

# Fabio Palomba, Ph.D.

Curriculum Vitae – 3<sup>rd</sup> November 2025

## 1 PERSONAL INFORMATION

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**Name:** Fabio Palomba

**Date of Birth:** 3rd August, 1989

**Place of Birth:** Naples, Italy

**Address:** Via Giovanni Falcone, 41

84081 Baronissi (SA), Italy

**Phone:** +39 3477460798

**E-mail:** fpalomba@unisa.it

**Website:** <https://fpalomba.github.io/>

**Google Scholar profile:** <https://goo.gl/dorFrh>

## 2 JOB POSITIONS

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**1<sup>st</sup> March 2025 – Present**

**ASSOCIATE PROFESSOR**

*Department of Computer Science - University of Salerno, Italy*

**1<sup>st</sup> March 2022 – 28<sup>th</sup> February 2025**

**SENIOR ASSISTANT PROFESSOR (RTD-B)**

*Department of Computer Science - University of Salerno, Italy*

**1<sup>st</sup> January 2020 – 28<sup>th</sup> February 2022**

**JUNIOR ASSISTANT PROFESSOR (RTD-A)**

*Department of Computer Science - University of Salerno, Italy*

**1<sup>st</sup> January 2018 – 31<sup>st</sup> December 2019**

**SENIOR RESEARCH ASSOCIATE**

*Zurich Empirical Software Engineering Team - University of Zurich, Switzerland*

**1<sup>st</sup> January 2017 – 31<sup>st</sup> December 2017**

**POST-DOC RESEARCHER**

*Delft University of Technology (The Netherlands) and Eindhoven University of Technology (The Netherlands)*

## 3 RESEARCH INTERNSHIPS AND VISITING

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**30<sup>th</sup> June 2025 – 7<sup>th</sup> July 2025**

**VISITING PROFESSOR AT THE GRAN SASSO SCIENCE INSTITUTE, L'AQUILA, ITALY**

Visitor Professor at the Gran Sasso Science Institute (GSSI). During the visiting period, I delivered an advanced Ph.D. course entitled "Software Engineering with and for Artificial Intelligence".

**24<sup>th</sup> June 2024 – 1<sup>st</sup> July 2024**

**VISITING PROFESSOR AT THE GRAN SASSO SCIENCE INSTITUTE, L'AQUILA, ITALY**

Visitor Professor at the Gran Sasso Science Institute (GSSI). During the visiting period, I delivered an advanced Ph.D. course entitled "Software Engineering with and for Artificial Intelligence".

**1<sup>st</sup> February 2021 – 31<sup>st</sup> July 2021**

**VISITING PROFESSOR AT THE JHERONIMUS ACADEMY OF DATA SCIENCE, S'HERTOGENBOSCH, THE NETHERLAND**

6 months as Visitor Professor at the Jheronimus Academy of Data & Engineering (JADE) Lab. The research conducted in this period resulted in the definition of novel methods and techniques for the application of machine learning and natural language processing to various software engineering domains, like code quality of infrastructure code as well as the analysis of functional and non-functional requirements of mobile applications.

**1<sup>st</sup> March 2016 – 31<sup>st</sup> May 2016**

**VISITING PHD STUDENT AT THE DELFT UNIVERSITY OF TECHNOLOGY, DELFT, THE NETHERLAND**

3 months as Visitor Student. The research conducted resulted in the definition of a code smell detection approach based on textual information, and its empirical evaluation [C11, J8].

## 4 QUALIFICATIONS/LICENCES

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- 2020** ITALIAN SCIENTIFIC QUALIFICATION AS FULL PROFESSOR.  
*Sector 01/B1 – Informatica.*  
Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/1/4>.
- 2019** ITALIAN SCIENTIFIC QUALIFICATION AS FULL PROFESSOR.  
*Sector 09/H1 – Sistemi di Elaborazione delle Informazioni*  
Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/1/3>.
- 2019** ITALIAN SCIENTIFIC QUALIFICATION AS ASSOCIATE PROFESSOR.  
*Sector 01/B1 – Informatica.*  
Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito/01%252FB1/2/1>.
- 2019** ITALIAN SCIENTIFIC QUALIFICATION AS ASSOCIATE PROFESSOR.  
*Sector 09/H1 – Sistemi di Elaborazione delle Informazioni*  
Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito/09%252FH1/2/1>.
- 2014** LICENCE OF COMPUTER ENGINEER  
*University of Molise, Italy*

## 5 EDUCATION

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- 2017** DEGREE OF EUROPEAN DOCTOR OF PHILOSOPHY (PH.D.) IN MANAGEMENT & INFORMATION TECHNOLOGY  
*University of Salerno, Italy*  
Funded by University of Salerno and University of Molise.  
Advisor: Prof. Andrea De Lucia
- 2013** MASTER'S DEGREE (M.Sc.) IN COMPUTER SCIENCE  
*University of Salerno, Italy*  
110/110 magna cum laude and special commendation by the commission  
Advisor: Prof. Andrea De Lucia
- 2011** BACHELOR'S DEGREE (B.Sc.) IN COMPUTER SCIENCE  
*University of Molise, Italy*  
110/110 cum laude  
Advisor: Prof. Rocco Oliveto

## 6 RESEARCH

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### 6.1 SUMMARY OF THE MAIN RESEARCH TOPICS AND ACHIEVEMENTS

My research activity is around Software Engineering and is mainly focused (but not limited) to the following topics:

- Bad Code Smell Detection and Management;
- Test Code Quality;
- Bug Prediction;
- Mobile Software Engineering;
- Social Aspects in Software Engineering;
- Traceability Management;

- Software Engineering with and for Artificial Intelligence;
- Metaverse Engineering;
- Mining Software Repositories;
- Empirical Software Engineering.

