

# Paritosh Bahirat

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## EDUCATION

### **PhD - Human Centered Computing**

Clemson University, Clemson, SC, U.S.A.

**May 2017 - Till Date**

G.P.A. - 3.83/4.0

### **M.S. - Industrial Engineering (Focus – Human Factors)**

Clemson University, Clemson, SC, U.S.A.

**August 2015 - May 2017**

G.P.A. - 3.4/4.0

### **B.E. - Mechanical Engineering**

University of Pune, Pune, MH, India

**August 2009 - May 2013**

## SKILLS

- **UX Research** – Usability Testing, Interview, Personas, A/B Testing, Experimental Design, Card Sorting, Qualitative Coding, Quantitative Data Analysis, CFA, SEM, Survey Design, Topic Modeling
- **UX Design** – Adobe (Experience Design-XD, Illustrator, Muse, InDesign, Photoshop), Axure RP, HTML, CSS
- **Data Analysis** – R, M-plus, R-QDA (Qualitative Data Analysis)

## UX RESEARCH EXPERIENCE

### **Graduate Research Assistant**

Clemson University, Clemson, S.C., U.S.A.

**May 2016 – Till date**

#### **Project: Managing Privacy in Household IoT environments**

- Assisted in developing script, video and survey questionnaire to be shown to participants of the user study.
- Conducting statistical data analysis using R and R-Studio to develop path models which explain attitude-behavior relationships and mediating parameters of study.
- Developed Privacy Settings interface using Adobe XD based on statistical data analysis in R.

#### **Project: Data driven approach to design IoT Privacy Settings Interfaces**

- Conducted statistical data analysis on existing dataset from 200 participants using R and M-Plus to establish an attitude-behavior based privacy decision making model for generalized IoT environments.
- Designed privacy setting interfaces using Axure RP, based on inferences drawn from data analysis.

#### **Project: Examining generational differences in Adoption and Use of IoT Technologies.**

- Worked on cleaning and organizing available qualitative data and prepared it for data analysis.
- Conducted Topic Modeling to develop hypothesis and tested it through qualitative data analysis using (R-QDA) to understand factors influencing IoT adoption across different generations of users

#### **Project: Managing Privacy in Autonomous Driving Vehicle**

- Interviewed potential users to gather privacy related needs and developed prototype using Adobe XD.
- Conducted usability tests with designed prototype to understand areas for improvement, designed user study which included scenarios with timed tasks, System Usability Surveys and Think Aloud methods.

#### **Project: Puzzle of Life**

- Conceptualized and implemented primary prototype to demonstrate various tangible interaction mediums to use the designed setup. Used Laser Cutting to make various parts of prototype.
- Developed Story-boards to understand user flows.
- Used Adobe Illustrator, Photoshop, Spark and XD to create and demonstrate multiple functionalities of prototype.

### **Project: Design Mobile based Application for Vocational Training Module**

- Existing system was a standalone desktop software. The aim was to make an application which could be used on a Mobile phone with touchscreen and other sensors.
- Conducted usability tests on existing system and conducted user interviews to gain insights into user needs.
- Designed and tested cell-phone based app using Adobe XD and Adobe Photoshop modules.

### **Project: Design and Implement Website for Sam's Gyro, Clemson**

- Gathered user needs by interviewing users, created user personas and conducted competitive benchmarking.
- Designed the website using Axure RP and conducted usability tests to develop the final website.

## **WORK EXPERIENCE**

### **Project Engineer**

**June 2013 – June 2015**

ThyssenKrupp Industries India Pvt. Limited, Pune, India

- Co-ordinated between various stake holders of projects; from client to internal departments of company.
- Ensured that product deliveries were completed within strict deadlines while ensuring minimum costs.
- Played vital role in strategic product planning, procurement and manufacturing planning.

### **Graduate Teaching Assistant,**

Clemson University, Clemson, SC, U.S.A.

**December 2016 – May 2016**

- Assisted faculty with coursework (Human Factors in Risk Engineering) development.
- Prepared presentations and graded assignments.

## **PUBLICATIONS**

- **Paritosh Bahirat**, Yangyang He, Abhilash Menon and Bart P. Knijnenburg. 'A Data-Driven Approach to Developing IoT Privacy-Setting Interfaces'. *In Proceedings of the 2018 ACM International Conference on Intelligent User Interfaces (IUI'18)*
- **Paritosh Bahirat**, Qizhang Sun and Bart P. Knijnenburg. 'Scenario Context v/s Framing and Defaults in Managing Privacy in Household IoT'. *In Proceedings of the 2018 ACM International Conference on Intelligent User Interfaces (IUI'18)*
- **Paritosh Bahirat**, Yangyang He and Bart P. Knijnenburg. 'Exploring Defaults and Framing effects on Privacy Decision Making in Smarthomes'. *In Workshop on the Human aspects of Smarthome Security and Privacy at Fourteenth Symposium on Usable Privacy and Security (SOUPS'18)*
- Xinru Page, **Paritosh Bahirat**, Mohammed Safi, Bart P. Knijnenburg and Pamela Wisniewski. "The Internet of What?" Understanding Differences in Perceptions and Adoption for the Internet of Things. *In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*
- Yangyang He, **Paritosh Bahirat**, Abhilash Menon and Bart P. Knijnenburg. 'A Data-Driven Approach to Designing for Privacy in Household IoT'. *(Accepted) In ACM Transactions on Interactive Intelligent Systems*

## **AWARDS**

- Best Paper Award at ACM IUI 2018 for paper titled "A Data-Driven Approach to Developing IoT Privacy-Setting Interfaces"
- Clemson HFI Travel grant 2018
- ACM-IUI Travel grant 2018