavioral biases.
  - A study of machine learning, humans, and how they interact

Activities on ISP Website

- **Host a teacher in your lab for the summer**
- Host a student group on campus
- **Lead a Hot Topics workshop in your field**
- Teach a semester long course
- Provide expertise in curriculum development
- Lead a book club or book discussion
- Be a guest speaker at a teacher workshop
- **Offer a summer research experience for a high school student**

Summer Camps

- Duration: 3 half-days?
- Content
  - Part 1: Overview of ML and human behavioral
  - Part 2: Projects: Exploring different designs of ML-assisted decision making
    - Pre-prepare datasets, ML, and different designs (with some flexibility in making changes)
    - Students explore the benefits and issues of each design
    - Guided by Ph.D. students
- Preparation and execution
  - Year 1 and 2: Recruit high-school teachers
    - Exposure to the research
    - Help design the workshop
  - Year 3 and beyond: workshops

Summer Internships

- Duration: 4~8 weeks?
- Content
  - Part 1: Lectures of ML and human behavioral
    - Including more details with some training on math and programming
  - Part 2: Projects: Exploring different designs of ML-assisted decision making
    - Pre-prepare datasets, ML, and different designs (with some flexibility in making changes)
    - Students explore the benefits and issues of each design
    - Guided by Ph.D. students
    - Students are more involved in the implementation and design
- Preparation and execution
  - Year 1 and 2: Recruit high-school teachers
    - Exposure to the research
    - Help design the training program and topics
  - Year 3 and beyond: internships