In these research topics I have published over 200 papers in international journals and conferences indexed in DBLP, SCOPUS (number of citations = 7,876; H-index = 51), and Google Scholar (number of citations = 13,168; H-index = 63). My overall m-index (that is, the H-index normalized by the number of years of activity) is 4.9 and 6 considering SCOPUS and Google Scholar, respectively. I have been the recipient of multiple awards, including:

- Since 2024, I am also included in the **World's Top 2% Scientists** ranking, a highly prestigious global recognition compiled annually by Stanford University in collaboration with Elsevier (<https://topscinet.com>). The ranking evaluates over 200,000 researchers worldwide across 22 scientific fields and 174 sub-disciplines, using data from Scopus and standardized bibliometric indicators, including total citations, H-index, co-authorship-adjusted HM-index, citation position metrics, and a composite C-score.
- **IEEE/TCSE Rising Star Award (2023)**, a highly prestigious international recognition conferred annually by the IEEE Technical Council on Software Engineering (TCSE), i.e., the global governing body of IEEE activities in software engineering, to a single early- to mid-career researcher worldwide. The award honors individuals who have demonstrated outstanding research leadership and made influential, sustained contributions to the advancement of software engineering theory, practice, and community service. I am only the second Italian researcher ever to receive this distinction since its establishment.
- **IEEE Computer Society Best Thesis Award (2017)**, a prestigious national award conferred annually by the IEEE Computer Society Italy Section to the best doctoral dissertation in computer science and engineering. I am the only researcher in software engineering ever to have received this distinction.
- **Two ACM/SIGSOFT Distinguished Paper Awards, one IEEE/TCSE Distinguished Paper Award, and one Best Paper Award Honorable Mention**, awarded to papers ranked among the top 1–2% of submissions at flagship ACM/IEEE conferences, like ICSE, ASE, and CSCW.
- **Bronze Medal at the ACM/SIGSOFT Student Research Competition (2016)**, awarded at an international ACM competition recognizing graduate students for the soundness, originality, and quality of their research contributions.
- **20 Outstanding/Distinguished Reviewer Awards**, received from leading journals and conferences (e.g., IEEE Transactions on Software Engineering, Empirical Software Engineering, and ICSE) for high-quality peer-review service.

My research significantly contributes to the **design and evolution of efficient and dependable software systems**, particularly in the context of **distributed, autonomous, and AI-enabled applications**. I have developed and evaluated methodologies to enhance **reliability and performance, especially in critical environments such as mobile, cloud-based, and AI-intensive systems**. These contributions are reflected in my projects (e.g., PRIN, SNSF Ambizione) and publications.

In the following, I describe the main research topics of interest.

**Bad Code Smell Detection and Management:** Bad code smells have been defined by Martin Fowler as symptoms of poor design and implementation choices. Bad smells are usually introduced in software systems because developers poorly conceived the design of a code component. Complex Class, *i.e.*, a class that contains complex methods and it is very large in terms of LOC; or God Class, *i.e.*, a class that does too much/knows too much about other classes, are only some examples of a plethora of bad smells identified in well-known catalogues. Recent empirical studies showed that code smells hinder comprehensibility and possibly increase change- and fault- proneness. For these reasons, the main research topics in this area are the definition of new approaches able to (i) detect bad code smells in the source code; (ii) study the reason behind their introduction and removal; (iii) study the impact of code smells on non-functional attributes of source code, and (iv) recommend their removal via appropriate refactoring operations.

**Test Code Quality:** Test cases form the first line of defense against the introduction of software faults. As such, with the help of testing frameworks like, for instance, JUnit developers create test methods and run these periodically on their code.

To support the testing activities, the research community mainly focused on the definition of techniques and tools for (i) the automatic generation of test cases, or (ii) the improvement of the effectiveness of test classes with respect to code coverage. In this context, a little knowledge on the impact and the usefulness of code quality is available. The main research topic in this area relates to the definition of quality-aware methodologies for the automatic generation of test cases and the investigation of the impact of test smells, i.e., symptoms of the presence of bad design choices in test code, on the effectiveness and the maintainability of test cases.

**Bug Prediction:** Allocating resources for the testing and the verification of all the parts of a large software system is a cost-prohibitive task. To alleviate this issue, prediction models able to identify portions of source code more prone to contain bugs have been the object of several studies. **Bug prediction models are essential for ensuring the reliability of complex and distributed software systems.** The main research topic is the definition of accurate prediction models that, on the one hand use a suitable set of predictors able to characterize the bug-proneness of code components, and on the other hand is able to use appropriate machine learning techniques to distinguish those components affected by bug.

