Sanchaita Hazra

PhD Student, University of Utah

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Education

2021 – Now **PhD in Economics**, *University of Utah, Salt Lake City*
Advisors: Subhasish Dugar, Haimanti Bhattacharya
Interests: Experimental Economics, Applied Microeconomics, Game Theory, Human-AI Collaboration

2016 – 2018 **Masters in Economics**, *University of Calcutta, Kolkata*
Special Papers: Game Theory and Information, Experimental Economics, Labor Economics

2013 – 2016 **Bachelors in Economics**, *Gokhale Memorial Girls' College, University of Calcutta*
Courses: Microeconomics, Macroeconomics, Econometrics, Indian Economics, Development Economics, Trade, Public Finance, Mathematical Economics, Linear Algebra, Calculus

Experiences

Aug 2022–Now **Associate Instructor**, *University of Utah, Salt Lake City*
○ Principles of Macroeconomics: Econ 2020; Summer 2024
○ Principles of Microeconomics: Econ 2010; Fall 2023, Spring 2024, Fall 2024
○ Intermediate Microeconomics: Econ 4010, Econ 6010; Summer 2023
○ Q-Pod Tutoring Instructor (Spring 2024, Spring 2023, Fall 2022)

Jan–Aug 2021 **Lecturer**, *Women's Christian College, University of Calcutta, Kolkata*
○ Undergraduate courses on Microeconomics, Mathematical Economics, Rural Development, and Comparative Development

2019–2021 **Statistician**, *DeepFlux*
Mentor: Harshit Surana
○ Sales forecasting for Fortune 500 companies using state-of-the-art algorithms based on autoregressive factors, fusing product engagement from social media and inventory information
Technical Report: Can Digital Signals Predict Automobile Signals?

Jul 2018–Jul 2020 **Research Assistant**, *Indian Statistical Institute, Kolkata*
Mentor: Dr. Priyodorshi Banerjee and Dr. Sanmitra Ghosh
○ Data Collection for field experiments, Data management, Static and dynamic data modeling

Jul 2015–Aug 2021 **Founder**, *Alankar, India*
○ A women-run online jewelry selling entity, serving 3000+ customers

Awards

2024 CSBS Graduate Travel Awards, The University of Utah

2024 Haskell Research Award of $1,500, Department of Economics, The University of Utah

2023 Graduate Student Travel Assistance Award, The University of Utah

2023 Research Award of $3,000, Global Change and Sustainability Center and the Wilkes Center for Climate Science & Policy, The University of Utah

Research Works

Published Papers

July 2024 **Data-driven Discovery with Large Generative Models**, *[pdf, blog]*
International Conference on Machine Learning (ICML), 2024
with Bodhisattwa P. Majumder, Harshit Surana, Dhruv Agarwal, Ashish Sabharwal and Peter Clark
○ We posit a practical first step towards automating end-to-end scientific discovery where Large Generative Models exhibit incredible potential; however, they alone are not enough.

June 2024 **To Tell The Truth: Language of Deception and Language Models**, *[pdf]*
North American Chapter of the Association for Computational Linguistics (NAACL, Oral), 2024
with Bodhisattwa P. Majumder
○ We show that there exists a class of algorithmic detectors that have similar but complementary truth detection performance compared to human subjects only based on textual cues.

June 2023 **Experience, learning and the detection of deception**, *[pdf]*
Journal of Economic Criminology
with Priyodorshi Banerjee and Sanmitra Ghosh
- We observe the effect of repeated exposure in deceptive environments reduces detection error, enabling learning in a high-stakes, quasi-naturalistic environment of a game show.

Working Papers

September 2023 - Now **The Good, the Bad and the Ugly: Effects of AI Quality Information on Detecting Text-Based Lies**
with Bodhisattwa P. Majumder, Haimanti Bhattacharya, Subhasish Dugar
- To what extent do individuals rely on AI to improve their ability to detect lies? We provide experimental evidence that not disclosing the AI's efficacy helps proliferate textual lies if the AI is low-quality while revealing the AI's capabilities can lead to appropriate reliance on the AI, irrespective of its quality.

July 2024 - Now **Hallucination and LLMs**
with Marta Serra-Garcia
- We examine whether individuals can identify factual incorrectness in an LLM (GPT) when asked questions about different US and international policy-relevant topics.

July 2024 - Now **Adoption of AI-assistance in Scientific Writing**
with Sachin Kumar and Bodhisattwa P. Majumder
- A less studied use case of generative AI is scientific discovery and writing. We use a three-phase randomized controlled trial of increasing complexity to conduct this evaluation, simulating a peer-reviewed process in a journal or conference publication.

Book Reviews

2024 **More than a Glitch: Confronting Race, Gender, and Ability Bias in Tech?**
Feminist Economics (Forthcoming)

Theses

2017 - 2018 **Master's Thesis**, *Dropouts and Under-age Marriage in West Bengal*
Advisor: Dr. Anindita Sen
Keywords: Under-age marriage, Dropouts, PCA, Biprobit Analysis

2015 - 2016 **Undergraduate Thesis**, *'Funding Fanny'- Role of Microfinance in the Empowerment of Women*
Advisor: Dr. Sanchita Sen
Keywords: Women Empowerment, Credit Seeking Financial Services, Micro-entrepreneurship

Talks

- **To Tell The Truth: Language of Deception and Language Models:** NAACL '24 (Oral)

- **Humans, Artificial Intelligence, and (Text-based) Misinformation:** NABE '24 (Oral), ESA '24 (Oral), Summer School, Soleto '24 (Oral), GCSC and Wilkes Summit '24 (Poster), WEAI '24 (Oral), ESA '24 (Oral), Soleto Summer School '24 (Oral), ESA '23 (Oral)

- **Experience, Learning and the Detection of Deception:** WEAI '23 (Oral)

- **Funding Fanny – Microfinance and Empowerment of Women in India:** International Conference on Sustainable Development and Education '20 (Oral), Research Scholar's Workshop Visva-Bharati '20 (Oral)

Workshops

- Summer School & Workshop on Experimetrics & Behavioral Economics, Soleto, Italy (2024)

- Behavioral Workshops, University of Utah (2021, 2022, 2023)

- Summer School, Department of Economics, Presidency University (2019)

- Workshop on Econometric Methods via R, Department of Economics, Jadavpur University (2019)

Skillsets

- **Programming Languages & Tools:** Python, R, SQL, PostgreSQL, STATA, oTree, LaTeX 2_ε