

Abhraneel Sarma

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abhsarma.github.io

Research Interests

Broadly: I am interested in studying how people interpret visualizations, and how visualizations can be used for improving statistical analysis or reporting statistical results.

Recently: I created an R package for easily specifying multiverse analyses. I am also working on a project investigating different uncertainty representations for addressing the multiple comparisons problem.

Education

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| 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

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| 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

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| 2019 - present | Graduate Research Assistant
MUCollective, Northwestern University |
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- 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 Singapore

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