SODI E. KROEHLER

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Education

University of Pittsburgh – School of Computing and Information Pittsburgh, PA
M.S. in Computer Science student – 3.4 GPA *Aug 2023 – Dec 2025*
Concentration in Algorithmic Ethics, Political AI Applications

University of Pittsburgh – School of Computing and Information Pittsburgh, PA
B.S. in Computer Science student – 3.5 GPA *Jan 2020 – May 2023*
Partial Minor in Philosophy, focus on Ethics

Publications

"Automatic News Media Framing Inference by Ambivalence Mapping" Master's Thesis
Sodi Kroehler, Dr. Lorraine Li, Dr. Yuru Lin *Expected Dec 2025*
Accepted for poster presentation at the 2025 PolNet Conference held at Harvard – introducing a custom AI tool to automatically recognize frames in current news by identifying headlines where different users will likely disagree.

"Lessons Learned from Red Teaming a Newsbot" Analysis
Dr. Elise Silva, Madeline Franz, Sodi Kroehler *Published Jun 2025, Tech Policy Press*
Conducted comprehensive security and bias testing on a political information chatbot deployed during 2024 presidential election, identifying critical vulnerabilities in AI systems used for political information dissemination and exploring ways to resolve them.

Experience

Bank of New York Mellon Pittsburgh, PA
Intern(3mo), Associate Developer(1.5y), Full-Stack Developer(0.5y) *Jun 2022 – Jun 2025*
Primary AI developer for the global People team's HR chatbot (50k+ users); built custom orchestration and backend systems, drove all regulation and risk mitigation efforts, managed Jira board, led team calls with 50+ participants, and regularly participated in senior leadership calls (CEO-2 level)
Created a custom feedback summarization tool (in production) and led adoption of Oracle GenAI solutions for performance reviews and job matching
Spearheaded a department-wide AI hackathon and participated in a biweekly "reverse-mentorship" sessions to help expose senior management to AI
Rebuilt and relaunched idea submission tool (volunteered to enhance existing CEO initiative, still in production use) using Microsoft Power Platform; developed several advanced Power BI dashboards for HR planning and analytics
Developed Oracle HCM & OIC ETL integrations and frequently handled new security implementations for People team technical projects

South Sudan Rebirth Ministry Lancaster, PA
Director of IT *Feb 2022 – present*
Completely redesigned and updated their website, including functionality with the Aplos payment system

Extracurriculars

Lab Member – PICSO Computational Social Dynamics Lab **Pittsburgh PA, Sept 2024 – Present**
Principal Developer/Maintainer – CARDUI Python LLM Utility Library **June 2025 – Present**
Graduate Student Representative – School of Computing Budgetary Committee **Pitt, Oct 2023 – Present**
Principal Developer – Chitters Online Card Game **Sep 2020 - Present**
Pitt Computer Science Club – Research Officer **Pittsburgh, PA, Jan. 2021 – Apr 2021**
Alpha Kappa Psi – Director of IT **Pittsburgh, PA, Mar. 2021 – April 2023**
Publications Chair – SIGBOVIK **CMU, Jan 2022 – Present**