

# Sanjana Gautam

INFORMATICS DOCTORAL STUDENT

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## Summary

As a UX Researcher I am motivated by my quest to contribute to research concerning human behavioral dynamics through pervasive sensing, and in Human Agent Interaction. Highly skilled in collaboration and critical thinking, and passionate about using research methods to find impactful solutions for organizations.

## Education

### Pennsylvania State University

PHD IN INFORMATICS, UNDER THE ADVICE OF DR. MARY BETH ROSSON

University Park, PA.

2019 - Present

### Shiv Nadar University

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Greater Noida, UP.

2015 - 2019

## Industry Experience

### Dataminr

RESEARCH INTERN, HAI

New York City, NY (Remote)

Sept 2022 - Dec 2022

- Worked as a researcher in the AI Engineering team
- Conducted focus group studies to inform product research
- Summarized interview results after thematic analysis

### Dataminr

RESEARCH INTERN, HCI

New York City, NY (Remote)

Sept 2021 - Dec 2021

- Worked as a qualitative researcher in the AI Engineering team
- Designed, conducted and analyzed semi-structured interviews
- Designed, circulated and collected survey data

### Goldman Sachs

TECHNOLOGY STRATS INTERN

Bengaluru, India

Jan 2019 - May 2019

- Worked as a part of the Corporate Cash Management team.
- Developed a web-based micro-services driven payment control portal to replace the legacy payment control platform.

## Academic Experience

### Pennsylvania State University

RESEARCH ASSISTANT, UNDER DR. PRASENJIT MITRA AND DR. MAHIR AKGUN

University Park, PA.

Jan 2021 - Present

- Conducted Expert Interviews to elicit expert opinion on challenges in the field of AI education
- Performed thematic analysis on the interview data
- Surveyed and cataloged literature in knowledge elicitation techniques

### Pennsylvania State University

RESEARCH ASSISTANT, SCAN LAB

University Park, PA.

May 2020 - Dec 2021

- Worked in the **Supporting Civic Awareness Networks (SCAN)** Lab at Penn State
- Conducted and analysed user research on crisis response
- Utilised research methods like interviews, surveys and usability studies to test the design of a situational awareness tool
- Collaborated with cross-functional teams to identify research objectives
- Designed and developed the SCAN Lab website.

### Pennsylvania State University

RESEARCHER, CIL

University Park, PA.

Aug 2019 - Present

- Currently a part of the **Collaboration and Innovation Lab**
- Planned research projects centered around peer-based adaptive learning, from participant recruitment, screening, scheduling to designing study plans
- Lead user initiative to understand user requirements and inform product development strategies for a cross-functional team
- Managed research projects from scoping phase, method creation, analysis and result summarization
- Evaluating design implications that originate from a geographically distributed community.

- Worked on the statistical analysis of educational YouTube channel.
- Used R and Python to extract user patterns from the dataset provided by YouTube to channel owners.

## Honors & Awards

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2020	<b>Robert Graham Endowment Graduate Fellow</b> , Pennsylvania State University	State College
2019	<b>Robert Graham Endowment Graduate Fellow</b> , Pennsylvania State University	State College
2015	<b>Undergraduate Scholar (Tuition Waiver)</b> , Shiv Nadar University	Greater Noida
2013	<b>National Talent Search Scholar</b> , Government of India	New Delhi

## Professional Services

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### ACM Conferences

Pennsylvania State University

#### STUDENT VOLUNTEER

2020-2022

- Student volunteer at CSCW 2020 and UbiComp 2021
- It was an enriching experience coordinating and organizing paper sessions

### Graduate Student Organization College of Information Sciences and Technology

Pennsylvania State University

#### PRESIDENT

2020-2021

- Organizing talks, social events and hackathons.
- To facilitate social, as well as intellectual, peer-to-peer connections here at IST.

### Paper Reviews

Pennsylvania State University

#### REVIEWER

2019-Present

- Reviewed papers for various conferences and journals including CHI, CSCW, ISCRAM and Elsevier.

### HackData- The Data Science Hackathon

Shiv Nadar University

#### CO-ORGANIZER

Feb 2018

- Co-organized HackData in Shiv Nadar University, Greater Noida. Pan-India participation of > 200 students.

### SNU ACM-W Chapter

Shiv Nadar University

#### CHAIR

Nov. 2017 - Nov. 2018

- (Association for Computing Machinery - Women) Organized tutorials, talks and workshops to promote the presence of women in technology, as part as the founding committee of the SNU ACM-W Chapter

## Publications

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- **Gautam, S.**, Romera, G., Hall, H., Mahajan, P., Halse, S., Tapia, A. and Kropczynski, J. (2023) Usefulness and Usability of a Common Operational Picture Tool Integrating Social Media Data for Local Situational Awareness. In CHI Conference on Human Factors in Computing Systems. **(Under Review)**
- **Gautam, S.** & Rosson, M.B. (2023), Designing a Research Test-bed for Adaptive Learning Systems that Integrates Metacognition and Social Constructivism. IConference 2023 Proceedings (2023). **Under Review**
- Romera, G., & **Gautam, S.** (2022) Parler, Capitol Riots, Alt-Right and Radicalization in Social Media. ISCRAM Asia Pacific Conference 2022. **(Accepted, in press Nov 2022)**
- Grace, R, **Gautam, S.** and Andrea, T (2022) Continuity Planning in Public-Safety Answering Points during the COVID-19 Pandemic. ISCRAM Asia Pacific 2022 **(Accepted, in press Nov 2022.)**
- **Gautam, S.** (2022). In Alexa, We Trust. Or Do We?: An analysis of People's Perception of Privacy Policies. arXiv preprint arXiv:2209.00086.
- Romera, G., **Gautam, S.** & Tapia, A. Understanding Twitter's behavior during the pandemic: Fake News and Fear, Poster at ISCRAM 2021
- **Gautam, S.**, & Rosson, M.B. (2020).. Exploring Feelings of Student Community across a Geographically Distributed University. Proceedings of the ACM on Human-Computer Interaction, 5(CSCW1), 1-16.
- Saurabh, S.,& **Gautam, S.** (2019). Modelling and statistical analysis of YouTube's educational videos: A channel Owner's perspective. Computers Education, 128, 145-158.