Matteo Saveriano

Curriculum Vitae

Short Bio

I was born in Avellino, Italy on July 30th, 1986. I received the Bachelor and Master degrees from Università degli Studi di Napoli "Federico II" in 2008 and 2011 respectively, and a PhD in Electrical and Computer Engineering with a focus on Robotics from Technical University of Munich in 2017.

Education

2012–2017 **PhD in Electrical and Computer Engineering**, *Technical University of Munich*, Munich, Germany, *with highest distinction*.

2008–2011 **Master in Automatic Control Engineering**, *Università degli Studi di Napoli Federico II*, Naples, Italy, *110/110 with honors*.

2005–2008 **Bachelor in Automatic Control Engineering**, *Università degli Studi di Napoli Federico II*, Naples, Italy, *110/110 with honors*.

Experience

Research

Dec. 2024 – ongoing **Associate Professor**, University of Trento, Trento, Italy.

Dec. 2021 to Dec. 2024 **Assistant Professor (RTD-B)**, University of Trento, Trento, Italy.

Jan. 2020 to Dec. 2021 **Assistant Professor**, University of Innsbruck, Innsbruck, Austria.

Jun. 2019 to Dec. 2019 **Post-Doctoral Researcher**, University of Innsbruck, Innsbruck, Austria.

Jan. 2018 to May 2019 **Post-Doctoral Researcher**, German Aerospace Center (DLR), Weßling, Germany.

2012–2017 **Research assistant**, Technical University of Munich, Munich, Germany.

2011 **Scholarship**, Università degli Studi di Napoli Federico II, Naples, Italy.

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Teaching

2023–ongoing **Sviluppo integrato di dispositivi e robot collaborativi e per l'industria biomedicale**, *University of Verona*, Verona.
Lecturer.

2022–ongoing **Foundation of Automation**, *University of Trento*, Trento.
Lecturer.

2022–ongoing **Introduction to Robotics**, *University of Trento*, Trento.
Lecturer.

2021 **Optimization and Numerical Computation**, *University of Innsbruck*, Innsbruck.
Lecturer.

2021 **Data Analytics**, *University of Innsbruck*, Innsbruck.
Lecturer.

2020–2021 **Machine Learning**, *University of Innsbruck*, Innsbruck.
Lecturer.

2019–2021 **Introduction to Robotics**, *University of Innsbruck*, Innsbruck.
Lecturer.

2018 **Reinforcement Learning for Robotics**, *Technical University of Munich*, Munich.
Lecturer.

2012–2017 **Machine Learning in Robotics**, *Technical University of Munich*, Munich.
Teaching assistant.

2016 **Humanoid RoboCup**, *Technical University of Munich*, Munich.
Teaching assistant and lecturer. Lecture title:"Introduction to Reinforcement Learning".

2014–2017 **Dynamic Human Robot Interaction**, *Technical University of Munich*, Munich.
Lecturer. Lecture title:"Toward a Safe Dynamic Human–Robot Interaction: Collision Avoidance, Detection and Reaction".

Projects

Jan. 2024 – ongoing **INVERSE**, *INteractive robots that intuitiVely lEarn to inVErt tasks by ReaSoning about their Execution*, Horizon Europe (HE), European Union, Coordinator.

Sep. 2023–ongoing **ARIEL**, *Assistive Robotics for Impaired and Elderly peopLe*, NextGeneration EU project, PRIN 2022, Italian Ministry of University and Research, Co-PI.

Sep. 2022 – ongoing **iNEST**, *Interconnected Nord-Est Innovation Ecosystem*, NextGeneration EU project, Italian Ministry of Education and Research,Task leader.

Sep. 2022–ongoing **LIFE4HUB**, *Living Innovative Fully Engineered for Human Bioreplacement*, NextGeneration EU project, Italian Ministry of Education and Research, Activity leader.

Oct. 2019–Feb. 2022 **OLIVER**, *Open-Ended Learning for Interactive Robots Free-Form Application*, Euregio Project, Austrian Research Foundation (FWF), Research assistant.

Nov. 2018–May 2019 **GINA**, *High-quality designed interaction strategies for service and assistance robotics*, German National Project, Federal Ministry of Education and Research (BMBF), CO-PI.

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2016– 2017 **ROLITOS**, *Robotic light touch support during locomotion in balance impaired humans*, inter-disciplinary project, Technical University of Munich, international graduate school of science and engineering (IGSSE), Research assistant.

2012– 2015 **SAPHARI**, *Safe and Autonomous Physical Human-Aware Robot Interaction*, large-scale integrating project (IP), European Commission, Research assistant.

Sep. 2011– Dec. 2011 **AIRobots**, *Innovative aerial service robots for remote inspections by contact*, collaborative project (CP), European Commission, Research assistant.

Miscellaneous

Jun. 2023 **Organizer**, Variable Impedance Learning and Control: From the Foundations to the Future Perspectives, Robotics: Science and Systems (RSS).

Jun. 2022 **Organizer**, Workshop on Variable Impedance Robotic Skills: From the Foundations to the Current Challenges and Perspectives, Robotics: Science and Systems (RSS).

