

Amit Jena

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Homepage: <https://amitjenaiitbm.github.io/>

Research interest

Broadly—Designing/building/evaluating user interfaces and information visualisations for the masses.

Latently—Qualitative study to understand the visualisation design process by novice and expert designers; communicating uncertainty to non-experts through visualisation.

I am interested in how people interpret visualisations, and how visualisations can be used for communicating complex information.

Education

- 2017–Present **PhD, HCI and Visual Analytics, IITB-Monash Research Academy.**
Joint PhD: IIT Bombay, India and Monash University, Australia
Advisors: Venkatesh Rajamanickam, Tim Dwyer, Ulrich Engelke, Cecile Paris
Thesis (tentative): Deep user models for visual analytics
- 2015–2017 **M.Tech, Computer Science and Engineering, IIIT-Bhubaneswar, India.**
Advisor: Rakesh Chandra Balabantaray
Thesis: Query optimisation
- 2009–2014 **Integrated M.Sc., Applied Mathematics, Central University of Jharkhand, India.**
Advisor: Mukul Priyadarshi
Thesis: Application of Multilayer Neural Network with Backpropagation learning to predict Stock Exchange

Grants

- 2019–2020 SIGCHI Student Travel Grant for one SIGCHI-sponsored conference.

Service

- To the research and visualisation community
- 2019–Present **Data Visualization Society, Diversity Committee, Member**
- 2019–Present **IIT Bombay ACM SIGCHI Student Chapter, Chair**
- As a conference workshop organiser

2019 **What Indian HCI Doctoral researchers study?**

Amit Jena, Shimmila Bhowmick

Workshop at IndiaHCI'19 | <https://github.com/amitjenaiitbm/IndiaHCI2019>

—— As a conference program committee member

2020 India HCI Out-Of-India

2020 ACM CHI Late-Breaking Works

—— As a reviewer (for conferences)

2020 Interaction Design and Children (IDC)

2020 CHI Late-Breaking Works and Alt.CHI

2019 India HCI

2019 IEEE VR

2018 VRST

Teaching

Spring 2016 **Teaching Assistant** for B.Tech Lab, Operating System
IIIT-Bhubaneswar, India

Autumn 2016 **Teaching Assistant** for B.Tech Lab, RDBMS and Compiler Design
IIIT-Bhubaneswar, India

Skills

Technical skills

R, Python, JavaScript, CSS3, HTML5, D3.js, p5.js, Matlab, and \LaTeX

Design research skills

Experimental design, User research, and Usability evaluation

Design skills

Wireframing, Prototyping, and Visual communication

Publications

- [1] Christopher Collins, Natalia Andrienko, Tobias Schreck, Jing Yang, Jaegul Choo, Ulrich Engelke, Amit Jena, and Tim Dwyer. Guidance in the human-machine analytics process. *Visual Informatics*, 2(3):166–180, 2018.
- [2] Amit Jena, Chandra Balabantaray, et al. Query optimization using query sequence for hindi-english code-mixed query. In *2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (SCESM 2017)*, 2017.

- [3] Amit Jena and Rakesh Chandra Balabantaray. Semantic desktop search application for hindi-english code-mixed user query with query sequence analysis. In *2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)*, pages 930–934. IEEE, 2017.
- [4] Amit Jena, Ulrich Engelke, Tim Dwyer, Venkatesh Rajamanickam, and Cecile Paris. Uncertainty visualisation: An interactive visual survey. In *2020 IEEE Pacific Visualization Symposium (PacificVis)*. IEEE, 2020.