

Saugat Pandey

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🐙 Github in LinkedIn 🐦 Twitter

Education

- 2021–present **PhD, Computer Science & Engineering**, *Washington University in St. Louis*, Missouri, USA.
2017–2021 **Bachelor of Science, Computer Science & Mathematics**, *Beloit College*, Wisconsin, USA.

Research Experience

Visual Interface and Behavior Exploration Lab (VIBE) @ Washington University

November 2021 – present **Graduate Research Assistant.**

- Collaborate in the design and development of visualization tools, focusing on enhancing user data visualization skills and apply statistical analysis to investigate how human perception influences visualizations.
- Provide design guidelines to visualization experts for creating visualizations for effective communication.
- Conduct research on the application of visualizations in real-world scenarios, employing machine learning and computer vision techniques.

PI: Dr. Alvitta Ottley

The Brent Lab @ Washington University

August 2021 – October 2021 **Graduate Research Assistant.**

- Developed an automated tool to generate image masks for *Cryptococcus neoformans* images.
- Trained a convolutional-based deep model (CNN) using these masks.

PI: Dr. Michael Brent

Publications

In Conference Proceedings

- 2023 **Saugat Pandey** and Alvitta Ottley. Mini-vlat: A short and effective measure of visualization literacy. volume 42. *Computer Graphics Forum, Wiley Online Library (EuroVIS)*, 2023.
- 2023 **Saugat Pandey**, Oen G. McKinley, R. Jordan Crouser, and Alvitta Ottley. Do you trust what you see? toward a multidimensional measure of trust in visualization. *IEEE VIS*, 2023.

Workshop Papers

- 2022 Robert Kasumba, **Saugat Pandey**, Vishesh Patel, Micah Wolfson, and Alvitta Ottley. User engagement with covid-19 visualizations on twitter. *Visualization for Communication (VisComm), IEEE VIS*, 2022.

Awards & Honors

- May 2023 Earned **top 15-20% Departmental Honors** through annual review consensus at Washington University in St. Louis.
- March 2023 **Best Paper Award** for "Mini-VLAT: A Short and Effective Measure of Visualization Literacy" at EuroVIS 2023 (Leipzig, Germany).
- January 2020 **Walter S. Haven Physics/Astronomy Prize** at Beloit College, Wisconsin

Presentations

- May 2023 Presented paper titled "Mini-VLAT: A Short and Effective Measure of Visualization Literacy" at EuroVIS, 2023

October 2022 Presented paper titled "User engagement with covid-19 visualizations on twitter" at VisComm workshop (IEEE VIS), 2022

October 2018 Midstates Consortium for Math and Science, Washington University in St. Louis

Programming skills

Languages Python, JavaScript, R, JAVA, SQL

Libraries D3.js, Plotly.js, tensorflow, keras, PyTorch, scikit-learn, OpenCV

Other Tools MySQL, AWS, Git, Django, Flask, Tableau, Power BI

Service & Activities

May 2023 - Present **Consultant**, *The Biotechnology and Life Science Advising (BALSA) Group*.

May 2023 - Present **Social Chair**, *Association of Graduate Engineering Students*, Washington University in St. Louis.

2019 - 2021 **Co-Founder & President**, *Beloit Investment Club*, Beloit College.

Teaching Experience

2018 - 2021 **Undergraduate Teaching Assistant**, *Beloit College*.

Courses: Introduction to Object-Oriented Programming, Data Structure & Algorithms, Discrete Structures, Computer Architecture, and Physics 101