

University Academic Curriculum Vitae

Personal information	Teresa Sinico E-mail: teresa.sinico@unibz.it
Education since leaving school	<ul style="list-style-type: none">• 2020: Bachelor's degree in Mechatronic Engineering, University of Padua• 2022: Master's degree in Mechatronic Engineering, University of Padua
Present appointment	<ul style="list-style-type: none">• (2022-present): PhD student of the Doctoral Course in Mechatronics and Product Innovation Engineering at University of Padua with thesis "PLC-based control of industrial robots for highly complex tasks"• (2023-present): lecturer of exercises lessons of "Meccanica Applicata alle machine" (42137) and "Meccanica Delle Macchine Automatiche" (42185) at Free University of Bozen-Bolzano• (2023-present): teacher of robotics and mechatronics systems (modules 11.0 and 11.1) at ITS Academy Meccatronico Veneto• (2022-present): teaching assistant of laboratory lectures of Industrial Robotics (INL1000874) at University of Padua
Experience in academic teaching	<ul style="list-style-type: none">• Undergraduate supervision: 4 students supervised in the past year during their master thesis with focus on industrial and collaborative robotics
Memberships	Review Editor on the Editorial Board of Industrial Robotics (speciality section of Frontiers in Robotics and AI).
Research and scholarships	<ul style="list-style-type: none">• My research interests are in the general areas of robotics and control. In particular, I have been working on kinematic and dynamic modeling, trajectory planning, motion planning and control of industrial robots for highly complex tasks. I am currently investigating the control schemes used in industrial robots and assessing their limitations.• 2020: won the scholarship "Mille e una Lode"• 2021: won the scholarship "Mille e una Lode"
Publications	<p>G. Boschetti and T. Sinico. «Performance Comparison of Two Architectures of 6R Articulated Robots». In: <i>Machines</i> 11.2 (2023). DOI: 10.3390/machines11020306</p> <p>G. Boschetti, T. Sinico and A. Trevisani. «Improving Robotic Bin-Picking Performances through Human-Robot Collaboration». In: <i>Applied Sciences (Switzerland)</i> 13.9 (2023). DOI: 10.3390/app13095429</p>
Statement of interest	Mechatronic Engineer and PhD student with expertise in the area of mechanical modeling of robots and control strategies. Committed to teaching, researching, and making developments in the field of

industrial and collaborative robotics.

**Language
competence**

Italian: first language

Other languages: see table below

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A1	A1	A1	A1	A1

Date 19/01/2024