

Form to collect the information relevant for the PhD Quality Awards

PhD Student information

Surname	Arnaudo
Name	Edoardo
PhD Cycle	XXXVI
Tutor	Prof. Barbara Caputo, co-tutor Fabrizio Dominici

Participation in Research Projects (add as many rows as necessary, 1 row per project)

Project name and short description	Competitive Selection	Project Scope	From	To	Role in project	Notes
FASTER -First responder Advanced technologies for Safe and efficient Emergency Response (H2020 – GA n.833507) Complete platform handling the entire lifecycle of emergency preparedness and response, including the planning, logistical support, maintenance and diagnostics, training and management.	Yes	I	06/2019	04/2022	TL	Design and implementation of machine learning solutions for emergency response.
SHELTER - Sustainable Historic Environments hoListic reconstruction through Technological Enhancement and community based Resilience (H2020 – GA n.821282) A data-driven knowledge framework based on data used by scientists and heritage managers. The project attempts to model the direct and indirect impacts as well as the risks of climate change on historic sites.	Yes	I	06/2019	05/2023	TL	Design and implementation of AI-based remote sensing tools in collaboration with PoliTo.
SAFERS - Structured Approaches for Forest fire Emergencies in Resilient Societies (H2020 – GA n. 869353) A	Yes	I	10/2020	03/2024	WL	Led the design and implementation of EO-based intelligent services for wildfire management.

OVERWATCH - Integrated holographic management map for safety and crisis events (HEU – GA n. 101082320) Integrated holographic management system for the response to, recovery from and mitigation of emergencies and disasters. Combining the use of EGNSS and Copernicus with AI, drones, 5G and augmented reality.	Yes	I	11/2022	10/2025	WL	Leading the design and implementation of in-field and EO-based AI services for emergency management
DYDAS - DYnamic Data Analytics Services CEF TELECOM - 2018-IT-IA-0101) The DYDAS project involves the creation of a platform capable of handling large volumes of dynamic data, enabling the public sector and industry to benefit from large-scale data analysis.	Yes	I	12/2019	01/2023	P	Design and implementation of novel ML solutions for solar panel delineation from aerial images (journal available).

Teaching Activities in University Courses (add as many rows as necessary, 1 row per activity)

Name of the course where the activity has been done	Course type	Course CFUs	Academic year	Role in course	number of hours of teaching <i>done</i>	CPD evaluation (if any)	Notes
Applied Data Science Project (01TXXSM)	M	12	2022/2023	L	21	--	--
Applied Data Science Project (01TXXSM)	M	12	2023/2024	L	--	--	--

Research Dissemination Activities (add as many rows as necessary, 1 row per activity)

Dissemination activity name	Date	Link	Description	Notes
DAUIN PhD Poster Day	08/11/2022	http://www.phd-dauin.polito.it/phd-poster-day-2022.html	Presentation of the recent research activities during the DAUIN PhD day	
ICIAP 2021 Conference	25/05/2023	https://www.iciap2021.org/eventagenda/	Presentation of the research	

			activities in an international conference	
ESA LPS 2022 Conference	26/05/2022	Poster List - Day 4 – Living Planet Symposium 2022 (ollyservices.com)	Poster presentation of the applied research activities carried out in the context of the projects SAFERS and SHELTER.	
IGARSS 2023 Conference	18/07/2023	Technical Program: Paper Detail IEEE IGARSS 2023 Pasadena, California, USA 16 - 21 July, 2023	Poster presentation of the PhD research activities, linked with the projects SAFERS and OVERWATCH	

Participation in Contracts with Industrial Companies (add as many rows as necessary, 1 row per contract)

Contract name and short description	Company name	From	To	Role in contract	Notes

Patents (add as many rows as necessary, 1 row per patent)

Patent title	Patent Type	Last patent status	Date	Notes

Technology Transfer Activities (add as many rows as necessary, 1 row per activity)

Technology Transfer Activity Description	From	To	Role in activity	Notes

Awards (add as many rows as necessary, 1 row per award)

Award Description	Date	Type	Notes