

JACOB STEFFEN

TNRB 787 Brigham Young University · Provo, UT 84602
jacob.steffen@byu.edu · (801) 422-5749

EDUCATION

- 2022 *University of Georgia, Terry College of Business*
- Ph.D., Management Information Systems
 - Dissertation: “Understanding the Effects of Generative Design Tools on Cognitive Design Processes”. Committee: Elena Karahanna (Chair), Nicholas Berente, Abdul Sesay, Aaron Schecter, John Gibson
- 2017 *Brigham Young University, Marriott School of Business*
- Master of Information Systems Management: Ph.D. Prep Emphasis
 - B.S., Information Systems

RESEARCH

- Interests *Autonomous Tools, Wearables, Mixed Reality, Interruptions, Online Ratings*
- Journal Publications *Steffen, J. H., Gaskin, J. E., Meservy, T. O., Jenkins, J. L., & Wolman, I. 2019. “Framework of affordances for virtual reality and augmented reality”. *Journal of Management Information Systems*, 36(3), 683-729.*
- Conference Publications *Ryan Schuetzler, Justin Giboney, Taylor Wells, Benjamin Richardson, Tom Meservy, Cole Sutton, Clay Posey, Jacob Steffen, Amanda Hughes. 2024 “Student Interaction with Generative AI: An Exploration of an Emergent Information-Search Process”. *Proceedings of the 57th Hawaii International Conference on System Sciences | 2024**
- Skousen, T., Steffen, J., Chandler, C., Rosengren, W., Gaskin, J., Meservy, T. 2022. “Asynchronous Video Interviews and Artificial Intelligence: A Multi-Study Exploration”. *International Conference on Information Systems 2022.**
- Sesay, A., & Steffen, J. 2020. “Wearables as augmentation means: conceptual definition, pathways, and research framework”. In *Proceedings of the 53rd Hawaii international conference on system sciences.**
- Steffen, J., Gaskin, J., Meservy, T., Jenkins, J. 2017 “The Missing Framework for Virtually Assisted Activities”. *International Conference on Information Systems 2017.**
- Gaskin, J., Jenkins, J., Meservy, T., Steffen, J., Payne, K. 2017. “Using Wearable Devices for Non-invasive, Inexpensive Physiological Data Collection”. *Proceedings of the 50th Hawaii International Conference on System Sciences**
- Works-in-Progress *Generative Design Patterns*
- Planned submission to JMIS special issue on January 15th
 - Coauthored with Elena Karahanna

An Exploration of Information Seeking Processes with Large Language Models

- Submission planned for MISQ with several other BYU professors and PhD Prep students

Framework of Affordances for Large Language Models

- Collaborative work with several other BYU professors and PhD Prep students

The Effect of Interaction Methods of Generative AI on Conceptual Understanding

- Gathered some pilot data over the summer, but it didn't pan out. Will run an experiment with Ryan Scheutzler and RAs this semester.

WEARABLE CONFIGURATIONS: GENERALIZED AFFORDANCES OF WEARABLES

- Planned development of an ECIS paper. Possible submission to EJIS.

IS 201 Chatbot Effect on Learning Substitution

- Planned collaboration this semester using James Gaskin's chatbot.

"Wearables as Augmentation Means: A Conceptual Framework and Mechanistic Pathways for Human Augmentation" with Abdul Sesay and Ronald Ramirez

- Planned submission to European Journal of Information Systems

"Online Ratings and Clinical Outcomes as Indicators of Surgeon Medical Quality" with Elena Karahanna and Xia Zhao

- Preparing for submission to Management Science fast track
- Writing, analyses completed. Finishing additional robustness checks

"Interruption Management: Interventions and the Role of Technology" with Elena Karahanna, Adela Chen, and Tanner Skousen

- Planned submission to MIS Quarterly

TEACHING

Interests:

Data Management, Programming, Data Analytics

Brigham Young University

Introduction to Management Information Systems (IS 201)

- Winter 2017
- 4.4 / 5.0

Introduction to Databases (IS 302)

- Fall 2022
- 4.5 / 5.0

University of Georgia

Project Management (MIST 5740S)

- Fall 2018
- 4.38 / 5.0
- Fall 2019
- 4.85 / 5.0

Data Management and Analytics (MIST 4610)

- Spring 2020
 - 4.68 / 5.0
 - 2020-2021 Outstanding Teaching Assistant Award

AWARDS & HONORS

- Outstanding Teaching Assistant Award, University of Georgia, 2020-2021
- AMCIS 2021 Doctoral Consortium
- ICIS 2021 Doctoral Consortium

SERVICE

Ad-hoc reviewer

- Journal of Management Information Systems
- Frontiers of Psychology
- Information, Communication and Society Journal
- Virtual Reality
- International Conference on Information Systems
- Americas Conference on Information Systems
- European Conference on Information Systems
- Pacific Asia Conference on Information Systems
- Hawaii International Conference on System Sciences
- European Conference on Information Systems

Review Coordination Volunteer

- International Conference on Information Systems 2020

OTHER EXPERIENCE

2015 - 2017

Software Engineer
Brevium, American Fork, UT

2014 - 2015

Special Projects Assistant
Dean's Office, Marriott School of Business, Provo, UT

2011 - 2013

Volunteer Representative
The Church of Jesus Christ of Latter-day Saints, Buenos Aires, Argentina

SKILLS

- SQL (T-SQL, MySQL)
- Python
- R
- Stata
- C#
- Experience in other languages (C++, Java, HTML/CSS)

· Spanish (conversational)