Amit Jena

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Research interest

Broadly—Designing/building/evaluating user interfaces and information visualisations for the Emergent Users of Information and Communications Technology (ICTs).

Lately-Trying to investigate if "numbers and charts are a universal language".

I am interested in how people interpret visualisations, and how to design visualisations for the varied usage context and goals.

Employment

2018-Present Visualisation Designer, Freelancing.

Design: My projects include both web-based interactive visualisations, frequently using a storytelling technique to show insights into complex data and static visualisations that typically allow a bit more freedom in their design.

Analytics: I create dashboards for interactive data visualisation using Tableau.

Education

2017-Present Joint PhD, Data Visualisation and HCI, IITB-Monash Research Academy.

Affiliation: IDC School of Design, IIT Bombay, India and Faculty of IT, 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
2019–2020	IIT Bombay ACM SIGCHI Student Chapter, Chair
	As a conference workshop organiser
	Towards Designing Visualisations for the Emergent Users of ICTs
	Amit Jena, Seema Krishnakumar, Venkatesh Rajamanickam
	Workshop at IndiaHCl'20 https://amitjenaiitbm.github.io/vis4d/
2019	What Indian HCI Doctoral researchers study?
	Amit Jena, Shimmila Bhowmick
	$Workshop\ at\ India HCI'19\ \ https://github.com/amitjenaiitbm/India HCI2019$
	As a conference program committee member
2021	India HCI, Out-Of-India Chair
2021	ACM CHI Late-Breaking Works
2020	India HCI, Out-Of-India Chair
2020	ACM CHI Late-Breaking Works
	As a reviewer (for journals)
2020	International Journal of Child-Computer Interaction: Special Issue
	As a reviewer (for conferences)
2020	CHI Late-Breaking Works
2021	CHI: Full Paper
2020	IndiaHCI: Full Paper and SDC
2020	CHI PLAY
2020	Designing Interactive Systems (DIS)
2020	Interaction Design and Children (IDC)
2020	CHI Late-Breaking Works and Alt.CHI
2019	IndiaHCI: Full Paper
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, Git, GitHub, Tableau, JavaScript, CSS3, HTML5, D3.js, p5.js, Matlab, C, C++ and $\c \Delta T = X$

Design Tools

Figma, Sketch, Inkscape, Adobe XD, Illustrator

Design research skills

Design thinking, Experimental design, User research, and Usability evaluation

Design skills

Wireframing, Prototyping, and Visual communication

Publications

- 2021 Jena, Amit, Matthew Butler, Tim Dwyer, Kirsten Ellis, Ulrich Engelke, Reuben Kirkham, Kim Marriott, Cecile Paris, Venkatesh Rajamanickam. "The Next Billion Users of Visualization," in IEEE Computer Graphics and Applications, vol. 41, no. 2, pp. 8-16, March-April 2021, doi: 10.1109/MCG.2020.3044071.
- 2020 **Jena, Amit**, Ulrich Engelke, Tim Dwyer, Venkatesh Raiamanickam, and Cecile Paris. "Uncertainty visualisation: An interactive visual survey." In 2020 IEEE Pacific Visualization Symposium (PacificVis), pp. 201-205. IEEE, 2020.
- 2018 Collins, Christopher, 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, no. 3 (2018): 166-180.
- 2017 Jena, Amit, 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 RTEICT, pp. 930-934. IEEE, 2017.
- 2017 Jena, Amit, and Chandra Balabantaray. "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.