Updated in March 2026

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EDUCATION

University of Florida, PhD – Electrical & Computer Engineering
Lab: Florida Institute of National Security (FINS) & Applied Artificial Intelligence Group (AAIG)
Gainesville, FL
GPA: 3.77 (4.0)
Expected Graduate: Summer 2026
Committee: Damon L. Woodard, Domenic Forte, Janise McNair, Bonnie Dorr

University of Florida, MS – Electrical & Computer Engineering
Gainesville, FL 2026
GPA: 3.77 (4.0)

University of Florida, Graduate Certificate – Machine Learning (ECE)
Gainesville, FL 2025

University of Florida, MA – Economics
Specialize: Industrial Organization, Financial Economics
Gainesville, FL 2024
GPA: 3.77 (4.0)

EMPLOYMENT

University of Florida (UF)
Instructor/Graduate Assistant 2022 – Present

Florida International University (FIU)
Adjunct Instructor 2020
Coca-Cola Professorship Research Assistant 2019 – 2020

SELECTED WORK

1. **Pan, T.,** Woodard, D. (2026). GeoLAN: Geometric Learning of Latent Explanatory Directions in Large Language Models. *Under Review.* Available Online.

2. **Pan, T.,** Wormald, S., Woodard, D. (2026). From Kakeya to Kernels: A Multi-Scale Geometric Framework for Robust Representation Learning. *Under Review.* Available Online.

3. Wormald, S., **Pan, T.,** Woodard, D., Forte, D. (2026). Exploring weightless neural networks: From logic gates to convolutional lookup tables. *Under Review.* Available Online.

4. **Pan, T.,** Shal-bar, T., Azis, B., Forte, D., Woodard, D. (2026). PHBF: A Persistent Hierarchical Bloom Filter for Semantic Search in High-Dimensional Streaming Data. *Under Review.*

5. **Pan, T.,** Bhandarkar, A.C., Cole, A.J., Wilson, R., Woodard, D. (2026). ViLID: Unmasking Multimodal Misinformation via Rationale-Enhanced Inconsistency Detection. *Under Review.*

6. **Pan, T.,** Dizon-Paradis, O., Woodard, D. (2026). Multimodal Co-Training with Subtractive Unlabeled-Benefit Bounds. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2026).*

7. **Pan, T.,** Yang, Q., Cole, A.J., Wilson, R., Woodard, D. (2026). Psychology of Phishing Emails: Quantifying Persuasion Principles and Simulating Detection with Large Language Models. *Expert Systems with Applications, 131507.*

8. **Pan, T.,** Zhu, M., Cole, A.J., Wilson, R., Woodard, D. (2025). Lyapunov-Stable Adaptive Control for Multimodal Concept Drift. *39th Conference on Neural Information Processing Systems (NeurIPS 2025).*

9. **Pan, T.,** & Woodard, D. L. (2025). Efficient Generalization via Multimodal Co-Training under Data Scarcity and Distribution Shift. *The 42nd ICML Conference Affinity Workshop New In ML.*

10. Jia, S., **Pan, T.,** Shan, G. (2025, August). Insiders Take Longer, Retail Hits Harder: Organizational Predictors of Data Breach Outcomes. In *Proceedings of 59th Annual Hawaii International Conference on System Science (HICSS)*.

11. Swarup, A., Bhandarkar, A., Wilson, R., **Pan, T.,** & Woodard, D. (2025, August). From Syntax to Semantics: Evaluating the Impact of Linguistic Structures on LLM-Based Information Extraction. In *Proceedings of the 1st Joint Workshop on Large Language Models and Structure Modeling (XLLM 2025)* (pp. 36-48).

12. Swarup, A., **Pan, T**., Wilson, R., Bhandarkar, A., & Woodard, D. (2025, January). LLM4RE: A Data-centric Feasibility Study for Relation Extraction. In *Proceedings of the 31st International Conference on Computational Linguistics (COLING)* (pp. 6670-6691).

13. Yang, Q., **Pan, T.,** Cole, A.J., Wilson, R., Woodard, D. (2025). Accuracy, Feature Interpretability, and Usability of LLMs in Phishing Email Detection. *Under Review.* Available Online.

