

# Presence and Artificial Intelligence (PAI) Lab

## About PAI Lab:

Inspired and guided by a Blue Sky workshop at the 2023 annual conference of the International Communication Association and an international “Meet the Lab” event in 2024, where I had the opportunities to moderate panels on which esteemed scholars like Sun Joo (Grace) Ahn, Autumn Edwards, James Cummings, Tony Liao, Jih-Hsuan Tammy Lin, Sunny Liu, Matthew Lombard, and Astrid Rosenthal-von der Pütten shared their invaluable experience of founding and managing research groups and spaces, I began to develop the Presence and Artificial Intelligence (PAI) Lab in July 2023. Echoing the pronunciation and significance of “ ”, the PAI Lab stands for its commitment to exploring infinite possibilities for non-recurring emerging technology research.

This PAI Lab aims at conducting research on users’ relationships with a range of presence-evoking technologies, including social robots, virtual humans, chatbots, virtual influencers, smartwatches, memes, virtual reality, and augmented reality. The lab also delves into topics such as explainable AI (XAI), Science and Technology Studies (STS), and ubiquitous computing.

Revolving around both the science and the methods of artificial intelligence, our lab seeks to conduct theoretically robust and methodologically innovative research, with the support of the technologies available in the lab space, including:

*Aldebaran Robot NAO V6*

*Double II Telepresence robot*

*Meta Quest Pro*

*UBTech Robot Alpha*

*Robot Eilik*

*Shimmer3 GSR+ Unit*

*iMotions eye tracking device*

Graduate students at the PAI Lab combine technology research with a variety of topics and contexts, including popular culture, public health, semiotics, and big data. Our lab members are:

Fanjue Liu (graduated Fall 2024)

Fanjue Liu is an assistant professor in digital technology and culture at Shanghai Jiao Tong University. She was a doctoral student at the University of Florida. Her research investigates how people perceive and interact socially with emerging technologies such as virtual humans. Specifically, she investigates how people use different psychological patterns to interact with virtual influencers, how the emergence of virtual influencers changes the dynamics of influencer marketing, and whether virtual influencers can be considered a viable substitute for human influencers.

Xiaobei Chen

Xiaobei Chen is a current PhD/MPH student with concentrations in health communication and epidemiology. Her research areas include (1) using emerging technologies as interventions for health professionals and patients, (2) examining the association between health technologies and disparities, and (3) exploring public health emergency communication on social media. In terms of the topics, she focuses on cancer, infectious

diseases, and empathic communication in healthcare.

Lynn Jiayue Li

Jiayue Lynn Li is a PhD student with a background in media, cultural, and communication studies. Her research interests span digital communication, human-computer/robot interaction, and critical media analysis from a phenomenological standpoint. Her current projects focus on how individuals interact with and make meanings from digital artifacts such as memes created by selfies and (dis)embodied robots, and how this shapes our understanding of the self, others, and the world.

Yunxiao Chen (Caitlyn) (graduated December, 2023; currently Ph.D. student at Boston University)

Yunxiao Chen (Caitlyn) was a Master's student and a teaching & research assistant at the College of Journalism and Communications, UF. She defended her thesis in October 2023. She is determined to being a Human-Computer Interaction scholar and user experience expert (design + research). Her future studies will broadly address the intersections of people, information, and technology. Currently, she is researching human attitudes and behaviors with emerging technologies, such as virtual reality and smartwatches. With a background in language and literature, Yunxiao is passionate about creative writing and has published some poems, short stories, and translations in China. As a "Cyberpunk" enthusiast, she aspires to do various art stuff on this theme. She will join the doctoral program in Emerging Media Studies at Boston University.

[Mengsu Shi]

Mengsu Shi is an external research assistant at the lab. She received a M.A. in Communication from Tsinghua University and a B.A. in Advertising from Zhejiang University. Her research primarily utilizes quantitative empirical methods to explore human-machine communication and media psychology. Her Master's thesis experimentally investigated the impact of generative AI on human's sense of meaning in creative tasks. Alongside her research at the PAI Lab, Mengsu works at GeekPark, a leading tech innovation community. This role immerses her in the forefront of AI applications, AI hardware, and embodied intelligence, providing continuous industry firsthand insights. Her unique position, bridging rigorous academic inquiry with cutting-edge industry developments, enriches her exploration of the multifaceted human-AI relationship.

Loren Ruffin (graduated May, 2023; currently content designer at Uber)

Loren Ruffin was a Professional Master's student in the CJC and completed an M.A. in Mass Communication. Prior to attending UF, she received a B.S. in Communication, with a concentration in Journalism, from East Carolina University. Her study interests included human-machine communication, digital user experiences, and diversity, equity, and inclusion in digital products. As part of her capstone project, she designed and programmed a virtual reality vocabulary game focused on accessibility specifically for deaf and hard-of-hearing users. Post-graduation she is currently a content designer for Uber's Safety UX team, helping to design experiences that aim to keep earners and consumers safe on the app.