

ANDREA L. RIVERA

Ph.D. Candidate in Information Technology Management
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Professional Summary

Military veteran currently pursuing a Ph.D. in Information Technology Management, conducting research in the field of Responsible AI design. Professional experience spans a diverse range of areas, including university-level lecturing, nuclear engineering, radiological emergency planning, and military intelligence and operations. Educational background includes a Master of Science in Applied Mathematics, Master of Business Administration, and certification as a Naval Nuclear Power Engineer. Past and current research interests include: Embedding responsible AI principles into the algorithms, affordances, and architectures of new AI agents; designing real-time decision support systems for crisis management; and assessing the impact of white noise on algebraically generated low-density parity-check coding matrices.

Education

University of Hawai'i PhD in Business Administration Information Technology Management Shidler College of Business Honolulu, Hawai'i GPA: 4.0	Scheduled Graduation: May 2025
University of Florida Master of Business Administration Warrington College of Business Gainesville, Florida GPA: 3.93	2020
Naval Nuclear Power School Advanced Nuclear Power Certification Charleston, South Carolina GPA: 3.43 Graduated with distinction	2010
San Diego State University Master of Science in Applied Mathematics Emphasis: Communication and Information Systems San Diego, California GPA: 3.94 Thesis Title: "Cycles in LDPC Codes"	2006

Academic Experience

Instructor Information Technology Management Shidler College of Business University of Hawai'i	2024-present
University of Hawai'i Graduate Assistant and Lecturer Shidler College of Business Honolulu, Hawai'i	2021-2024

Information Systems for the Global Environment (BUS 311)

Summer 2024, Spring 2024, Summer 2023 (online)

Statistical Analysis for Business Decisions (BUS 310)

Fall 2023 (two sections), Spring 2023, Fall 2022

Broward College

2019

Adjunct Math Instructor

Introduction to Algebraic Methods (two sections, Fall 2019)

Fort Lauderdale, Florida

San Diego State University

2005-2006

Graduate Teaching Assistant

Calculus I (MATH 150) (Fall 2005, Spring 2006)

San Diego, California

Professional Experience

Radiological Emergency Planning Specialist

2022

Pearl Harbor Naval Shipyard

Honolulu, Hawai'i

U.S. Navy Surface Warfare Officer in Nuclear Power

2006-2012

USS Enterprise (CVN-65)

2010-2012

Reactor Electrical Division Officer

Military Rank: O-3

Norfolk, Virginia

Naval Nuclear Power Training Command

2009-2010

Student

Military Rank: O-2

Charleston, South Carolina

USS Crommelin (FFG 37)

2007-2009

Combat Information Center & Intelligence Officer

Military Rank: O-1

Pearl Harbor, Hawai'i

Naval Officer Candidate School

2006-2007

Pensacola, Florida

Awards & Certifications

Awards: Shidler College of Business Teaching Award (2023), Shidler College of Business BBA Professor of the Semester for a Business Core Course (Fall and Spring, 2023), Commanding Officer's Leadership Award (Naval Nuclear Power School), Navy/Marine Corps Achievement Medal (2), Navy Commendation Medal, Sea Service Deployment Ribbon (2), National Defense Service Medal, and Global War on Terrorism Service Medal.

Certifications: Surface Warfare Officer, Nuclear Engineering Officer, Nuclear Propulsion Plant Watch Officer, Engineering Officer of the Watch, Combat Information Center Watch Officer, Operational Water Chemistry and Radiological Controls certification, Officer of the Deck (Underway and In-port), and Combat Systems Training Team member.

Published Papers and Papers Under Review

Rivera, A., Abhari, K., Xiao, B. (2023). Virtue by design: The authenticity-control-transparency framework for responsible AI design. Under review in *Journal of the Association for Information Systems*.

Rivera, A. & Bui, T. (2024). Design considerations for a crisis communication support system: Some supporting evidence from the Navy's Red Hill Fuel Leak at Pearl Harbor. *Conference on Group Decision and Negotiation and International Conference on Decision Support System Technology*.

Rivera, A. & Bui, T. (2023). A design thinking approach to responsible crisis communication. *ICIS 2023 TREQ*. 82.
https://aisel.aisnet.org/treos_icis2023/82

Consortia

Doctoral Consortium, Academy of Management Annual Meeting (CTO Division), 2024

Memberships

Association for Information Systems

Academy of Management

Service & Volunteer Work

Hawaii International Conference on Systems Sciences (HICSS): Volunteered to support conference registration in 2023 and 2024.

The Keiki Birthday Paina: Provide monthly birthday parties for local Hawaiian homeless children. Prepare food, gifts, games, and activities for children and their families in West Oahu.