

Tina Tran

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Research Interests: Computer Vision, Machine Learning, Artificial Intelligence, Transformers,
Neural Networks, Reinforcement Learning, Remote Sensing, Inverse Problems

Education

Burnett Honors College, University of Central Florida Orlando, FL
B.S. in Computer Science, Mathematics Minor GPA: 3.77 from Aug 2022 to May 2025
Coursework: Data Structures, Computer Vision, Modeling and Simulation Math
Awards: Provost Scholarship, President's Honor Roll 2022, Dean's List 2023-Present
Cornell University, online certificate in Machine Learning Foundations Aug 2024
NASA Proposal Writing and Evaluation Experience, certificate of completion Aug 2024
NASA L'SPACE Program, Siemens NX Skill Badge Aug 2024
Coursera, Databases: Relational Databases and SQL from Feb 2023 to Mar 2023
Coursera, Machine Learning Specialization from Sep 2022 to Nov 2022
University of Central Florida, Certificate of Research Readiness Aug 2022

Research Experience

from May 2024 *Improving Visual Perception in Multimodal Video Models*
University of Central Florida, Center for Research in Computer Vision
Dr. Mubarak Shah, Joseph Fiorese

from Aug 2023 *Music Recommendation Using Exemplars and Contrastive Learning*
to Apr 2024 University of Central Florida, Department of Computer Science
Thesis Chair: Dr. Rickard Ewetz

from Jan 2023 to *A Reinforcement Learning Method for Solving the Inverse Acoustic Scattering*
May 2024 *Problem for a Sound-Soft Obstacle*
University of Central Florida, Department of Mathematics
Faculty Mentor: Dr. Carlos Borges

Presentations

Tran, Tina, Fiorese, Joseph and Shah, Mubarak. (2024, Sep 29) *OG-LMM: Object Grounding Large Multimodal Model -- Perception Test Challenge Solution for the Grounded Video Question-Answering Task* [Oral Presentation]. European Conference on Computer Vision (ECCV) 2024, Milan, MI, Italy.

Tran, Tina. (2024, Mar 27) *Expandable Music Recommendation using a Joint Embedding Space* [Poster Presentation]. Student Scholar Symposium (SSS) 2024, Orlando, FL, United States.

Tran, Tina. (2024, Feb 17) *A Reinforcement Learning Method for Solving the Inverse Acoustic Scattering Problem for a Sound-Soft Obstacle* [Poster Presentation]. Florida Undergraduate Research Conference (FURC) 2024, Jacksonville, FL, United States.

Tran, Tina. (2024, Feb 17) *Expandable Music Recommendation using a Joint Embedding Space* [Poster Presentation]. Florida Undergraduate Research Conference (FURC) 2024, Jacksonville, FL, United States.

Tran, Tina. (2023, July 21). *A Reinforcement Learning Method for Solving the Inverse Acoustic Scattering Problem for a Sound-Soft Obstacle* [Poster Presentation]. 2023 University of Central Florida Summer Poster Showcase, Orlando, FL, United States.

Publications

Fisher, Tyler, and Tran, Tina. "Will Artificial Intelligence Generate a Kurdish Utopia or Dystopia." *The Kurdish Globe*, No. 586, p. 10, 13 May 2024.

Tran, Tina, "Music Recommendation Using Exemplars and Contrastive Learning" (2024). *Honors Undergraduate Theses*. <https://stars.library.ucf.edu/hut2024/97/>.

Volunteer Work

Break Through Tech

New York, NY

Volunteer Student Ambassador

from Sep 2024

- Sharing experience as an AI/ML Fellow at Break Through Tech and exposing other talented students to this opportunity by participating in an informational webinar, posting social media updates, and contacting relevant courses and clubs at UCF.

STRONG-AI

Orlando, FL

Peer Mentor

from Aug 2024

- Responsible for advising a mini-cohort of five STRONG-AI scholars by giving class advice and help, sharing opportunities, and guiding low-income transfer students towards an academic lifestyle.
- Provide proactive support to the scholars by planning meetings, checking-in on students weekly, and holding open office hours.

Burnett Honors College

Orlando, FL

Honors Undergraduate Thesis Information Session Presenter

Apr 2024

Honors Undergraduate Thesis Research Presenter at Scholars Day

Mar 2024

- Tran, T. (2024, Mar 2) *Expandable Music Recommendation using a Joint Embedding Space* [Poster Presentation]. University of Central Florida Burnett Honors College Scholars Day 2024, Orlando, FL, United States.