Feb. 2022 **Organizer**, Special issue on: Variable Impedance Control And Learning In Complex Interaction Scenarios: Challenges And Opportunities, IEEE Robotics and Automation Letters (RA-L).

Oct. 2021 **Organizer**, Research Topic on: Learning, Perception, and Collaboration for Robots in Industrial Environments, Frontiers in Robotics and AI.

Sep. 2021 **Organizer**, Workshop on Variable Impedance Robotics skills: Challenges and Opportunities, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).

Oct. 2020 **General Chair**, 13th International Workshop on Human-Friendly Robotics (HFR 2020).

Nov. 2019 **Corresponding Organizer**, Workshop on Factory of the Future - How to digitalize the robot-aided manufacturing process in Industry 4.0?, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).

May 2019 **Corresponding Organizer**, Workshop on Learning for Industry 4.0: Feasibility and Challenges, IEEE International Conference on Robotics and Automation (ICRA).

2016–2018 **Consultant for technology transfer**, External advisor for the startup ROBOTCLOUD UG (*www.robotcloud.eu*), concerning the applications of imitation learning techniques to robots operating in industrial scenarios..

Qualifications

Jun. 2023– Jun. 2034 **National Scientific Qualification**, I received the Italian national scientific qualification as Associate Professor in Control Engineering.

Apr. 2021– Apr. 2031 **National Scientific Qualification**, I received the Italian national scientific qualification as Associate Professor in Computer Science.

Editorial Activity

2024 **Senior Editor**, International Conference on Ubiquitous Robots (UR).

2024 **Associate Editor**, IEEE-RAS International Conference on Humanoid Robots (HUMANOIDS).

2024 **Area Chair**, International Conference on Artificial Neural Networks (ICANN).

Jan. 2023 to current **Associate Editor**, The International Journal of Robotics Research (IJRR).

Jan. 2020 to current **Associate Editor**, IEEE Robotics and Automation Letters (RAL).

2022 **Guest Editor**, IEEE Robotics and Automation Letters (RAL), Special Issue on: Variable Impedance Control And Learning In Complex Interaction Scenarios: Challenges And Opportunities.

2022-2023 **Associate Editor**, IEEE International Conference on Robotics and Automation (ICRA).

Jun. 2021 to current **Review Editor**, Frontiers in Robotics and AI.

2021–2023 **Associate Editor**, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).

2021 **Program committee**, International Conference on Computer Vision Systems (ICVS).

2019–2022 **Associate Editor**, International Conference on Ubiquitous Robots (UR).

2019 **Technical committee**, Conference on Robot Learning (CoRL).

2019 **Technical committee**, Design, Automation and Test in Europe Conference (DATE).

2017 **Program committee**, International Workshop on Human-Friendly Robotics (HFR).

2016, 2017 **Program committee**, Workshop on Behavior Adaptation, Interaction, and Learning for Assistive Robotics (BAILAR), International Symposium on Robot and Human Interactive Communication (Ro-Man).

Research Grants

2024–2027 **INVERSE**, *Interactive robots that intuitively learn to invert tasks by reasoning about their Execution*, European Project, European Union, Project Coordinator.

2023–2025 **ARIEL**, *Assistive robotics for impaired and elderly people*, Italian National Project, Ministry of University and Research (MUR), Co-PI.

2023–2027 **MAGICIAN**, *iMmersive leArninG for ImperfeCtion detectIon and repAir through human-robot interactioN*, European Project, European Union, Activity Leader.

2023–2025 **iNEST**, *Interconnected Nord-Est Innovation Ecosystem*, NextGeneration EU Project, Ministry of University and Research (MUR), Activity Leader.

2018–2021 **GINA**, *High-quality designed interaction strategies for service and assistance robotics*, German National Project, Federal Ministry of Education and Research (BMBF), Co-PI.

Awards

2022 **Best Poster Award**, Austrian Robotics Workshop (GMAR).

2017 **Outstanding Paper Award**, International Conference on Ubiquitous Robots and Ambient Intelligence (URAI).

2017 **Best Student Paper Award Candidate**, International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS).

2014 **Best Poster/Video Presentation Award**, International Conference on Ubiquitous Robots and Ambient Intelligence (URAI).

2014 **Nomination for Best Robot Video Award**, Conference on Artificial Intelligence (AAAI).

2014 **Kazuo Tanie Award Candidate**, International Symposium on Robot and Human Interactive Communication (Ro–Man).

Invited Talks

2021 *Learn To Be Stable: Imitation Learning with Dynamical Systems*, 14th International Workshop on Human-Friendly Robotics (HFR 2021)

2021 *Hierarchical action decomposition and motion learning for the execution of manipulation tasks*, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) – Workshop on Semantic Policy and Action Representation for Autonomous Robots (SPAR)

2017 *Data-Efficient Control Policy Search using Residual Dynamics Learning*, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) – Workshop on Micro-Data: The New Frontier of Robot Learning?

2015 *Online Motion Reshaping based on Dynamical Systems: A Contribution to Human-Robot Co-existence*, IEEE International Conference on Robotics and Automation (ICRA) – Workshop on Planning, Control, and Sensing for Safe Human-Robot Interaction.