europass	Curriculum Vitae	Mariangela Filosa
PERSONAL INFORMATION	Mariangela Filosa	
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	Work: mariangela.filosa@santannapisa.it Google Scholar Profile	
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	Sex Female Date of birth 03/06/1993 Nationality Italian	
WORK EXPERIENCE		
In progress since 01/01/2023	Post-doctoral Research fellowship	
	Organisation: The BioRobotics Institute - Sant'Anna School of Advanced Studies, Pont	edera (PI)
	Main Activities: - Technical coordination of projects on wearable devices for wellness and healthc	are, tactile devices
	for collaborative robotics, haptic systems for sensory restoration	
	 Support to project proposals writing Supervision of teams and students (contrator of 4 PhD students and master students) 	dente)
15/05/2021-31/12/2022	Term-contract research job (co co co)	
10/00/2021-01/12/2022	Organization: The BioRobotics Institute - Sant'Anna School of Advanced Studies. Pont	edera (PI)
	Main Activities:	
	- Support to supervision of students	- h - tion - a - a - tura l
	 recnnical activities: naroware design and development, implementation of re artificial intelligence strategies, experimental activities and data analysis 	Spotic control and
01/10/2019 - 26/06/2023	Ph.D. in BioRobotics	
01110/2010 20/00/2020	Organization: The BioRobotics Institute - Sant'Anna School of Advanced Studies, Pont	tedera (PI)
	Main Activities:	~ /
	 Implementation of Artificial Intelligence algorithms for wearable systems, robotic Development of relation platforms and wearable devices for wellness and back 	cs and Industry 4.0
	 Development of robotic platforms and wearable devices for wearless and reall Study and integration of optical sensors (Fiber Bradd Grating, FBG) for wearable 	oles and robotics
	- Analysis of the breathing and the upper limbs biomechanics	
	- Design and execution of clinical and not clinical experimental protocols	
01/11/2018-30/09/2019	Research fellowship	
	Organization: Dipartimento di Studi Linguistici e Culturali Comparati, Universita Ca' Fo The BioRobotics Institute – Sant'Anna School of Advanced Studies	scari Venezia and
	Project : "Validation of innovative haptic systems for sensory function recovery by	means of robotic
	platforms"- ADAPT PARLOMA (SIN00132)	
EDUCATION AND TRAINING		
26/06/2023	Ph.D. degree in BioRobotics	
	Final mark: honors	
	Thesis: "Haptic sensing and feedback of biomechanical information"	todora (PI)
10/23-12/23	Visiting researcher @FALL	
10/25-12/25	Visiting period at the Machine Learning and Data Analytics Laboratory (MaD Lab) on arti	ificial intelligence
	topics (deep and transfer learning) for artificial tactile skins.	noial intelligence
	Organization: Friedrich-Alexander-Universität, Erlangen-Nürnberg, Germany	
09/2019	Graduation to Professional Engineer (Italian legislation)	
	Università di Pisa – Scuola di Ingegneria, Pisa (PI)	
10/2015–24/07/2018	Master's degree in Biomedical Engineering (LM-21)	Level 7 QEQ
	Università di Pisa – Scuola di Ingegneria, Pisa (PI)	
	Final mark: 110/110 cum laude	
09/2012–09/10/2015	Bachelor's Degree in Biomedical Engineering (L-8)	
	Final mark: 108/110	
2007–2012	High school	
	Liceo Scientifico Enrico Fermi, Gaeta (LT)	
	Final mark: 100/100 cum laude	
PERSONAL SKILLS		
Mother tongue	Italian	
Other languages	English (C1), French (A1)	
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Curriculum Vitae