**Mobile Software Engineering:** According to recent statistics, over two billion users rely on smartphones and tablets to perform their daily activities. Not only do users play games or send messages, but they also use mobile apps for every type of need, including social and emergency connectivity. Mobile software engineering is the field responsible for the definition of techniques able to improve the life of both mobile developers and end users. The main research topic includes the application of mining software repositories techniques in the context of user reviews, with the goal of extracting actionable knowledge to incorporate in novel techniques and tools helping developers in performing their activities. **The techniques developed for analyzing mobile applications often target distributed environments and require efficient and dependable execution models.**

**Social Aspects in Software Engineering:** The success of software engineering projects is in large part dependent on social and organizational aspects of the development community. In this context, the role played by social aspects in software engineering has been mainly investigated in terms of socio-technical congruence, i.e., the coordination between social relationships and technical aspects of the source code. However, a few knowledge on the impact of social debt, i.e., sub-optimal characteristics or patterns across the organizational structure around a software system that may lead to additional unforeseen project costs, is available. Key research topics in this area regard **the understanding of the interplay between social and technical debt**, as well as the **definition of techniques and tools able to make developers and project managers aware of the presence of social debt in the community.**

**Traceability Management:** Traceability has been defined as “the ability to describe and follow the life of an artifact, in both a forwards and backwards direction”. Traceability links help software engineers to understand the relationships and dependencies among various software artifacts (requirements, code, tests, etc.) developed during the software lifecycle. The two main research topics related to the traceability management are **event-based systems for traceability management and information retrieval-based methods and tools** supporting the software engineer in the traceability link recovery.

**Software Engineering with and for Artificial Intelligence:** Software Engineering with and for Artificial Intelligence (AI) involves leveraging AI techniques and methodologies to enhance various aspects of software engineering processes and outcomes. **These methodologies are foundational for the development of autonomous systems that need to ensure high reliability and performance under uncertain environments.** The two main research areas relate to improving the way AI can assist developers during software engineering tasks and defining novel software engineering practices and instruments to enable trustworthy AI. In most cases, advances in these fields are driven by empirical analyses and experiments aiming at informing the synergies between software engineering and artificial intelligence.

**Metaverse Engineering:** The metaverse marks a new frontier in digital interaction, merging physical and virtual realities into persistent, immersive, and collaborative environments. Engineering such systems introduces challenges beyond traditional software development, including 3D content generation, interoperability, user embodiment, ethics, and scalability. My research focuses on **defining methods, tools, and empirical foundations for the systematic and responsible development of metaverse applications.** Key topics include: (i) software engineering practices and frameworks for metaverse development; (ii) AI- and photogrammetry-based automation of 3D scene creation; (iii) educational metaverses and the design of immersive learning experiences; and (iv) ethical and human-centered aspects, such as emotion recognition, privacy, and fairness.

**Mining Software Repositories:** Software repositories such as source control systems, archived communications between project personnel, and defect tracking systems are used to help in managing the progress of software projects. Software practitioners and researchers recognize the benefits of mining this information to support the maintenance and the evolution of software systems by improving software design/reuse and empirically validating novel ideas and techniques.

Research is now proceeding to uncover the ways in which mining these repositories can help **to understand software development and software evolution, to support predictions about software development, and to exploit this knowledge in planning future development.**

**Empirical Software Engineering:** Empirical software engineering is a sub-domain of software engineering focusing on experiments on software systems (software products, processes, and resources). It is interested in **devising experiments on software, in collecting data from these experiments, and in devising laws and theories from this data.** Proponents of experimental software engineering advocate that the nature of software is such that we can advance the knowledge on software through experiments only. The scientific method suggests a cycle of observations, laws, and theories to advance science. Empirical software engineering applies this method to software.

## 6.2 PH.D. STUDENTS ADVISING/CO-ADVISING

To date, I have supervised or am supervising **8 Ph.D. students as main advisor** and **8 Ph.D. students as co-advisor** on topics spanning **software engineering, artificial intelligence, metaverse engineering,** and their intersections.

### Main Advisor

- 2025 - current**     **ALFONSO CANNAVALE**  
*Ph.D. Student at the University of Salerno, working on topics connected to the testing of machine learning-enabled software systems. Google Scholar page:*  
<https://scholar.google.com/citations?user=DbUDUT8AAAAJ&hl=it&oi=ao>
- 2024 - current**     **ANTONIO DELLA PORTA**  
*Ph.D. Student at the University of Salerno, working on topics connected to the quality aspects of prompt engineering techniques for Large Language Models. Google Scholar page:*  
<https://scholar.google.com/citations?user=tU51c0cAAAAJ&hl=it&oi=ao>
- 2023 - current**     **GIANMARIO VORIA**  
*Ph.D. Student at the University of Salerno, working on topics connected to the engineering of fairness properties in machine learning-enabled software systems. Google Scholar page:*  
<https://scholar.google.com/citations?user=W6T8YkqAAAAJ&hl=it&oi=ao>
- 2023 - current**     **VIVIANA PENTANGELO**  
*Ph.D. Student at the University of Salerno, working on topics connected to the engineering of virtual reality and metaverse environments for educational purposes. Google Scholar page:*  
<https://scholar.google.com/citations?user=JLi4PnQAAAAJ&hl=it&oi=ao>
- 2022 - 2025**     **GILBERTO RECUPITO**  
*Ph.D. Student at the University of Salerno, working on topics connected to the analysis, detection, and refactoring of artificial intelligence debt in machine learning-enabled software systems. Google Scholar page:*  
<https://scholar.google.com/citations?user=RI6vnGIAAAAJ&hl=it&oi=ao>
- 2022 - 2025**     **VINCENZO DE MARTINO**  
*Ph.D. Student at the University of Salerno, working on topics connected to the analysis and optimization of non-functional requirements in machine learning-enabled software systems. Google Scholar page:*  
<https://scholar.google.com/citations?user=XNqzY0IAAAAAJ&hl=it&oi=ao>
- 2020 - 2023**     **GIAMMARIA GIORDANO**  
*Ph.D. Student at the University of Salerno, working on topics connected to the identification of privacy concerns in software projects using artificial intelligence techniques. After the Ph.D., Giammaria is currently a Post-Doc Researcher at the University of Salerno (Italy). Google Scholar page:*  
<https://scholar.google.com/citations?user=nrk-z3oAAAAJ&hl=it&oi=ao>
- 2020 - 2023**     **EMANUELE IANNONE**  
*Ph.D. Student at the University of Salerno, working on topics connected to the analysis and automated*

