Abhraneel Sarma

abhraneel@u.northwestern.edu

abhsarma.github.io

Research Interests

Broadly: I am interested in studying how people make sense of uncertainty information which arise in a typical data analysis pipeline.

Recently: I developed an R package for easily specifying multiverse analyses, which helps analysts to surface the uncertainty in their data analysis process itself; I have also worked on projects which investigate how users interpret uncertainty visualisations in missing data contexts or multiple comparison scenarios

Education

2019 - present	**PhD, Computer Science, Northwestern University** **Advisor:** Jessica Hullman, Matthew Kay
2016 - 2018	**Master of Science, Information, University of Michigan** HCI and Data Science specialization **Advisor:** Matthew Kay **Thesis:** Tell don't just show: Narratives improve recall more than interactivity for communicative visualizations
2012 - 2016	**Bachelors in Design, Indian Institute of Technology Guwahati** Minor in Mechanical Engineering

Publications

Conference publications

2020	**Prior Setting in Practice: Strategies and Rationales Used in Choosing Prior Distributions for Bayesian Analysis** *Abhraneel Sarma* and Matthew Kay CHI 2020: Conference on Human Factors in Computing Systems
2019	**Increasing the Transparency of Research Papers with Explorable Multiverse Analyses** Pierre Dragicevic, Yvonne Jansen, *Abhraneel Sarma*, Matthew Kay, and Fanny Chevalier CHI 2019: Conference on Human Factors in Computing Systems

Work Experience

2019 - present

Graduate Research Assistant
MUCollective, Northwestern University

2016 - 2019   **Graduate Research Assistant** (*full time researcher, May 2018 onwards*)
MUCollective, University of Michigan

2017   **User Experience Intern**
Office of Academic Innovation, University of Michigan

2015   **Research Intern**
Keio-NUS CUTE Center, National University of Signapore

Teaching

Graduate Student Instructor, SI588 *Fundamentals of Human Behavior*
University of Michigan School of Information

Graduate Student Instructor, SI330 *Data Manipulation in Python*
University of Michigan School of Information

Invited Talks

2019   **Statistics and Scientific reporting: Can we do better?**
Data Camp at the University of Michigan

Service

as a reviewer (for conferences)
2020   CHI

as a student volunteer
2018   IEEE VIS, Berlin, Germany
2017   IEEE VIS, Phoenix, AZ, USA

Grants

MSI Travel Grant, University of Michigan School of Information for CHI 2017
MSI Research Funding, University of Michigan School of Information for
data collection for Master's Thesis

Skills

Technical Skills
R, JavaScript, Python, SQL, C/C++ and Latex