Giovanni Panella

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EDUCATION

Pi School of Artificial Intelligence — **Rome, Italy**
AI Fellow — *Dec 2024 – Feb 2025*

- Received a two-month, fully-funded scholarship of €12500 to attend the Pi School's School of Artificial Intelligence. This immersive program brings together engineers worldwide to tackle industry machine learning challenges. Fellows, selected through a rigorous process, receive 100% grants to collaborate in small teams for eight weeks, delivering innovative solutions under the guidance of AI coaches and industry/academic mentors. As part of the 15th cohort, the program includes both online and in-person components.

University of Naples Federico II and CNR (*National Research Council of Italy*) — **Parma, Italy**
PhD in Artificial Intelligence — *2023 – 2026*

- Developing AI-powered Bioristor applications for precision agriculture to enhance crop yields, optimize resource utilization, and promote sustainable farming practices.

University of Modena and Reggio Emilia — **Modena, Italy**
MSc. Computer Engineering — *2019 – 2023*
Artificial Intelligence Engineering

- Thesis advisor: Professor. Rita Cucchiara
- (Machine Learning and Deep Learning, Computer Vision, Robotics)

Unversity of Reggio Calabria — **Reggio Calabria, Italy**
BSc. ICT Engineering — *2015 – July 2019*

- (Computer Science, Electronics, Telecommunications).

Conservatory of Music — **Reggio Calabria, Italy**
Music Degree in Trumpet — *2010 – 2017*

MOOC & PROJECTS

- **Neural Networks and Deep Learning (Coursera)**
- **Natural Language Processing with Classification and Vector Spaces (Coursera)**
- **Deep Learning with PyTorch: Object Localization**
- **Computer Vision course project:**
  We built different architectures to perform image classification and image retrieval using the Snapshot Serengeti Dataset.
  Tools: **Pytorch, Pandas, Pycharm**

TECHNICAL SKILLS & KNOWLEDGE AREAS

- Programming Language –**Python** [good] ,**Java, MATLAB, SQL** [Basic]
- **PyTorch**

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ACHIEVEMENTS

- **PhD scholarship at University of Modena and Reggio Emilia (2023)**
  PNRR scholarship "FIT4MEDROB"
- **PhD scholarship National PhD Program (2023)**
  National PhD program "AI for Environment and Agriculture"
- **Technical program committee member (2024)**
  Committee member PerConAI Workshop 2024
- **Best Student Paper Award (May 2024)**
  Awarded the Best Student Paper Award at IEEE EAIS 2024
- **Technical program committee member (2025)**
  Committee member PerConAI Workshop 2025

LANGUAGE

- **Italian** [native language]
- **English** [fluent]

CONFERENCES & PUBLIC TALKS

IEEE EAIS 2024 *May 2024*
Universidad Carlos III de Madrid
Madrid, Spain
Presenting the paper: *Leveraging Incremental Decision Trees and In-Vivo Biosensors for an Explainable Plant Health Monitoring System*
Best Student Paper Award

IEEE WCCI 2024 *July 2024*
Pacifico Yokohama Center
Yokohama, Japan
Presenting the paper: *An Explainable Smart Agriculture System Based on In-Vivo Biosensors*

EXPERIENCE

Orchestra Musician, Orchestra of Reggio Calabria:

- Played trumpet with the Orchestra of Reggio Calabria since the age of 12.
- Participated in numerous contests in Italy.
- Performed in concerts and events across Italy.
- Had the privilege of playing with the Orchestra under the direction of Maestro Riccardo Muti, an extraordinary experience that enriched my musical journey.

PUBLICATIONS

Giovanni Panella, Pietro Ducange, Manuele Bettelli, Filippo Vurro, Michela Fazzolari, and Riccardo Pecori. Leveraging incremental decision trees and in-vivo biosensors for an explainable plant health monitoring system. In *IEEE International Conference on Evolving and Adaptive Intelligent Systems (EAIS) 2024*. IEEE, 2024.

Riccardo Pecori, Giovanni Panella, Manuele Bettelli, Filippo Vurro, Michela Fazzolari, and Pietro Ducange. An explainable smart agriculture system based on in-vivo biosensors. In *IEEE WCCI 2024, World Congress on Computational Intelligence, FUZZ-IEEE 2024, International Conference on Fuzzy Systems*. IEEE, 2024.

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