detection/refactoring of software vulnerabilities. After the Ph.D., Emanuele is currently a Post-Doc Researcher at the Institute of Software Security at Hamburg University of Technology (Germany). Google Scholar page: <https://scholar.google.com/citations?user=tjOanfQAAAAJ&hl=it&oi=ao>

### **Co-Advisor**

- 2022 -** **DARIO DI DARIO**  
**2025** *Ph.D. Student at the University of Salerno, working on topics connected to the engineering of virtual reality and metaverse environments for educational purposes. Main Advisor: Carmine Gravino. Google Scholar page: <https://scholar.google.com/citations?user=Zx7w0SYAAAAJ&hl=it&oi=ao>*
- 2021 -** **STEFANO LAMBIASE**  
**2024** *Ph.D. Student at the University of Salerno, working on topics connected to the analysis of software ecosystems, with a particular focus on socio-technical concerns. Main Advisor: Prof. Filomena Ferrucci. After the Ph.D., Stefano is currently an Assistant Professor at the Aalborg University (Denmark). Google Scholar page: <https://scholar.google.com/citations?user=2fHPedkAAAAJ&hl=it&oi=ao>*
- 2021 -** **GIULIA SELLITTO**  
**2024** *Ph.D. Student at the University of Salerno, working on topics connected to the use of meta-heuristics for the identification of software vulnerabilities. Main Advisor: Prof. Filomena Ferrucci. After the Ph.D., Giulia is currently a High-School Teacher in Computer Science. Google Scholar page: <https://scholar.google.com/citations?user=FIHGxnMAAAAJ&hl=it&oi=ao>*
- 2020 -** **VALERIA PONTILLO**  
**2023** *Ph.D. Student at the University of Salerno, working on topics connected to test code quality, with a particular focus on the use of artificial intelligence for the identification of flaky tests. Main Advisor: Prof. Filomena Ferrucci. After the Ph.D., Valeria is currently a Post-Doc Researcher at the Gran Sasso Science Institute (Italy). Google Scholar page: <https://scholar.google.com/citations?user=rhiPYd4AAAAJ&hl=it&oi=ao>*
- 2020 -** **MANUEL DE STEFANO**  
**2023** *Ph.D. Student at the University of Salerno, working on topics connected to the code smell detection and refactoring. Main Advisor: Prof. Andrea De Lucia. After the Ph.D., Manuel is currently a Data Scientist at CINECA (Italy). Google Scholar page: <https://scholar.google.com/citations?user=6fELld4AAAAJ&hl=it&oi=ao>*
- 2019 -** **LARISSA BRAZ**  
**2022** *Ph.D. Student at the University of Zurich, working on topics connected to the software testing and vulnerabilities - hired under the Ambizione project of which I am scientific coordinator. Main Advisor: Prof. Alberto Bacchelli. After the Ph.D., Larissa is currently a Security Engineer at Google (Switzerland). Google Scholar page: <https://scholar.google.com/citations?user=k-Yh9ZQAAAAJ&hl=it&oi=ao>*
- 2019 -** **FABIANO PECORELLI**  
**2022** *Ph.D. Student at the University of Salerno, working on topics connected to software testing and code smell detection. Main Advisor: Prof. Andrea De Lucia. After the Ph.D., Fabiano is currently an Associate Professor at Pegaso University (Italy). Google Scholar page: <https://scholar.google.com/citations?user=HVvH1tYAAAAJ&hl=it&oi=ao>*
- 2017 -** **GIOVANNI GRANO**  
**2021** *Ph.D. Student at the University of Zurich, working on topics connected to software testing. I had the role of mentor in the context of the Giovanni's Ph.D. Main Advisor: Prof. Harald C. Gall. After the Ph.D., Giovanni is currently a Senior Software Engineering at LocalStack (Switzerland). Google Scholar page: <https://scholar.google.com/citations?user=UuGF6ScAAAAJ&hl=it&oi=ao>*

## 6.3 RESEARCH ASSISTANTS ADVISING

To date, I have supervised or am supervising **5 research assistants**, working on projects related to **software engineering** and **artificial intelligence**.

