europass	
Curriculum Vitae Europass	
Personal Information Name / Surname	Morena Barboni
Current Occupation	Phd Student in Computer Science and Mathematics Università di Camerino
Professional Experience	
2021	Research Fellow at CNR-IASI
	Research Fellow in the SaKS group at the IASI "A. Ruberti" CNR, Rome, Italy. PRIN 2017 Research Programme: SISMA: Solutions for Engineering Microservice Architectures. Reference Prof. Antonia Bertolino, Prof. Guglielmo De Angelis
Education and Training	
2018- 2020	Master's Degree in Computer Science 110L
2015- 2018	Università di Camerino Bachelor's Degree in Computer Science 110L Università di Camerino
Specialized Education	
8/07/2024-12/07/2024	Participation: Summer School on Software Testing, Verification & Validation (TAROT) Università degli studi di Bergamo
27/11/2022-18/10/2022	Participation: International School on Algorand Smart Contracts Università degli studi di Cagliari (Online)
27/06/2022-01/07/2022	Participation: 3rd Blockchain and Distributed Ledger Technology School Università degli studi di Cagliari
International Mobility	
February 2024 - June 2024	Visiting PhD Student at Universität Passau, Germany During the period abroad I worked on the application of LLMs and Mutation Testing to automatically derive test cases for Solidity Smart Contracts. Reference Prof. Gordon Fraser
Presentations and Seminars	
2024	Paper Presentation at the 17th International Conference on the Quality of Information and Communications Technology (Quatic), Pisa, Italy.
2024	Paper Presentation at the IEEE International Conference on Blockchain and Cryptocurrency (ICBC) Dublin, Ireland.

2023	Doctoral Forum Presentation at the 38th IEEE/ACM International Conference on Automated Software Engineering (ASE 2023), Kirchberg, Luxembourg.			
2023	Paper Presentation at the IFIP-ICTSS 35th International Conference on Testing Software and Systems (ICTSS), Bergamo, Italy			
2022	Paper Presentation at the 15th International Conference on the Quality of Information and Communications Technology (Quatic), Talavera de la Reina, Spain.			
2022	Paper Presentation at the 5th International Workshop on Emerging Trends in Software Engineering for Blockchain (WETSEB), Online.			
2021	Paper Presentation at the 14th International Conference on the Quality of Information and Communications Technology (Quatic), Online.			
2021	Paper Presentation at the 2nd ACM/IEEE International Conference on Automation of Software Test (AST), Online.			
Research Activity				
2022-2024	(Co-)Organisation of Winter School Co-organiser of the "International Winter School on Blockchain technology and Application" University of Camerino, Italy			
2021-2024	 Reviewer for the following conferences and journals: Journal of Software Maintenance and Evolution (JSME) Journal of Software: Evolution and Process (JSEP) Journal of Systems and Software (JSS) SoftwareX Software: Practice and Experience International Conference on Automation of Software Test (AST) International Conference on Perspectives in Business Informatics Research (BIR) International Conference on Knowledge Science, Engineering and Management (KSEM) International Conference on Testing Software and Systems (ICTSS) The Practice of Enterprise Modeling (PoEM) 			
Teaching Activity				
2021-2024	Co-Supervisor For several group projects, bachelor's and master's theses. University of Camerino, Italy			
2024	Tutor for the Software Engineering Course University of Camerino, Italy			
2024	Teaching Activity Lecture on "Smart Contract Testing in Practice" University of Camerino, Italy			
2024	Tutoring Activity Tutor for the group projects during the "International Online Winter School on Blockchain Technology and Applications - Hyperledger" University of Camerino, Italy			
2024	Teaching Activity Lecture on "Fabric SDK - Laboratory and Project Assignment" for the "International Online Winter School on Blockchain Technology and Applications - Hyperledger" University of Camerino, Italy			
2023	Tutoring Activity Development of a video game for teaching blockchain through gamification concepts - IIS "E. MATTEI" University of Camerino, Italy			

2023	Teaching Activity Lecture on "Smart Contract Testing and Hardhat Tutorial" University of Camerino, Italy						
2023	Teaching Activity Lecture - "Introduction to Javascript" - IIS "E. MATTEI" University of Camerino, Italy						
2023	Tutoring Activity Teaching Solidity Smart Contract programming with CryptoZombies ITT Montani, Fermo, Italy						
2022	Tutoring activity Tutor for the group projects during the "International Online Winter School on Blockchain Technology and Applications - Hyperledger" University of Camerino, Italy						
2022 Mathewa	Teaching Activity Lecture on "Fabric SDK, Laboratory and Project Assignment" for the "International Online Winter School on Blockchain Technology and Applications - Hyperledger" University of Camerino, Italy						
Mother tongue	Italian						
Other languages			1				
	Underst	tanding	Speaking		Writing		
	Listening	Reading	Spoken Interaction	Spoken Production	_		
English	C1	C1	C1	C1	C1		
French	A1	A1	A1	A1	A1		
	Levels: A1 and A2: Bas Common European Fra		Independent user – C1 a e for Languages	and C2: Proficient user			
Driving license	В						

- 1. Morena Barboni, Andrea Morichetta, Andrea Polini, Sebastian Banescu and Edward Zulkoski. Mutation Testing of Smart Contracts As a Service. Proceedings of the 17th International Conference on the Quality of Information and Communications Technology (QUATIC), 2024
- Sebastian Banescu, Morena Barboni, Andrea Morichetta, Andrea Polini and Edward Zulkoski. Enhanced mutation testing of smart contracts in support of code inspection. Proceedings of the 2024 IEEE International Conference on Blockchain and Cryptocurrency (ICBC) 2024
- Morena Barboni, Guglielmo De Angelis, Andrea Morichetta and Andrea Polini. CATANA: Replay Testing for the Ethereum Blockchain. Proceedings of the 35th IFIP International Conference on Testing Software and Systems (ICTSS) 2023
- 4. Morena Barboni, Antonia Bertolino and Guglielmo De Angelis. Flakiness goes live: Insights from an In Vivo testing simulation study. Information and Software Technology (IST), 2023
- Morena Barboni, Andrea Morichetta, Andrea Polini and Francesco Casoni. ReSuMo: a regression strategy and tool for mutation testing of solidity smart contracts. Software Quality Journal (SQJ), 2023
- 6. Morena Barboni, Andrea Morichetta and Andrea Polini. SuMo: A mutation testing approach and tool for the Ethereum blockchain. Journal of Systems and Software (JSS), 2023
- Morena Barboni, Francesco Casoni, Andrea Morichetta and Andrea Polini. ReSuMo: Regression Mutation Testing for Solidity Smart Contracts. Proceedings of the 15th International Conference on the Quality of Information and Communications Technology (QUATIC), 2022
- Morena Barboni, Andrea Morichetta and Andrea Polini. Smart Contract Testing: Challenges and Opportunities. Proceedings of the 5th IEEE/ACM International Workshop on Emerging Trends in Software Engineering for Blockchain (WETSEB), 2022
- Morena Barboni, Antonia Bertolino and Guglielmo De Angelis. What we talk about when we talk about software test flakiness. Proceedings of the 14th International Conference on the Quality of Information and Communications Technology (QUATIC), 2021
- Morena Barboni, Andrea Morichetta and Andrea Polini. SuMo: A Mutation Testing Strategy for Solidity Smart Contracts. Proceedings of the IEEE/ACM International Conference on Automation of Software Test (AST), 2021