# 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.

**Lately**—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 IndiaHCl'19 | https://github.com/amitjenaiitbm/IndiaHCl2019

- As a conference program committee member
- 2020 India HCI Out-Of-India
- 2020 ACM CHI Late-Breaking Works
- As a reviewer (for conferences)
- 2020 Designing Interactive Systems (DIS)
- 2020 Interaction Design and Children (IDC)
- 2020 CHI Late-Breaking Works and Alt.CHI
- 2019 India HCI
- 2019 IEEE VR
- 2018 VRST

## **Teaching**

## Spring 2020 Co-Facilitator for Design Fabrication Workshop

https://info-design-lab.github.io/ma-dfworkshop/

IDC School of Design, IIT Bombay, India

## 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, Tableau, JavaScript, CSS3, HTML5, D3.js, p5.js, Matlab, and LATEX

## Design research skills

Design thinking, 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 (Pacific Visualization Symposium Symposium