- 2025**     **MATTEO CICALES**  
*Research Assistant at the University of Salerno, working on topics connected to the security of machine learning-enabled software systems. Google Scholar page: <https://scholar.google.com/citations?user=TE-dfuMAAAAJ&hl=it&oi=ao>*
- 2024 -**     **ALESSANDRA PARZIALE**  
**2025**     *Research Assistant at the University of Salerno, working on topics connected to the fairness of machine learning-enabled software systems. After this experience, Alessandra was admitted as a Ph.D. student at the Gran Sasso Science Institute (GSSI), Italy. Google Scholar page: <https://scholar.google.com/citations?user=c7uV7wIAAAAJ&hl=it&oi=ao>*
- 2024 -**     **ALFONSO CANNAVALE**  
**2025**     *Research Assistant at the University of Salerno, working on topics connected to the testing of machine learning-enabled software systems. Google Scholar page: <https://scholar.google.com/citations?user=DbUDUT8AAAAJ&hl=it&oi=ao>*
- 2022 -**     **ALEXANDRA SHEYKINA**  
**2025**     *Research Assistant at the University of Salerno, working on topics connected to the engineering of security of machine learning-enabled software systems. Personal webpage: <https://www.linkedin.com/in/alexandra-sheykina-10762895/>*
- 2022**     **CARMINE FERRARA**  
*Research Assistant at the University of Salerno, working on topics connected to the engineering of fairness properties in machine learning-enabled software systems. After the research fellowship, Carmine is currently a Software Engineer at NTT Data Italy Personal webpage: <https://www.linkedin.com/in/carmine-ferrara-67412a167/>*

## 7 TEACHING

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My teaching activity spans Ph.D., Master's, and Bachelor's levels, covering topics in **Artificial Intelligence**, **Software Engineering**, **Software Quality**, and **Empirical Research Methods**. Over my career, I have served as **Lecturer in eight courses** and **Co-lecturer in three courses**, for a **total of eleven distinct courses delivered across Italy, Switzerland, and the Netherlands**. In addition, during my Ph.D. studies, I served as teaching assistant for several undergraduate and graduate courses in software engineering and programming, gaining early experience in academic instruction and student mentoring.

As a Lecturer, I hold full responsibility for course design, development of teaching materials, delivery of lectures and seminars, definition and grading of examinations, and supervision of student projects. As a Co-lecturer, I actively collaborate with the main instructor by delivering selected lectures, supporting laboratory and project-based learning, and contributing to student evaluation and feedback.

My teaching approach integrates **research-driven content**, **active learning**, and **project-oriented assessment**, encouraging students to connect academic knowledge with practical problem-solving and real-world applications.

### 7.1 LECTURER

#### Ph.D. Degree Level

- 2023 -**     **SCIENTIFIC WRITING AND PUBLISHING**

**current** Lecturer at the Ph.D. Degree of Computer Science at the University of Salerno. ETCS: 1.5 (9 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2024&id=516485&cld=10000-2024&pId=NO\\*N0\\*S1](https://docenti.unisa.it/027888/didattica?anno=2024&id=516485&cld=10000-2024&pId=NO*N0*S1)

**2022 -** EMPIRICAL RESEARCH METHODS  
**2023** Lecturer at the Ph.D. Degree of Computer Science at the University of Salerno. ETCS: 1.5 (9 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2022&id=516492&cld=10000-2022&pId=NO\\*N0\\*S2](https://docenti.unisa.it/027888/didattica?anno=2022&id=516492&cld=10000-2022&pId=NO*N0*S2)

**2020 –** PH.D. 101: A SEMINAR CYCLE  
**current** Lecturer at the Ph.D. Degree of Computer Science at the University of Salerno.

### Master's Degree Level

**2021 -** SOFTWARE ENGINEERING FOR ARTIFICIAL INTELLIGENCE  
**current** Lecturer at the Master's Degree of Computer Science at the University of Salerno. ETCS: 6 (48 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2024&id=515112&cld=10007-2016&pId=NO\\*N0\\*S2](https://docenti.unisa.it/027888/didattica?anno=2024&id=515112&cld=10007-2016&pId=NO*N0*S2)

**2018 -** SOFTWARE DEPENDABILITY  
**2022** Lecturer at the Master's Degree of Computer Science at the University of Salerno. ETCS: 9 (72 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2021&id=512708&cld=10006-2016&pId=NO\\*N0\\*S2](https://docenti.unisa.it/027888/didattica?anno=2021&id=512708&cld=10006-2016&pId=NO*N0*S2)

### Bachelor's Degree Level

**2020 –** FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE  
**current** Lecturer at the Bachelor's Degree of Computer Science at the University of Salerno. ETCS: 6 (48 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2024&id=511550&cld=9999-2017&pId=NO\\*N0\\*S1](https://docenti.unisa.it/027888/didattica?anno=2024&id=511550&cld=9999-2017&pId=NO*N0*S1)

**2017 –** ADVANCED SOFTWARE ENGINEERING  
**2018** Lecturer at the Bachelor's Degree of Computer Science at the University of Zurich. ETCS: 3 (24 hours)

