Vicente Amado Olivo

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Education

Michigan State University, East Lansing, MI   2021–2026 (expected)
- Pursuing Ph.D. in Department of Computational Mathematics, Science, and Engineering
- Advisor: Prof. Wolfgang Kerzendorf

Michigan State University, East Lansing, MI   2017–2021
- BA, Finance. GPA: **3.85/4** – via 149 credits

Experience

European Space Agency - Science Directorate (Madrid, Spain)   2023
Machine Learning Research Internship

- Developed a novel neural network algorithm leveraging Large Language Models to achieve roughly 98% accuracy in disambiguating authors across scientific publications, using Pytorch and Huggingface.
- Collaborated with and presented my work to 50+ space telescope mission program managers, journal editors, and machine learning experts.

Michigan State University   2020–Present
Graduate Research/Teaching Assistant

- Developed a machine learning model for document classification, streamlining telescope usage tracking and saving scientists over 1000 hours annually, in python and scikit-learn.
- Compiled a comprehensive dataset of ORCiD-linked publications by cross-matching over 23 million publications with ORCiD profiles, establishing a large-scale set of disambiguated researchers in physics.

Awards and Honors

Cum Laude Michigan State University	2021
Graduate Office Fellowship	2023
Metascience Travel Award	
Cosmic Connections: ML X Astrophysics Symposium Travel Award	
International Conference on the Science of Science and Innovation Travel Award	2024
AI DMM-NRT NSF Fellowship (2024-2025)	

Publications

Identifying Telescope Usage in Astrophysics Publications: A Machine Learning Framework for Institutional Research Management at Observatories (**Subm. The Astronomical Journal**)	2024
LSPO: A Large-Scale Physics ORCiD-Linked Dataset for Author Name Disambiguation with Baseline Methods (**Subm. NeurIPS**)	2024

Talks and Posters

CMSE Student Research Symposium	East Lansing, MI	2022
Astroinformatics (Virtual)	
Peer Review Congress (Podium)	Chicago, IL	
Peer Review Under Review: European Southern Observatory (Podium)	Garching, Germany	2023
Metascience: National Academy of Science (Podium)	Washington D.C.	
Cosmic Connections: ML X Astrophysics Symposium (Podium)	New York, NY	
European Southern Observatory: AI Group Seminar (Virtual)	
European Space Agency: Machine Learning Group (Virtual)	
MSU Engineering Graduate Research Symposium	East Lansing, MI	2024
International Conference on the Science of Science and Innovation	Washington D.C.	
NLP in Space Science Workshop (Podium)	Madrid, Spain	

Mentorship

MSU×Google Explore Computational Research Experience	2021
MSU Undergraduate Research Assistant Program	2021-Present
Google Summer of Code	2023
NSF ACERS REU (Best talk award 2024)	2023, 2024