# Oen McKinley

m.oen@wustl.edu | (507) 301-4203 | oenmckinley.github.io | LinkedIn: oen-mckinley | GitHub: oenmckinley

## Research Objectives

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

**PhD, Computer Science**                                      Washington University in St. Louis
Aug 2022 – May 2027 (Expected)

- 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**                                       Washington University in St. Louis
Aug 2022 – May 2025

- 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**                                      Grinnell College
Aug 2015 – May 2019

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

## Publications

**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

**PhD Candidate - VIBE Lab**                                      Washington University in St. Louis
Aug 2022 – Present, St. Louis, MO

- Publish research related to Data Visualization, primarily focused on effective communication and user trust.
- Collaborate with fellow researchers in pursuit of research.

**Assistant in Instruction - Introduction to Data Visualization**      Washington University in St. Louis
Aug 2025 – Dec 2025, St. Louis, MO

- 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)**      Ease, Inc.
Jul 2019 – Dec 2022, Omaha, NE

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

## Skills

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