**2018** SOFTWARE ENGINEERING METHODS  
Lecturer at the Bachelor's Degree of Computer Science at the Delft University of Technology. ETCS: 3 (24 hours)

## 7.2 CO-LECTURER

### Master's Degree Level

**2024 -** SOFTWARE PROJECT MANAGEMENT  
**current** Co-lecturer at the Master's Degree of Computer Science at the University of Salerno. ETCS: 2 (16 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2024&id=507519&cld=10004-2016&pId=NO\\*N0\\*S1](https://docenti.unisa.it/027888/didattica?anno=2024&id=507519&cld=10004-2016&pId=NO*N0*S1)

**2018 -** SOFTWARE TESTING  
**2019** Co-Lecturer at the Bachelor's and Master's Degrees (joint course) of Computer Science at the University of Zurich.  
ETCS: 3 (24 hours)

### Bachelor's Degree Level

**2021 -** SOFTWARE ENGINEERING  
**current** Co-lecturer at the Bachelor's Degree of Computer Science at the University of Salerno. ETCS: 4.5 (36 hours)  
Webpage: [https://docenti.unisa.it/027888/didattica?anno=2024&id=507546&cld=9999-2017&pId=MODULO\\_3\\*RESTO\\_1\\*S1](https://docenti.unisa.it/027888/didattica?anno=2024&id=507546&cld=9999-2017&pId=MODULO_3*RESTO_1*S1)

### 7.3 TEACHING ASSISTANCE

- 2016**      **PROGRAMMING LANGUAGES**  
*Teaching Assistant in the course of Prof. Maurizio Tucci at the Bachelor Degree of Computer Science at the University of Salerno*
- 2016**      **PROGRAMMING LANGUAGES II**  
*Teaching Assistant in the course of Prof. Carmine Gravino at the Bachelor Degree of Computer Science at the University of Salerno*
- 2016**      **SOFTWARE ENGINEERING II: MAINTENANCE, EVOLUTION, AND SOFTWARE PROJECT MANAGEMENT**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Computer Science at the University of Salerno*
- 2016**      **SOFTWARE ENGINEERING I**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Bachelor Degree of Computer Science at the University of Salerno*
- 2015**      **SOFTWARE ENGINEERING II: MAINTENANCE AND TESTING**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Computer Science at the University of Salerno*
- 2015**      **SOFTWARE ENGINEERING I**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Bachelor Degree of Computer Science at the University of Salerno*
- 2014**      **IT PROJECT AND SERVICE MANAGEMENT**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Management and Information Technology at the University of Salerno*
- 2014**      **DECISION SUPPORT SYSTEMS**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Business Economy at the University of Salerno.*

### 7.4 THESES ADVISING/CO-ADVISING

I supervise a significant number of Bachelor's and Master's theses each academic year. This is made possible by adopting a **structured and scalable supervision model** that balances efficiency with quality. Communication is primarily managed through **asynchronous channels** (e.g., Discord), enabling **continuous interaction** while reducing the **overhead of frequent meetings**. Supervision is further supported by a **team of Ph.D. students who serve as co-advisors**, providing day-to-day guidance and complementary expertise.

At the beginning of each thesis, I establish a clear **supervision framework in collaboration with the student**, defining research objectives, methodological approach, and key milestones. This shared plan fosters **autonomy** and **self-organization** while ensuring consistent alignment with the broader research direction. Students submit **weekly asynchronous progress updates**, allowing me to **monitor** their work and promptly address emerging issues. When necessary, particularly in the case of conceptual or technical challenges, I **schedule focused synchronous meetings** to provide targeted feedback and remove obstacles. This model enables the effective supervision of multiple concurrent theses while promoting independence, accountability, and a **collaborative research culture within my group**.

To date, I **have served as the main advisor of more than 400 theses in total**, including approximately 330 Bachelor's theses and 80 Master's theses. The significant increase in the number of supervised students is largely due to my role as Lecturer of the course Fundamentals of Artificial Intelligence, which attracts a high number of enrolled students and project-based theses each academic year. Several of my students have published the result of their thesis work in international venues. For the sake of readability, the following reports an aggregated overview of the theses I have supervised in recent years. The complete list is available upon request.

| Year         | Bachelor's Theses | Master's Theses | Total      | Role                                                                                          |
|--------------|-------------------|-----------------|------------|-----------------------------------------------------------------------------------------------|
| 2025         | 62                | 10              | 72         | Main advisor; strong expansion due to my growing presence in Bachelor's and Master's courses. |
| 2024         | 90                | 20              | 110        |                                                                                               |
| 2023         | 85                | 19              | 104        |                                                                                               |
| 2022         | 88                | 14              | 102        |                                                                                               |
| 2021         | 10                | 4               | 14         |                                                                                               |
| 2020         | 0                 | 2               | 2          | Co-Advisor; involved in the joint supervision of international students.                      |
| 2019         | 1                 | 3               | 4          |                                                                                               |
| 2018         | 1                 | 0               | 1          |                                                                                               |
| 2017         | 1                 | 0               | 1          |                                                                                               |
| <b>Total</b> | <b>348</b>        | <b>72</b>       | <b>420</b> |                                                                                               |

