Roberto Casadei

PhD, Research Fellow @ UniBo

Research and Teaching

2016 →
Research, community, teaching

Papers	25+ papers in journals & conferences; h-index 10 (SCOPUS)
Service	eCAS'19/21 Chair, ACSOS'21 PC & Publicity Chair, CO-ORDINATION'21 PC
Teaching	Object-Oriented Programming course; ...
Peer Rev.	IEEE IoT J.; Elsevier PMC; IEEE T-ITS; Springer SoSyM..

Awards and Scholarships

2020
IEEE TCSC Outstanding PhD Dissertation Award 2020
Awarded by the IEEE Technical Committee on Scalable Computing.

2017 — Faenza (Italy)
Best master graduate student (G.Bassi 2017 prize)
Winner of prize *Gianni Bassi*, with 5000€ scholarship, issued by Rotary Club Faenza for *Best Master Graduate Student* across all Engineering faculties of Romagna (district 2072) based on Grade Average.

Scholarships
3-year Computer Science and Engineering PhD Scholarship (MIUR); DisCoTec 2019 Travel Grant; Marco Polo 2016 Mobility Grant; Scala Symposium 2016 Travel Grant; Scholarship for Meritorius Students (UNIBO, A.Y. 2014-15)

Experiences Abroad

2018 — Wien, Austria
Visiting PhD student @ TU Wien
Foreign referee: Prof. Schahram Dustdar

2017 — St Andrews, Scotland
Visiting PhD student @ St Andrews University
Foreign referee: Prof. Simon Dobson

2018 — Limerick, Ireland
Erasmus @ Limerick University

Open-source/academic projects

2016 → now
SCAFI (Lead developer)
Scala with Computational Fields (SCAFI): a toolkit for Aggregate Computing in Scala comprising a DSL, simulator, & distributed platform.

2017
ALCHEMIST (Contributor)
Alchemist is a meta-simulator tailored to pervasive computing.

Education

2016/11 → 2020/04 — Università di Bologna
PhD in Computer Science and Engineering, "Excellent"

Thesis	Engineering Self-Adaptive Collective Processes for Cyber-Physical Ecosystems

Skills and expertise

Note: this section is indicative; current level of mastery can vary; by no means exhaustive. I am an eager learner: gaps can be filled.

Legend: Used/Studied — Solid — Mastery

	Used/Studied	Solid	Mastery
Paradigms	Imperative	Functional	Async
	OOP	Reactive	Logic
PLs	Scala	Java/Kotlin	Rust
	C#	C/C++	Python
Arch	Patterns	(μ)Services	Cloud-native
Devops	Docker, K8s	Gradle/sbt	Travis CI
Data	SQL	NoSQL	ML
Cloud	Google Cloud	AWS	Heroku
Web	HTML5	CSS3	JavaScript

Work Experience

2019/11 → 2021/10 — UNIBO, Cesena (Italy)
Research Fellow
"Engineering collective adaptive processes through aggregate computing"

2015/09 → 2015/12 — Apex-Net (WEDO), Cesena (Italy)
Full-Stack Software Engineer (part-time)
Web application development in ASP.NET MVC and JavaScript within a Scrum/Kanban process framework.

2014/03 → 2014/09 — Apex-Net (WEDO), Cesena (Italy)
Mobile Software Engineer (part-time)
Development of a Windows 8.1 application in C#/XAML and development of the related WCF back-end service for SharePoint integration.

Full CV available at this link

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