# Saugat Pandey

⋈ p.saugat@wustl.edu iamsaugatpandey.github.io 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 Graduate Research Assistant.

present

- 2021 O 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.
  - o Provide design guidelines to visualization experts for creating visualizations for effective communication.
  - Conduct research on the application of visualizations in real-world scenarios, leveraging cutting-edge AI/ML techniques such as Computer Vision and Large Language Models (LLM).

PI: Dr. Alvitta Ottley

## The Brent Lab @ Washington University

August 2021 - *Graduate Research Assistant*.

October 2021

- o 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

- 2024 R. Jordan Crouser, Syrine Matoussi, Lan Kung, Saugat Pandey, Oen G. McKinley, and Alvitta Ottley. Building and eroding: Exogenous and endogenous factors that influence subjective trust in visualization. IEEE VIS (In Submission), 2024.
- 2023 Saugat Pandey and Alvitta Ottley. Mini-vlat: A short and effective measure of visualization literacy. volume 42. Computer Graphics Forum, Wiley Online Library 7, 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 visualizatios 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

July 2022 - **Reviewer**, *VisComm 2022 & 2023 (IEEE VIS) & PacificVIS 2023*.

Present

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

Present

May 2024 - President, 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