

# Sanjana Gautam

INFORMATICS DOCTORAL STUDENT

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## 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, HUMAN AI INNOVATION

New York City, NY (Remote)

Sept 2022 - Dec 2022

- Designed an exploratory interview study
- Collaborated effectively with the designers, providing comprehensive needs assessment reports to inform product development decisions
- Designed and executed diary study
- Employed a range of user-centered methodologies, including think-aloud protocol, interviews, and diary studies

### Dataminr

RESEARCH INTERN, AI ENGINEERING

New York City, NY (Remote)

Sept 2021 - Dec 2021

- Worked as a qualitative researcher in the high-performing AI Engineering team, driving critical research initiatives and delivering valuable insights
- Skillfully designed, executed, and analyzed semi-structured interviews with diverse stakeholders
- Demonstrated expertise in designing and collecting survey data, employing advanced analytical techniques to summarize results and uncover meaningful patterns

### Goldman Sachs

TECHNOLOGY STRATS INTERN, CORPORATE CASH MANAGEMENT

Bengaluru, India

Jan 2019 - May 2019

- Spearheaded the development of a cutting-edge, web-based microservices-driven payment control portal to replace legacy platform.
- Designed and developed an intuitive user interface for the web-based microservice, ensuring seamless functionality and an exceptional user experience.

## Academic Experience

### Computer and Information Science Department, University of Pennsylvania

RESEARCH ASSISTANT, PENN HCI

Philadelphia, PA.

Jan 2022 - Dec 2022

- Built a tool to allow users to self-annotate the TikToks
- Analysed implicit and explicit nature of political data on Twitter using the data collected

### College of Information Sciences and Technology, Penn State

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

University Park, PA.

Jan 2022 - Dec 2022

- 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

### Supporting Civic Awareness Networks (SCAN) Lab, Penn State

RESEARCH ASSISTANT

University Park, PA.

May 2020 - Dec 2021

- 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.

### Collaboration and Innovation Lab, Penn State

RESEARCHER

University Park, PA.

Aug 2019 - Present

- 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.

## Research Interests

human-centered AI; human-in-the-loop; explainable AI; ethical considerations in AI decision-making

## Honors & Awards

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

## Professional Services

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### ACM Conferences

*Pennsylvania State University*

STUDENT VOLUNTEER AND REVIEWER

*2020-2023*

- Student volunteer at CSCW 2020, CSCW 2021, CSCW 2022, UbiComp 2021, CHI 2023 and FAccT 2023
- It was an enriching experience coordinating and organizing paper sessions item Reviewed papers for various conferences and journals including CHI, CSCW, ISCRAM, IUI and Elsevier.

### 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.

### 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.\***, Venkit, P. N.\*, Panchanadikar, R., and Huang, T. and Wilson, S. (2023). Unmasking Nationality Bias: A Study of Human Perception of Nationalities in AI-Generated Articles. **(Accepted at AIES)**.
- **Gautam, S.**, Rosson, M.B. and Akgun, M. Designing a Research Test-bed for Adaptive Learning Systems that Integrates Metacognition and Social Constructivism. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-6).
- Venkit, P. N., **Gautam, S.**, Panchanadikar, R., Huang, T. and Wilson, S. (2023). Nationality Bias in Text Generation. Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics.
- **Gautam, S.**, Akgun, M., and Mitra, P. (2022, March). Exploring the challenges of AI experts to inform AI curriculum. In Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 2 (pp. 1338-1338).
- 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 Tapia, A. (2022). Continuity planning in Public-Safety Answering Points during the COVID-19 pandemic. In Proceedings of the Information Systems for Crisis Response and Management (ISCRAM) Asia Pacific Conference (pp. 173-180). Melbourne, Australia.
- 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.