

Andrea Giammanco

PhD in Computer Engineering

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EXPERIENCE

•Tenured Teacher of Computer Science

I.I.S. G. D'Alessandro

Nov 2023 - To Date

Bagheria, Italy

– Teaching Programming Foundations (C, C++, Python, Flowgorithm) to students in high school.

•PhD Scholar in Computer Engineering

University of Palermo

Nov 2020 - Oct 2023

Palermo, Italy

– Research on **Adversarial Machine Learning** algorithms.

– Teaching the course **Introduction to Python Programming**.

– Teaching the exercises for the course in **Artificial Intelligence**.

– Supervision of 3 post-graduate research scholars.

– Scientific direction for 5 master's theses.

– Speaker at **AIxIA21** and **SmartComp2021** conferences.

– Thesis: *Effective Perturbations in Adversarial Machine Learning Algorithms*.

•Post-Graduate Research Scholar in Computer Engineering

University of Palermo

Nov 2018 - Oct 2020

Palermo, Italy

– Research on **Recommender Systems, User Profiling, Human Mobility Simulation**.

– Responsible for the **Recommender System** module in the **VASARI Research Project**.

– Speaker at **DS-RT19** conference.

EDUCATION

•PhD in Computer Engineering

University of Palermo, Italy

2020-23

📄 Thesis

•Master's Degree in Computer Engineering

University of Palermo, Italy

2016-18

Mark: 110/110 with honors

•Bachelor's Degree in Computer Engineering

University of Palermo, Italy

2013-16

Mark: 110/110 with honors

PUBLICATIONS

•Adverspam: Adversarial spam account manipulation in online social networks

ACM Transactions on Privacy and Security

📄 Paper

🔗 Code

– Abstract: Optimization Problem for finding minimal Correlations-Preserving Adversarial Perturbations.

– Areas of Interest: Adversarial Machine Learning, Online Social Networks, Spam Recognition.

•Adversarial Machine Learning in e-Health: Attacking a Smart Prescription System

AIxIA 2021 – Advances in Artificial Intelligence

📄 Paper

🔗 Code

– Abstract: Constrained number of Binary Features to alter in Adversarial Perturbations.

– Areas of Interest: Adversarial Machine Learning, e-Health.

•A multi-agent system for itinerary suggestion in smart environments

CAAI Transactions on Intelligence Technology

📄 Paper

– Abstract: Recommending Points-of-Interests based on User Profiles through Clustering.

– Areas of Interest: Machine Learning, Recommender Systems, Clustering, User Profiling.

•A Hybrid Recommender System for Cultural Heritage Promotion

2021 IEEE International Conference on Smart Computing

📄 Paper

– Abstract: Recommending Artworks through Content-Based and Collaborative filtering approaches.

– Areas of Interest: Machine Learning, Recommender Systems, Cultural Heritage, User Profiling.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: C/C++, Python.

Libraries: numpy, pandas, matplotlib, pytorch.

Dev Tools: Git, Github.

Databases: MongoDB, Relational Database (MySQL).

Areas of Interest: Machine Learning, Algorithm Design, Data Science, Data Analysis, Data Visualization.

Soft Skills: Self-learning, Presentation of complex topics, Research, Teaching, Mentoring.

Languages: English (fluent), Italian (native).