Reach Out Recovery

Sarasota, FL

Volunteer Project Lead on Article Writing

Mar 2023

- Tran, T. (2023, March 27). *What Makes You Healthy Contest Winner Reports*. Reach out Recovery. <https://reachoutrecovery.com/what-makes-you-healthy-contest-winner-reports/>

Sarasota Tree Advisory Council

Sarasota, FL

Board Member for the Sarasota Tree Advisory Council

from Jul 2019 to Dec 2020

- Advertised and participated in the 2020 Treequest, a fact hunt on native Floridian Trees.

Professional Experience

ConversAltionELLE

Orlando, FL

Scrum Master, LLM Researcher and Developer

from Aug 2024 to May 2025

- Appointed Scrum Master to organize a 6 student team on a year-long Senior Design class project to develop an LLM chatbot aimed to teach Spanish/Portuguese.
- Instructor check-in presentation used as a template for future classes.

Latitude AI

Pittsburg, PA

Break Through Tech Fellow

from Aug 2024 to Apr 2025

- Implementing PointBEV in the autonomous vehicle perception context for Latitude AI.

Break Through Tech AI

New York, NY

AI/ML Fellow

from May 2024 to Apr 2025

- Selected from 3000+ applicants for a year-long fellowship program designed to support women and other underrepresented people in AI, ML, and Data Science.
- Earned a Machine Learning Certificate with Cornell faculty. Currently participating in experiential learning experiences, and receiving mentorship from industry professionals.

NASA NPWEE

Phoenix, AZ

Student

from May 2024 to Aug 2024

- Invested 107 hours to learn the proposal writing process including engaging in a proposal review board and organizing a subteam of 3 in researching, writing, and editing.
- Earned NX Skill Badge for Siemens NX CAD Software.

Clare Controls (Subsidiary of Resideo)

Sarasota, FL

Software Engineering Intern

from May 2023 to Jul 2023

- Boosted sprint progress by completing 2 demos on UI changes and reporting 8+ bugs.
- Directed creation of an events documentation website by writing 220+ lines of Python and 75+ queries from Redash Data Lake.

SwampHacks IX Hackathon

Gainesville, FL

Backend developer

Jan 2023

- Contributed a content-based video game recommendation system using scikit-learn.

Multus Medium

Orlando, FL

Song Recommendation Lead

from Sep 2022 to Sep 2023

- Analyzed 7+ research papers on state-of-the art AI recommendation methods.
- Led a sub team of 4+ students to construct a user-based system.

Google Developer Student Club

Orlando, FL

Member

from Aug 2022

- Created a web scraping program in Python using BeautifulSoup and selenium libraries.
- Developed a simple miniDiscord program with Golang.

Skills

Computer Languages: Golang, SQL, C, Java, Python, JavaScript

Computer Frameworks: PyTorch, Scikit-learn

Electric Bass

Self-taught Player

from Aug 2024

Kung Fu

Bradenton, FL

Brown Belt

from Jul 2019

- 26th Annual International Chinese Martial Arts Championship Competitor Jun 2024
- Class Da Zhan Chuan and Mirrored San Liu Chuan Demonstration Feb 2024
- Mirrored San Liu Chuan Demonstration Dec 2023

Trumpet

Osprey, FL & Orlando, FL

Player

from Aug 2017

- Member of the UCF University Band from Jan 2023 to May 2023
- Member of the UCF Concert Band from Aug 2022 to Dec 2022
- 1st Chair in the Pine View Wind Ensemble from Aug 2021 to May 2022

Honors / Awards

Second Place in The Second Perception Test Challenge, Grounded Video QA Task Sep 2024

Bronze Medal in Traditional Northern Hand Form, Advanced Women (18-35) Jun 2024

Evolutionary Complexity (EPlex) Research Group Scholarship Jun 2024

Office of Undergraduate Research FURC Travel Award Feb 2024

Dean's List for Fall 2023 Jan 2024

Tau Beta Pi Member	Nov 2023
Honors Undergraduate Thesis Scholarship	Oct 2023
Research and Mentoring Program	Oct 2023
Summer Undergraduate Research Fellowship, Track 1	May 2023
Dean's List for Spring 2023	Sep 2023
Martin Plaehn Scholarship Recipient	May 2023
Golden Key Honor Society Member	Feb 2023
President's Honor Roll for Fall 2022	Feb 2023
Phi Eta Sigma Honor Society Member	Jan 2023
Knights of Distinction Member	Jan 2023
Top 30 Contestant at Buckeye Programming Competition	Oct 2022
Contestant at Mount Allison Programming Showdown	Sep 2022
Final Round Contestant at UCF Local Programming Contest	Aug 2022
Provost Scholarship Award Recipient	Aug 2022
Florida Bright Futures Academic Scholar	Aug 2022
2022 Launching Leaders in the Arts Competition Winner	Apr 2022
National Merit Commended Student	Sep 2021
2021 Rotary Healthy Teens Art/Media Competition Runner-up	Sep 2021