## 8 PROFESSIONAL ACTIVITIES

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### 8.1 COMMUNITY SHEPHERDING ACTIVITIES

**2025-2028** **ACM/SIGSOFT EXECUTIVE COMMITTEE MEMBER & CHAIR OF THE ACM/SIGSOFT CAPS PROGRAM**  
*The Association for Computing Machinery (ACM) Special Interest Group on Software Engineering (SIGSOFT) is the world's leading professional organization dedicated to advancing the theory and practice of software engineering. As a member of the ACM/SIGSOFT Executive Committee Member (<https://www2.sigsoft.org/execcontact/>), I serve as Chair of the ACM/SIGSOFT Travel Support and Childcare Assistance at Conferences Program (CAPS, <https://www2.sigsoft.org/caps/capsmain/>). The program aims at providing support for students and professionals to attend the conferences and events sponsored by ACM SIGSOFT. CAPS also provides support for childcare. My role is to define and apply a process for ranking applications for students to attend SIGSOFT-sponsored conferences to receive travel funding.*

### 8.2 STEERING COMMITTEE MEMBERSHIPS

**2025-current** **SANER – THE INTERNATIONAL CONFERENCE ON SOFTWARE ANALYSIS, EVOLUTION, AND REENGINEERING**  
**ICORE CONFERENCE RANKING: A**  
*Steering Committee Member – Elected in 2025.*  
 Link: <https://conf.researchr.org/committee/saner-2026/saner-2026-steering-committee>

**2021-2024** **ICPC – THE INTERNATIONAL CONFERENCE ON PROGRAM COMPREHENSION**  
**ICORE CONFERENCE RANKING: A**  
*Steering Committee Member – Elected in 2021.*  
 Link: <https://www.program-comprehension.org/steeringcommittee.html>

**2020-2022** **MALTESQUE - THE INTERNATIONAL WORKSHOP ON MACHINE LEARNING TECHNIQUES FOR SOFTWARE QUALITY EVALUATION**  
*Steering Committee Member – Elected in 2020.*

### 8.3 ORGANIZATION COMMITTEE PARTICIPATION (SELECTED)

#### 8.3.1 ORGANIZATIONAL COMMITTEE (CO-)CHAIR

**2026** **EXPLAINABLE AND TRUSTWORTHY APPLICATIONS TRACK CHAIR**  
*52<sup>nd</sup> Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA), Krakow, Poland.*  
**ICORE CONFERENCE RANKING: B**

**2026** **JOURNAL FIRST TRACK CHAIR**  
*9<sup>th</sup> International Conference on Technical Debt (TechDebt), Rio de Janeiro, Brazil.*  
**ICORE CONFERENCE RANKING: B**

- 2025**      **STUDENT VOLUNTEER CHAIR**  
*51<sup>st</sup> Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA), Salerno, Italy.*  
**ICORE CONFERENCE RANKING: B**
- 2024**      **LOCAL ARRANGEMENT CO-CHAIR**  
*17<sup>th</sup> International Conference on Evaluation and Assessment in Software Engineering (EASE 2024), Salerno, Italy.*  
**ICORE CONFERENCE RANKING: A**
- 2024**      **PROGRAM CO-CHAIR**  
*IEEE International Conference on Software Analysis, Engineering, and Reengineering (SANER 2024), Rovaniemi, Finland.*  
**ICORE CONFERENCE RANKING: A**
- 2023**      **ASSOCIATE CHAIR**  
*ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2023), Minneapolis, USA.*  
**ICORE CONFERENCE RANKING: A**
- 2022**      **NEW IDEAS AND EMERGING RESULTS (NIER) TRACK CO-CHAIR**  
*International Conference on Automated Software Engineering (ASE 2022), Ann Arbor, Michigan, USA*  
**ICORE CONFERENCE RANKING: A\***
- 2022**      **NEW IDEAS AND EMERGING RESULTS (NIER) TRACK CO-CHAIR**  
*International Conference on Mobile Software Engineering and Systems (MobileSoft 2022), Pittsburgh, Pennsylvania, USA*  
**ICORE CONFERENCE RANKING: N/A**
- 2022**      **NEW IDEAS AND EMERGING RESULTS (NIER) TRACK CO-CHAIR**  
*International Conference on Source Code Analysis and Manipulation (SCAM 2022), Limassol, Cyprus*  
**ICORE CONFERENCE RANKING: C**
- 2022**      **FOSS AWARD CO-CHAIR**  
*International Conference on Mining Software Repositories (MSR 2022), Pittsburgh, Pennsylvania, USA*  
**ICORE CONFERENCE RANKING: A**
- 2022**      **INDUSTRIAL TRACK CO-CHAIR**  
*International Conference on Software Analysis, Evolution, and Reengineering (SANER 2022), Honolulu, Hawaii, USA*  
**ICORE CONFERENCE RANKING: A**
- 2021**      **PROGRAM CO-CHAIR**  
*International Conference on Program Comprehension (ICPC 2021), Madrid, Spain*  
**ICORE CONFERENCE RANKING: A**
- 2021**      **SPECIAL ISSUE CHAIR**  
*International Conference on Open-Source Systems (OSS 2021), Lahti, Finland*  
**ICORE CONFERENCE RANKING: N/A**
- 2021**      **ASSOCIATE CHAIR**  
*ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021), Virtual*  
**ICORE CONFERENCE RANKING: A**
- 2018**      **PUBLICITY CO-CHAIR**  
*International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Campobasso, Italy*  
**ICORE CONFERENCE RANKING: A**

