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. 2021 to current	**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

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

Oct. 2019– ongoing **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.

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).

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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 ROBOT-CLOUD UG (*www.robotcloud.eu*), concerning the applications of imitation learning techniques to robots operating in industrial scenarios..

Qualifications

Apr. 2021– Apr. 2030	**National Scientific Qualification**, I received the Italian national scientific qualification as Associate Professor in Computer Science.

Editorial Activity

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

| 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.

Languages

Italian	**Mother tongue**	
English	**Intermediate**	*Conversationally fluent*
German	**B2**	*ÖSD Certificate*