# ANDREA L. RIVERA

Ph.D. Student in Information Technology Management
Shidler College of Business
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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**                                        **Scheduled Graduation: May 2025**
PhD in Business Administration
Information Technology Management
Shidler College of Business
Honolulu, Hawai'i
GPA: 4.0

**University of Florida**                                                                            **2020**
Master of Business Administration
Warrington College of Business
Gainesville, Florida
GPA: 3.93

**Naval Nuclear Power School**                                                                       **2010**
Advanced Nuclear Power Certification
Charleston, South Carolina
GPA: 3.43
Graduated with distinction

**San Diego State University**                                                                       **2006**
Master of Science in Applied Mathematics
Emphasis: Communication and Information Systems
San Diego, California
GPA: 3.94
Thesis Title: "Cycles in LDPC Codes"

## Academic Experience

**University of Hawai'i**                                                                    **2021-present**
Graduate Assistant and Lecturer
Shidler College of Business
Honolulu, Hawai'i

    **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 TREO*. 82. https://aisel.aisnet.org/treos_icis2023/82