

# SHRUTI PRADEEP MAHAJAN

Webpage: [www.shrutipmahajan.com](http://www.shrutipmahajan.com) LinkedIn: [www.linkedin.com/in/shrutipmahajan](http://www.linkedin.com/in/shrutipmahajan) Email: [spmahajan@wpi.edu](mailto:spmahajan@wpi.edu)

## OBJECTIVE

---

Summer Internship in Computer Science as a User Experience Intern

## EDUCATION

---

**M.S./Ph.D. of Science in Computer Science** Aug '18 – Present  
Worcester Polytechnic Institute (WPI), Worcester, MA (CGPA: 3.71)

**Bachelor of Engineering in Computer Science** Aug '14– Jul '18  
Cummins College of Engineering for Women, Savitribai Phule Pune University, India (61.21 %)

## SKILLS

---

**Skills:** User Surveys and Interviews, Prototyping, Wireframes, Mixed Methods User Studies, Qualitative and Quantitative Data Analysis, Accessible and Inclusive Interfaces, Designing Better UIs, Storytelling, Scenario Design

**Programming:** CSS, HTML, JavaScript, Android, Python, C#, C/C++, Matlab, Java

**Software and Tools:** Qualtrics, Invision, Balsamiq, Sketch, Adobe Creative Suite, InDesign, Photoshop

## PUBLICATIONS

---

Rachel Boll, **Shruti Mahajan**, Jeanne Reis, Erin Solovey. *Creating questionnaires that align with ASL linguistic principles and cultural practices within the Deaf community* ASSETS 2020

**Shruti Mahajan**, Leo Bunyea, Nathan Partlan, Dylan Schout, Casper Hartevelde, Camillia Matuk, Will Althoff, Tyler Duke, Steven Sutherland and Gillian Smith. *Toward Automated Critique for Student-Created Interactive Narrative Projects*. Proc. EXAG 2019.

## EXPERIENCE

---

**Teaching Assistant: Human Computer Interaction, WPI** Oct '20 – Present

**Research Assistant, WPI** (*Advisor: Erin Solovey*) Jan '20 – Aug '20

- Designed and conducted user studies to find novel HCI paradigms for American Sign Language (ASL) based User Interfaces
- Designed, developed and deployed an accessible Demographic survey tool exclusively in ASL.
- Analyzed survey and interview data of deaf users to study ASL based UIs focusing on Search, Layout and Navigation
- Learned American Sign Language through the Deaf Inc, ASL Program (Level 1)

**Research Assistant, WPI** (*Advisor: Gillian Smith*) Aug '18 – Dec '19

- Working on StudyCrafter, a system for creating interactive and animated games, experiments, stories and scenarios.
- Finding ways to best present machine generated automated critique to students.
- Conducted mixed-methods user studies to study students interaction with this AI and analyzed the qualitative and quantitative data through Codification and statistical analysis (ANOVA)

## PROJECTS

---

**Carbon fiber based Fabric Sensors** Aug '20 – Present

- Leading focus groups to find unique applications and designing High Fidelity prototypes of this knitted fabric sensor.

**NewHome: A buy and sell Android application to improve campus sustainability, WPI** Aug '19 – Dec '20

- Designed and developed wireframes, prototypes and end product through an iterative design process.

**Why is Emotion Detection important, WPI** Jan '19 – May '19

- Studied where smart devices fail due to their lack of human understanding.

**Built and Refined a Prototype for an E-commerce website** Jan '19 – May '19

- Created Wireframes using Invision and conducted Heuristics evaluations on the prototype
- Conducted a usability survey for the application and created user personas.

## ACTIVITIES AND LEADERSHIP ROLES

---

- Mentored a high-school and undergraduate students as a part of Women's Research And Mentorship Program (WRAMP)
- Delivered a seminar on 'Programming a Computer to play Chess using AI and ML techniques'.