

Saugat Pandey

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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 **Graduate Research Assistant.**

2021 – present Improve user data visualization skills through the design and development of visualization tools, incorporating user visualization literacy, and conduct research on the application of visualizations in real-world scenarios utilizing computer vision techniques to comprehend human perception of visual data.

PI: Dr. Alvitta Ottley

The Brent Lab @ Washington University

August 2021 – **Graduate Research Assistant.**

October 2021 Developed an automated tool to create masks of *Cryptococcus neoformans* images using annotated files, and utilized these masks to train a convolutional-based deep model (CNN), enhancing image segmentation performance.

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, 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

- March 2023 Received **Best paper award** for paper titled "Mini-VLAT: A Short and Effective Measure of Visualization Literacy" at EuroVIS 2023
January 2020 Received **Walter S. Haven Physics/Astronomy Prize** at Beloit College, Wisconsin
2017 - 2021 Recipient of **Presidential Scholarship** to attend Beloit College, Wisconsin

Presentations

- October 2022 **Visualization for Communication (VisComm)** at IEEE Visualization, 2022
October 2018 **Midstates Consortium for Math and Science**, Washington University in St. Louis
August 2018 **Homecoming Student Days**, Beloit College, Wisconsin

Programming skills

Languages Python, JavaScript, R, JAVA, SQL
Libraries D3.js, Plotly.js, tensorflow, keras, PyTorch, scikit-learn, OpenCV
Other Tools MySQL, AWS, Git

Service & Activities

May 2023 - **Consultant**, *The Biotechnology and Life Science Advising (BALSA) Group*.
Present
May 2023 - **Social Chair**, *Association of Graduate Engineering Students*, Washington University in St. Louis.
Present
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