SARAH VAHLKAMP
RESEARCHER AND DATA ANALYST

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EXPERIENCE

HUMAN-AGENT TEAMING ON INTELLIGENCE TASKS RESEARCH ASSISTANT

2020 - Present
Apply **research design and development** skills to the development and implementation of a study focused on the use of **AI** in shift handovers.
Develop interview protocol and **conduct virtual interviews** with working and retired intelligence analysts to **inform the development** of a new research platform integrated with **Qualtrics** and MTurk.
Collect and **analyze data**.
Lead graduate and undergraduate research assistants.

DOD – WORKFORCE ANALYST; APPLIED RESEARCH

2014 - Present
Conduct **quantitative** and **qualitative** analysis of human capital data and **present recommendations** to senior leadership.

SUMMARY OF QUALIFICATIONS

Applied and academic researcher with experience in both qualitative and quantitative methodology. Curious about HCI and human-centered AI, especially in relation to creativity and the future of work. Praised for my customer-centric approach to requirements development and ability to find and present key insights to senior leadership. Conversant in several research methodologies, including survey methodology, contextual inquiry, and ethnographic research. Adept at recognizing effective methods that are appropriate to approach various questions.

SCIENTIFIC COMMUNICATION

Integrative Paper: Independent research focused on human-centered AI, creativity, and work.

HCIL Symposium (2022, May 26)
Author and presenter: *Considering Creativity in Artificial Intelligence and Work*
[Conference presentation]

Co-author and presenter: Paletz, S., *et al. The Invasion of Vorgaria: A Task and a Platform for Studying AI Supports of Team Cognition in Intelligence Shift Handovers*
[Conference presentation]

INGRoup (2021, Oct 27)
Co-author: Carter-Browne, B.M., *et al There is No "AI" in Teams: A Multi=Disciplinary Framework for AIs to Work in Human Teams*
[Conference Presentation]

Various presentations of human capital data and strategy to internal and external audiences comprised of a mix of experts and non-experts, often incorporating my own data visualizations, including dashboards.

RESEARCH SKILLS

Qualitative and Quantitative research methods and tools, including:

Content Analysis
Ethnographic Research
Contextual Inquiry
Structured and Semi-Structured Interviews
Survey Design and Methodology
Focus Group Preparation/Facilitation
Applied Behavior Analysis
Customer Requirements
Linear and Multiple Regression

Proficient: Tableau, Qualtrics, SQL, MTurk, R, data visualization, StackOverflow

Intermediate: Excel, Python, ATLAS.ti, Adobe Creative Cloud Suite, especially Illustrator, Premiere Pro, and Audition, Overleaf, SPSS

Cleared for access to Top Secret information

EDUCATION

Ph.D. candidate
2020 - 2024 (anticipated)
University of Maryland, College Park
HCI *Advised by Wayne Lutters and Susannah Paletz*
Research focus:
human-centered AI, creativity, and the future of work. Lab work focused on AI and shift-handover, ML to propel knowledge management sharing, team cognition demands like shared mental models, inaccuracy blindness , and transactive memory systems. Previous research experience in broader AI and teaming.

MASTER'S
2015 University of Maryland, Baltimore County
Industrial/Organizational Psychology
Completed I/o coursework including **descriptive and referential statistics**, analysis of variance, multiple regression, analysis of covariance, factor analysis, reliability analysis, instructional systems design, and **survey and assessment methodologies**. Used SPSS

2009 St. Mary's University, TX
International Relations

BACHELOR'S
2006 University of South Florida
International Studies