ROBERT THOMAS LATTUS

rthomaslattus@gmail.com | Citizenship: United States of America

Primary Research Fields: wireless communications & networking, distributed multi-agent cooperation, reinforcement learning

EDUCATION

The University of Florida
Ph.D. - Electrical & Computer Engineering — 2022 - Current
Chair: Dr. John M. Shea
Co-Chair: Dr. Tan F. Wong
Track: Signals & Systems

The University of Florida
M.S. - Electrical & Computer Engineering — 2024

Arizona State University
B.S.E. - Electrical Engineering — 2022
Summa Cum Laude
Barrett, the Honors College

PEER REVIEWED PUBLICATIONS

Robert. **T**. **Lattus** and John. M. Shea, "Multi-Agent Data Collection and Delivery Under Intermittent Sensing with Deep Reinforcement Learning," *WCNC 2026 IEEE Wireless Communications and Networking Conference*, Kuala Lumpur, Malaysia, 2026 (accepted)

Robert. **T**. **Lattus** and John. M. Shea, "Proximal Policy Optimization for Coordination of Distributed Agents in a Cooperative Jamming Scenario," *ICNC 2026 IEEE International Conference on Computing, Networking, and Communications*, Maui, Hawaii, United States, 2026 (accepted)

Robert. **T**. **Lattus** and John. M. Shea, "Multi-Agent Data Collection with Distributed Stochastic Coordination for Wireless Data Delivery," *ICMLCN 2025 IEEE International Conference on Machine Learning for Communication and Networking*, Barcelona, Spain, 2025

Dr. Patricia Solís, Dr. Gautam Dasarathy, Dr. Pavan Turaga, Alexandria Drake, Kevin Jatin Vora, Akarshan Sajja, Ankith Raaman, Dr. Sarbeswar Praharaj & **Robert Lattus** (2021) Understanding the Spatial Patchwork of Predictive Modeling of First Wave Pandemic Decisions by US Governors. *Geographical Review*

PRESENTATIONS AND INVITED LECTURES

Ph.D. Oral Exam, "Survey on Coordination in Multi-Agent UAV Jamming Scenarios", Herbert Wertheim College of Engineering, University of Florida, August 2024.

Program Review, "Coordination of Distributed Agents through Stochastic Policies in a Cooperative Jamming Scenario", AFOSR Center of Excellence, May 2024.

Research Symposium, "Finding and Predicting Defects in CIGS Cells Using Varied Temperature and Spectroscopy", FURI Symposium, Spring 2020.

Research Symposium, "Finding and Predicting Defects in CIGS Cells Using Varied Temperature and Spectroscopy", FURI Symposium, Fall 2019.

RESEARCH EXPERIENCE

Research Assistant, Wireless Networking Group, The University of Florida 2022-present
Advisor: Dr. John M. Shea

- ∉ Autonomous multi-agent control, wireless communications, reinforcement learning, software defined radios, wireless jamming, signal processing

Undergraduate Thesis, Barrett, the Honors College–Arizona State University 2021
Advisors: Dr. Gautam Dasarathy, Dr. Visar Berisha

- ∉ "Characterizing the Performance of Machine Learning Algorithms: A Study and Novel Techniques"

Undergraduate Researcher, Arizona State University, Tempe, AZ 2020 - 2021
Advisor: Dr. Gautam Dasarathy

- ∉ Predictive modeling for the COVID-19 pandemic

Undergraduate Researcher, Arizona State University, Tempe, AZ 2019 - 2020
Advisor: Dr. Michael Goryll

- ∉ Finding and Predicting Defects in CIGS Cells Using Varied Temperature and Spectroscopy

INDUSTRY EXPERIENCE

Schweitzer Engineering Laboratories, Engineering Intern January 2022-August 2022

Intel Corporation, EMC Engineering Intern, May 2021-August 2021

Intel Corporation, EMC Engineering Intern, June 2020-August 2020

COMMITTEES, HONORS, AND AWARDS

Committee Member 2024, 2025
Honors & Awards Committee
Herbert Wertheim College of Engineering, University of Florida

Dean's Research Award 2022-2026
Herbert Wertheim College of Engineering, University of Florida

Moeur Award 2022
Arizona State University

President's Award 2018-2022
Arizona State University

Dean's List 2018-2022

Fulton Undergraduate Research Initiative (FURI) 2019-2020
Ira A. Fulton Schools of Engineering, Arizona State University

EPICS Elite Pitch Competition 2019
Ira A. Fulton Schools of Engineering, Arizona State University

Andy Grove Scholarship 2019

TEACHING EXPERIENCE

Supervised Teacher – Stochastic Methods 1 2025
Herbert Wertheim College of Engineering, University of Florida

Undergraduate Teaching Assistant – Signals & Systems 1 2021
Ira A. Fulton Schools of Engineering, Arizona State University

EXTRACURRICULAR PROJECTS

Bridge2Africa – Research Chair, Hardware Developer 2019-2021
EPICS at Arizona State University

PROFESSIONAL CLUBS AND AFFILIATIONS

Engineering Graduate Student Council 2022-present
- Secretary (05/2023-05/2024)

Fulton Ambassadors 2018-2022
- Tour Director (04/2019-04/2020)

LANGUAGES

English: Native Language

French: Novice Listener, Novice Speaker, Intermediate Reading and Writing

Spanish: Novice Listener, Novice Speaker

TECHNICAL SKILLS

Artificial Intelligence: Reinforcement Learning, Deep Reinforcement Learning, Neural Networks

Programming: Python, Java, C++, MATLAB, Linux

Applications: AMD Vivado, AMD Vitis, Intel Quartus Prime, LTSpice, Cadence Virtuoso, LabVIEW

REFERENCES

Dr. John M. Shea, Professor
Herbert Wertheim College of Engineering
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Dr. Tan F. Wong, Professor
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