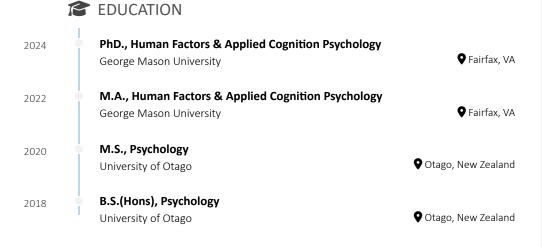
LIAM KETTLE, M.S.

Ph.D Candidate - User Experience Researcher



RESEARCH EXPERIENCE

Current | 2020

Graduate Research Assistant

George Mason University

🗣 Fairfax, VA

• Identified 29 key insights and recommendations for effective communication between autonomous vehicles and drivers through a systematic review of 31 articles and analyzing 8500+ comments across 128 participants.

2023 | 2023

Summer Research Assistant

George Mason University

Pairfax, VA

- Identified 5+ areas for improvement towards creating a testbed for human-machine teaming in space operations through conducting an experimental study with 20 participants.
- Analyzed quantitative measures using R to provide a proof-of-concept in support of future grants towards human-machine teaming.
- Collaborated with the United States Air Force Academy and mentored 2 cadets in end-toend research.

2020 | 2018

Researcher

University of Otago

- Otago, New Zealand
- Developed STI-SIM driving simulations and regressed behavioral changes on quantitative survey data of 100+ participants using SPSS to identify distinct youth driver risk factors across visibility conditions.
- Systematically identified 40+ crash contributing factors at rail level crossings across New Zealand and Australia through thematic analysis of investigation reports and Subject Matter Expert survey.

♣ TEACHING EXPERIENCE

2020 | 2018

Psychology Teaching Assistant

University of Otago

- Otago, New Zealand
- Taught over 70 undergraduate students across 3 class laboratories, graded 100% of student assignments, and provided constructive feedback for students
- Evaluated over 50 novel system designs across various applications of Human Factors and provided recommendations for future accident analyses.

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github.com/LiamKettle

UX METHODS

Experimental design

Survey development & design

User testing

User interviews

Usability evaluations

Hypothesis testing

Competitor analysis

Participant recruitment

Data visualization

STATISTICAL ANALYSES

ANOVA

Regression

Exploratory data analysis

Correlation

Psychometrics

Qualitative analysis

CODING / TOOLS

R

SPSS

SQL

Qualtrics

Made with the R packages **pagedown** and **datadrivency**.

The source code is available on github.com/LiamKettle/resume.

Last updated on 2023-10-06.

■ SELECTED PUBLICATIONS & PROCEEDINGS

Kettle, L., Herrera, K.M.G., Pithayarungsarit, P., Simpson, K.L., Sharifi, K., & Lee, Y-C. (Under Review). Exploring a Framework of Contextual Vehicle-Human Communication Features Across Driving Contexts to Enhance Situation Awareness and Trust N/A

Kettle, L., McCarty, M.M., Simpson, K.L., & Lee, Y-C. (Under Review). Impact of Monitoring Requests on Publics' Assignment of Blame and Praise towards Level 3-equipped Vehicles. N/A

Kettle, L., & Lee, Y-C. (2023). User Experiences of Well-being Chatbots. Human Factors

Kettle, L., & Lee, Y-C. (2022). Augmented Reality for Vehicle-Driver Communication: A Systematic Review. Safety

SELECTED AWARDS

- George Mason University Presidential Scholarship (2024)
- HFES Emerging Leader Program (2023)
- HFES Student Member with Honors (2023)
- University of Otago Master's Research Scholarship (2019)



PROFESSIONAL SERVICE & LEADERSHIP

Current 2022

Leadership Development Committee Member

Human Factors and Ergonomics Society

- Tasked with the further development of leadership resources and pathways into the organization
- Reviewed existing literature; conducted interviews to identify user needs

2023

HFES Host Committee Member

Human Factors and Ergonomics Society

• Organized events and activities for academic, industry, and government attendees for the HFES annual meeting

2022 2021

Student Chapter President

Human Factors and Ergonomics Society

- Elected leader for student chapter with 9 members and responsible for continuing active engagement with local and national organizations
- Organized 17 events including 10 guest speakers for information dissemination, recruitment, and mentorship