PATENT

1. Woodard, D., Forte, D., **Pan, T.** (2026). Cognitive Embedded Real-Time Evaluation and Behavioral-Recognition Observer (CEREBRO): A Multimodal Remote Side-Channel Monitoring System with On-Device AI Inference, Secure Communication, Adaptive Sampling, and Lyapunov-Stable Adaptive Fusion Control for Real-Time Attack Detection, Predictive Maintenance, and Dynamic Threat Response. (**Status:** Provisional).

2. Woodard, D., **Pan, T.** (2025). Lyapunov-Stable Control for Multimodal Learning System Adaptation to Concept Drift. (**Status:** Provisional).

3. Woodard, D., **Pan, T.** (2025). MACO: Multimodal Agreement-Aware Co-Training with Dual-Threshold Pseudo-Labeling, Geometric Convergence, and Generalization Guarantees. (**Status:** Provisional).

4. Woodard, D., **Pan, T.,** Forte, D. (2025). Multimodal Retrieval-Augmented Generation System for Creative Production (MuseRAG): Cross-Modal Indexing, Generative Retrieval/Re-Ranking, and Attributed Output. (**Status:** Provisional).

BOOK CHAPTER

1. Dizon-Paradis, O., Capecci, D., **Pan, T.,** Fu, RJC., Woodard, D. (2024). Machine Learning in Marketing Research: A Case Study of Cruise Tourism. *AI, ML, ROBOT APPLICATIONS IN HOSPITALITY BUSINESSES*. ISBN: 979-8-7657-8381-8.

2. **Pan, T.,** Fu, RJC. (2024). Seasonal Time Series Forecasting in the Hospitality Industry: A Novel Model of Data Decomposition with Machine Learning. *AI, ML, ROBOT APPLICATIONS IN HOSPITALITY BUSINESSES.* ISBN: 979-8-7657-8381-8.

GRANTED PROJECT

1. Woodard, D. (PI), Bursztein, E. (Co-PI), **Pan, T. (Co-PI).** (2024). SaTC: CORE: Small: GOALI: Predicting and Labeling Email Phishing from Social Influence Cues and User Characteristics. *National Science Foundation (NSF), US.*
   Awarded: $500,000

** More experience with government grant and funding applications can be shared upon request.*

ACADEMIC HONORS AND AWARDS

Herman W. Schnell Memorial Endowed Scholarship and Fellowship, **UF**	2024
EFTI Selected White Paper Travel Fund, **UF**	2023
Dr. Linda Thornton Endowed Scholarship, **UF**	2023
Certificate of Outstanding Merit, **UF**	2022
EFTI's Gefen Innovation Research Award, **UF**	2021 – 2022
Coca-Cola Professorship Research Assistant Award, **FIU**	2020 – 2021
South Beach Wine and Food Festival Scholarship Award, **FIU**	2018 – 2019
WorldsAhead (President) Award, **FIU**	2019
Dean's List Award, **FIU**	2017 – 2019
Teaching/Research Assistant Scholarship Award, **FIU**	2018 – 2019

COURSE TEACHING

University of Florida

EEE 6512/EEE4930 Image Processing and Computer Vision (Spring, 2026)	*TA & Co-instructor*
EEE 6825 Pattern Recognition and Intelligent Systems (Fall, 2025)	*TA & Co-instructor*
EEE 6512 Image Processing and Computer Vision (Spring, 2025)	*TA & Co-instructor*

PROFESSIONAL AND COMMUNITY SERVICES

NeurIPS Conference 2026 ***Reviewer***	2026
ICML Conference 2026 ***Reviewer***	2026
AAAI Conference on Web and Social Media (ICWSM) 2026 ***Reviewer***	2026
AAAI Conference 2026 ***Reviewer***	2025
IEEE International Conference on Automatic Face and Gesture Recognition ***Reviewer***	2024 – Present
Scientific Reports – Nature ***Reviewer***	2024 – Present

PROFESSIONAL MEMBERSHIPS

ACL – Association for Computational Linguistics
ACM – Association for Computing Machinery
IEEE – Institute of Electrical and Electronics Engineers
INFORM – The Institute for Operations Research and the Management Sciences
- Decision Analysis Society
- Analytics Society
- Computing Society

ASQ – American Society of Quality
AAAS – American Association for the Advancement of Science

ADDITIONAL INFORMATION

Language: Chinese (Native), Cantonese (Native), English (Advanced)
Software Skills:
Latex, Python, R, MATLAB, SPSS, AMOS, SAS, Linux, Canvas, Slurm, Cloud Computing, Microsoft Office