



Leonardo Mariani

Full professor

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Short CV

RESEARCH INTERESTS

Leonardo Mariani's main research interest is in software engineering, with specific focus on software testing, static and dynamic software analysis, automated debugging, design of self-healing systems and automatic generation of program fixes. His research spans several domains, including cloud systems, mobile systems, cyber-physical systems, and Web applications. Leonardo Mariani has authored more than 100 papers appeared at top software engineering conferences and journals.

AWARDS AND RECOGNITIONS

- Awarded with the **ERC Consolidator Grant 2014** for the project entitled "*Learning from passing and failing executions at the speed of Internet*"
- Awarded with the **ERC Proof of Concept Grant 2018** for the project entitled "*Automated System Testing*"
- Nominated **IEEE Senior Member** in 2016, and **ACM Senior Member** from 2021
- **Best paper award** for the paper Luca Gazzola, Maayan Goldstein, Leonardo Mariani, Itai Segall, Luca Ussi: Automatic Ex-Vivo Regression Testing of Microservices. AST@ICSE 2020: 11-20"
- **Distinguished artifact award** for the paper "Oliviero Riganelli, Simone Paolo Mottadelli, Claudio Rota, Daniela Micucci, Leonardo Mariani: Data loss detector: automatically revealing data loss bugs in Android apps. ISSTA 2020: 141-152"
- **Best Paper Award** for the paper "Hana Chockler, Giovanni Denaro, Meijia Ling, Grigory Fedukovich, Antti E. J. Hyvrinen, Leonardo Mariani, Ali Muhammad, Manuel Oriol, Ajitha Rajan, Ondrej Sery, Natasha Sharygina, Michael Tautsching. PINCETTE - Validating Changes and Upgrades in Networked Software. Proceedings of the 17th European Conference on Software Maintenance and Reengineering (CSMR), EU Projects Track, 2013"
- **Distinguish reviewer award** at the International Conference on Software Engineering (ICSE), 2015

SELECTED SERVICES

- **Associated Editor** of IEEE Transactions on Software Engineering (**TSE**) from 2020
- **General Chair** of the International Conference on Mobile Software Engineering and Systems (**MOBILESoft**), 2022
- **Program Co-Chair** of the International Symposium on Software Reliability Engineering (**ISSRE**), 2021
- **Program Co-Chair** of the International Conference on Runtime Verification (**RV**), 2019

- **Program Co-Chair** of the International Conference on Mobile Software Engineering and Systems (**MOBILESoft**) 2020.
- **Program Co-chair** of the ACM Symposium on Applied Computing (SAC), track Software Verification and Testing (SVT), 2018 and 2019.
- **Committee member** and **organizer** of many tracks and events related to top software engineering conferences.

PROJECT ACTIVITY

- **Coordinator** of the H2020 ERC PoC “Automated System Testing” project 2019-2020
- **Coordinator** of the GAUSS National PRIN project 2017-2020
- **Coordinator** of the H2020 ERC CoG “Learn” project, 2015-2019
- **Principal Investigator** of the H2020 NGPaaS project 2017-2019
- **Italian representative** in the Management Committee of the COST Action ARVI 2014-2018
- **Principal Investigator** of the FP7 Pincette Project, 2010-2013
- Member of the research unit for many national and international projects

OTHER FACTS

- **Author of more than 100 papers**, including several papers appeared at top software engineering journals, such as TSE and TOSEM, and conferences, such as ICSE, ISSTA, ESEC/FSE, ASE, and ICST.
- **Director** of the **phd program in computer science** of the University of Milano – Bicocca from 2019
- **PhD** in Computer Science with the thesis entitled “Behavior Capture and Test: Dynamic Analysis of Component-Based Software” supervisor: Prof. Mauro Pezzè. University of Milano - Bicocca, 2005.
- **Visiting researcher** at the University of Paderborn (Germany), under the supervision of Prof. Reiko Heckel. This visit was supported by the European Research Training Network “Syntactic and Semantic Integration of Visual Modelling Techniques (Segravis)”, July-September 2004.

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