Università di Genova

Matteo Tortora

Researcher

EDUCATION AND TRAINING

2014
High School Diploma
Scientific High School Marcello Malpighi

2017
Industrial Engineering (L-09)
Major in Biomedical Engineering. Final mark: 107/110. Thesis title: “Development of a System of Identification of Relevant Interventions for the National Fire Brigade Corps”.
University Campus Bio-Medico of Rome

2020
Biomedical Engineering (LM-21)
Major in Health System. Final mark: 110/110 cum laude (with Distinction). Thesis title: “Deep Reinforcement Learning for Fractionated Radiotherapy in Non-Small Cell Lung Carcinoma”.
University Campus Bio-Medico of Rome

2024
Ph.D. in Bioengineering and Biosciences
Curriculum in Science and Engineering for Humans and the Environment, XXXVI cycle. Thesis title: “Exploring the Potential of Multimodal (Deep) Learning”.
University Campus Bio-Medico of Rome

PROFESSIONAL HISTORY

2020
Research collaborator
SSD ING-INF/05
Title of the research project: “CLARO: a CoLlAborative multi-sources Radiopathomics approach for personalized Oncology in non-small cell lung cancer” project.
University Campus Bio-Medico of Rome

2023-2024
Postdoctoral researcher
SSD ING-INF/05
Title of the research project: “AIDA: explAinable multImodal Deep learning for personAlized oncology”.
University Campus Bio-Medico of Rome

2024-now
Assistant Professor
SSD IIND-08/B (ex ING-IND/33)

Università di Genova

Title of the project: “Innovative modeling and co-simulation of integrated multi energy systems for port applications and electric mobility” as part of the extended Network for Energy Sustainable Transition (NEST), Spoke 8: Final Use Optimization, Sustainability & Resilience in Energy Supply Chain.
University of Genoa

EXPERIENCE

MAIN SEMINARS

2023 Speaker IX Annual conference on Energy Communities and Mini Grids

2022 Speaker International Workshop on Reliability Engineering and Computational Intelligence (RECI 2022) organized by the University of Žilina, Delft University of Technology, TNO and University of Huddersfield

TEACHING OR RESEARCH POSITIONS (FELLOWSHIPS) AT FOREIGN UNIVERSITIES AND RESEARCH INSTITUTES

2021-now Teaching assistantship
Course of Artificial Intelligence (5 CFU – SSD ING-INF/05). Bachelor’s degree in digital engineering.
Politecnico di Milano-ELIS

2021-now Teaching assistantship
Course of Fundamentals of Artificial Intelligence (9 CFU – SSD ING-INF/05). Master’s degree in engineering of Smart Systems.
University Campus Bio-Medico of Rome

2021-2025 Teaching assistantship
Course of Computer Vision (9 CFU – SSD ING-INF/05). Master’s degree in engineering of Smart Systems.
University Campus Bio-Medico of Rome

2020-2022 Teaching assistantship
Course of course of Fundamentals of Computer Science and C++ (10 CFU – SSD ING-INF/05). Bachelor’s degree in digital engineering.
Politecnico di Milano-ELIS

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2025-now Lead Guest Editor
Co-Editors: Prof. Fabio Galasso, Prof. Alessandro Bria, Eng. Aurora Rofena.
Computerized Medical Imaging and Graphics (Q1 Computer Science Area)

2025 Lead Workshop Organizer
Co-Organizers: PhD Valerio Guarrasi and Eng. Aurora Rofena.
Foundation Models in Medicine (FMM) at the International Joint Conference on Neural Networks (IJCNN) 2025

2025 Lead Workshop Organizer
Co-Organizers: Prof. Fabio Galasso, Prof. Tufve Nyholm, Prof. Tânia Pereira, Prof. Alessandro Bria, and Eng. Aurora Rofena.

Università di Genova

Generative Artificial Intelligence for Biomedical Applications (GAI4BA) at the International Symposium on Computer-Based Medical Systems (CBMS) 2025

2025 Area Chair
International Joint Conference on Neural Networks (IJCNN) 2025

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2025 TCCLS Best Student Paper Award - IEEE CBMS 2025
Ayllón, E. M., Mantegna, M., Shen, L., Soda, P., Guarrasi, V., & Tortora, M. (2025, June). Can Foundation Models Really Segment Tumors? A Benchmarking Odyssey in Lung CT Imaging. In 2025 IEEE 38th International Symposium on Computer-Based Medical Systems (CBMS) (pp. 375-380). IEEE.

2024 Best poster award - The European Lung Cancer Congress (ELCC 2024)
Greco, C., Ippolito, E., Fiore, M., Aurelia, I., Miele, M., Trodella, L. E., Tacconi, C., Sicilia, R., Tortora, M., Soda, P., & Ramella, S. (2024). 142P AI-based approaches to predict early response in unresectable LA-NSCLC patients undergoing chemoradiation. ESMO Open, 9.