Job-related skills	 Implementation and application of artificial intelligence approaches Mechanical design and 3D printing tools (FDM, SLA, DLP), electronic instrumentation, Motion Capture tools, sensor characterization, data analysis, statistical analysis, and programming Editing of technical and ethical committee documentation Coordination and management of experimental activities Patent editing and legislation and intellectual property protection
Digital skills	ECDL (European Computer Driving Licence)
	Operating systems: Good (Microsoft Windows, MacOS) Word: Proficient
	Excel: Good
	Multimedia: Proficient
	Database: Fair Programming: Proficient
	CAD: Proficient
	Programming languages : C++, G (graphical), Python Software : MATLAB, LabVIEW, Python, Simulink, Comsol Multiphysics, Solidworks, Fusion 360 Autodesk, Nexus 2.8.1 (motion tracking software, Vicon Motion Capture Systems), CCS (Code Composer Studio), LTSpice, MeshLab, 3D Slicer, VisualSFM, Regard 3D, Cura, PreForm, Mathcad, Arduino, SPSS statistics, OpenSim, Slic3r
Other skills	- Team activities coordination and management
	- Adaptability, flexibility and problem solving
	- Interpersonal skills from teamwork
	- Work and time management
ADDITIONAL INFORMATION	
Seminars, Conferences and Courses	
18/04/2024	"Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session" Seminar on Vicon MoCap system practical use Role: Speaker
18/04/2024 29/08-05/09/2023	"Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session" Seminar on Vicon MoCap system practical use Role: Speaker "1st Doctoral Summer School on Robotics and Intelligent Machines – DRIMS2", Volterra Theoretical and practical PhD summer school on robotic systems Role: Tutor
18/04/2024 29/08-05/09/2023 23/05/2023	 "Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session" Seminar on Vicon MoCap system practical use Role: Speaker "1st Doctoral Summer School on Robotics and Intelligent Machines – DRIMS2", Volterra Theoretical and practical PhD summer school on robotic systems Role: Tutor "Al-enabled tactile solutions for collaborative robotics and wearable applications" @ The 26th Vorld Micromachine Summit, Bucharest Talk about advanced tactile solutions for collaborative robotics and cardiac implantable devices.
18/04/2024 29/08-05/09/2023 23/05/2023 18/11/2022	 "Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session" Seminar on Vicon MoCap system practical use Role: Speaker "1st Doctoral Summer School on Robotics and Intelligent Machines – DRIMS2", Volterra Theoretical and practical PhD summer school on robotic systems Role: Tutor "Al-enabled tactile solutions for collaborative robotics and wearable applications" @ The 26th Vorld Micromachine Summit, Bucharest Talk about advanced tactile solutions for collaborative robotics and cardiac implantable devices. Role: Speaker "Intelligent touch sensors for collaborative robotics applications and wearables in telemedicine and rehabilitation" @ MaD Lab, Friedrich-Alexander-Universität, Erlangen (Germany) Talk about: Collaborative robotics and artificial skins; Wearable devices for cardiorespiratory monitoring; Wearable devices for sensory feedback. Role: Speaker
18/04/2024 29/08-05/09/2023 23/05/2023 18/11/2022 16/05/2022	 "Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session" Seminar on Vicon MoCap system practical use Role: Speaker "Ist Doctoral Summer School on Robotics and Intelligent Machines – DRIMS2", Volterra Theoretical and practical PhD summer school on robotic systems Role: Tutor "Al-enabled tactile solutions for collaborative robotics and wearable applications" @ The 26th Vorld Micromachine Summit, Bucharest Talk about advanced tactile solutions for collaborative robotics and cardiac implantable devices. Role: Speaker "Intelligent touch sensors for collaborative robotics applications and wearables in telemedicine and rehabilitation" @ MaD Lab, Friedrich-Alexander-Universität, Erlangen (Germany) Talk about: Collaborative robotics and ardiacies for cardiorespiratory monitoring; Wearable devices for sensory feedback. Role: Speaker "FBG-based touch sensors for collaborative robotics and wearables" @ 2nd IIT-SSSA day, Dottedera Talk about Fiber Bragg Grating sensors in devices for collaborative robotics and wearables systems for health monitoring. Role: Speaker
18/04/2024 29/08-05/09/2023 23/05/2023 18/11/2022 16/05/2022 15/04/2021	 "Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session" Seminar on Vicon MoCap system practical use Role: Speaker "1st Doctoral Summer School on Robotics and Intelligent Machines – DRIMS2", Volterra Theoretical and practical PhD summer school on robotic systems Role: Tutor "Al-enabled tactile solutions for collaborative robotics and wearable applications" @ The 26th Morid Micromachine Summit, Bucharest Talk about advanced tactile solutions for collaborative robotics and cardiac implantable devices. Role: Speaker "Intelligent touch sensors for collaborative robotics applications and wearables in telemedicine and rehabilitation" @ MaD Lab, Friedrich-Alexander-Universität, Erlangen (Germany) Talk about: Collaborative robotics and artificial skins; Wearable devices for cardiorespiratory monitoring; Wearable devices for sensory feedback. Role: Speaker "GBC-based touch sensors for collaborative robotics and wearables" @ 2nd IIT-SSSA day, Doctored Devices for calaborative robotics and wearables "@ 2nd IIT-SSSA day, Doctored Devices for sensory feedback. Role: Speaker "Debinar "Artificial Intelligence for rehabilitation and healthcare" Speech about artificial intelligence approaches for wearable systems providing breathing activity monitoring in rehabilitation and occupational health and safety scenarios. Role: Speaker
18/04/2024 29/08-05/09/2023 23/05/2023 18/11/2022 16/05/2022 15/04/2021 Personal data treatment	 "Marker-based motion tracking methods. Insights into the Vicon MoCap system and hands-on session". Seminar on Vicon MoCap system practical use Role: Speaker "141 Doctoral Summer School on Robotics and Intelligent Machines – DRIMS2", Volterra Theoretical and practical Ph D summer school on robotic systems Role: Tutor "Al-enabled tactile solutions for collaborative robotics and wearable applications" @ The 26th World Micromachine Summit, Bucharest. Talk about advanced tactile solutions for collaborative robotics and cardiac implantable devices. Role: Speaker "Intelligent touch sensors for collaborative robotics applications and wearables in telemedicine and rehabilitation" @ MaD Lab, Friedrich-Alexander-Universität, Erlangen (Germany) Talk about: Collaborative robotics and artificial skins; Wearable devices for cardiorespiratory monitoring; Wearable devices for sensory feedback. Role: Speaker "HeG-based touch sensors for collaborative robotics and wearables" @ 2nd IIT-SSSA day, Double Speaker Talk about Fiber Bragg Grating sensors in devices for collaborative robotics and wearables systems for health monitoring. Role: Speaker Debinar "Artificial Intelligence for rehabilitation and healthcare" Speaker Mechane that the contents of this CV are correct and accurate to the best of my knowledge and I authorize the

Pontedera, 02/05/2024

Signature