

# Oen McKinley

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## Research Objectives

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PhD candidate in Computer Science specializing in data visualization and graphics with interest in AI/ML and LLMs, seeking internship opportunities for Summer 2026.

## Education

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**PhD, Computer Science**  
Aug 2022 – May 2027 (Expected)

Washington University in St. Louis

- Computer Science research with the VIBE Lab, working with Professor Alvitta Ottley.
- Coursework: Research Design, User Studies, AI/ML, Statistical Analyses, UI/UX, LLMs, Prototype Development, Algorithms.

**MS, Computer Science**  
Aug 2022 – May 2025

Washington University in St. Louis

- GPA: 3.91/4.0
- Coursework: Research Design, User Studies, AI/ML, Statistical Analyses, UI/UX, LLMs, Prototype Development, Algorithms.

**BA, Computer Science & Political Science**  
Aug 2015 – May 2019

Grinnell College

- GPA: 3.71/4.0
- Coursework: AI, Algorithms, Software Development, Chinese, Statistics.

## Publications

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### **Taking Truncation to Task: A Task-Based Exploration of Axis Truncation in Bar Charts**

**Oen McKinley**, Alvitta Ottley. *ACM CHI*, Apr 2026.

Performed user studies to demonstrate the nuanced effects of truncating the y-axis of bar charts.

DOI: 10.1145/3772318.3790617

### **Trustworthy by Design: The Viewer's Perspective on Trust in Data Visualization**

**Oen McKinley**, Saugat Pandey, Alvitta Ottley. *ACM CHI*, Apr 2025.

Generated key insights for visualization designers to better make trustworthy and effective data visualizations.

DOI: 10.1145/3706598.3713824

### **Exogenous and Endogenous Factors that Influence Subjective Trust in Visualization**

R. Jordan Crouser, Syrine Matoussi, Lan Kung, Saugat Pandey, **Oen McKinley**, Alvitta Ottley. *IEEE VIS*, Oct 2024.

Further investigated the role of personal differences in individual trust for data visualization.

DOI: 10.1109/VIS55277.2024.00069

### **Do You Trust What You See? Toward A Multidimensional Measure of Trust in Visualization**

Saugat Pandey, **Oen McKinley**, Alvitta Ottley. *IEEE VIS*, Oct 2023.

Presented a novel framework for understanding user trust in the context of data visualizations.

DOI: 10.1109/VIS54172.2023.00014

## Experience

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### PhD Candidate - VIBE Lab

Aug 2022 – Present, St. Louis, MO

Washington University in St. Louis

- Author research related to Data Visualization for publication in global conferences such as ACM CHI and IEEE VIS, primarily focused on effective communication and user trust.

### Assistant in Instruction - Introduction to Data Visualization

Aug 2025 – Dec 2025, St. Louis, MO

Washington University in St. Louis

- Hold lectures, studios, office hours, and meetings with students in the Introduction to Visualization course.
- Assist in lesson planning, grading, and material preparation for the course.

### Manager - Forms (prev. Software Engineer)

Jul 2019 – Dec 2022, Omaha, NE

Ease, Inc.

- Managed Forms Engineering team, automating benefits enrollment.
- Improved UI/backend integration for client-specific needs.

## Skills

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<b>Programming:</b>	Python, R, Java, C++, C#, JavaScript, HTML/CSS, PHP, Ruby
<b>General Tools:</b>	Git, VisualStudio, SQL, .NET, Anaconda, JIRA, Qualtrics, LaTeX, React, Node.js
<b>Research Tools:</b>	reVISit, Vega, Hugging Face Spaces, Pytorch, RStudio, pandas, matplotlib, ggplot
<b>Languages:</b>	English (Native), Mandarin Chinese (Working Proficiency), Vietnamese (Intermediate)