- 2015**      **WEB CHAIR**  
*International Conference on Program Comprehension (ICPC 2015), Florence, Italy*  
**ICORE CONFERENCE RANKING: A**
- 8.3.2**      **ORGANIZATIONAL COMMITTEE MEMBER**
- 2026**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Engineering (ICSE), Ottawa, Canada.*  
**ICORE CONFERENCE RANKING: A\***
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*IEEE/ACM International Conference on Automated Software Engineering (ASE), Seoul, South Korea.*  
**ICORE CONFERENCE RANKING: A\***
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*IEEE International Conference on Software Maintenance and Evolution (ICSME), Auckland, New Zealand.*  
**ICORE CONFERENCE RANKING: A**
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*ACM Conference on the Foundations of Software Engineering (ESEC/FSE), Trondheim, Norway.*  
**ICORE CONFERENCE RANKING: A\***
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Engineering (ICSE), Ottawa, Canada.*  
**ICORE CONFERENCE RANKING: A\***
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*IEEE International Conference on Software Analysis, Engineering, and Reengineering (SANER 2025), Montreal, Canada.*  
**ICORE CONFERENCE RANKING: A**
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Mining Software Repositories (MSR 2025), Ottawa, Canada.*  
**ICORE CONFERENCE RANKING: A**
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Program Comprehension (ICPC 2025), Ottawa, Canada.*  
**ICORE CONFERENCE RANKING: A**
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*The Genetic and Evolutionary Computation Conference (GECCO), Lisbon, Portugal.*  
**ICORE CONFERENCE RANKING: A**
- 2025**      **PROGRAM COMMITTEE MEMBER**  
*28<sup>th</sup> European Conference on Artificial Intelligence (ECAI), Bologna, Italy.*  
**ICORE CONFERENCE RANKING: A**
- 2024**      **PROGRAM COMMITTEE MEMBER**  
*ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Singapore.*  
**ICORE CONFERENCE RANKING: A\***
- 2024**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Automated Software Engineering (ASE), Sacramento, USA.*  
**ICORE CONFERENCE RANKING: A\***
- 2024**      **PROGRAM COMMITTEE MEMBER**  
*IEEE International Conference on Software Maintenance and Evolution (ICSME), Flagstaff, Arizona, USA.*

**ICORE CONFERENCE RANKING: A**

- 2024**      **PROGRAM COMMITTEE MEMBER**  
*27<sup>th</sup> European Conference on Artificial Intelligence (ECAI), Santiago De Compostela, Spain.*  
**ICORE CONFERENCE RANKING: A**
- 2023**      **PROGRAM COMMITTEE MEMBER**  
*The Genetic and Evolutionary Computation Conference (GECCO), Lisbon, Portugal.*  
**ICORE CONFERENCE RANKING: A**
- 2023**      **PROGRAM COMMITTEE MEMBER**  
*ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Singapore.*  
**ICORE CONFERENCE RANKING: A\***
- 2023**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Engineering (ICSE), Melbourne, Australia.*  
**ICORE CONFERENCE RANKING: A\***
- 2021**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Automated Software Engineering (ASE 2021), Melbourne, Australia*  
**ICORE CONFERENCE RANKING: A\***
- 2021**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Analysis, Evolution, and Reengineering (SANER 2021), Virtual*  
**ICORE CONFERENCE RANKING: A**
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Analysis, Evolution, and Reengineering (SANER 2020), London, Canada*  
**ICORE CONFERENCE RANKING: A**
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Maintenance and Evolution (ICSME 2020), Adelaide, Australia*  
**ICORE CONFERENCE RANKING: A**
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Automated Software Engineering (ASE 2020), Melbourne, Australia*  
**ICORE CONFERENCE RANKING: A\***
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Mining Software Repositories (MSR 2020), Seoul, South Korea*  
**ICORE CONFERENCE RANKING: A**
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Program Comprehension (ICPC 2020), Seoul, South Korea*  
**ICORE CONFERENCE RANKING: A**
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Maintenance and Evolution (ICSME 2019), Cleveland, USA*  
**ICORE CONFERENCE RANKING: A**
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Program Comprehension (ICPC 2019), Montreal, Canada*  
**ICORE CONFERENCE RANKING: A**
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Mining Software Repositories (MSR 2019), Montreal, Canada*

**ICORE CONFERENCE RANKING: A**

- 2019**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Analysis, Evolution, and Reengineering (SANER 2019), Hangzhou, China*  
**ICORE CONFERENCE RANKING: A**
- 2018**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Program Comprehension (ICPC 2018), Gothenburg, Sweden*  
**ICORE CONFERENCE RANKING: A**
- 2018**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Mining Software Repositories (MSR 2018), Gothenburg, Sweden*  
**ICORE CONFERENCE RANKING: A**
- 2018**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Campobasso, Italy*  
**ICORE CONFERENCE RANKING: A**
- 2017**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Software Maintenance and Evolution (ICSME 2017), Shanghai, China*  
**ICORE CONFERENCE RANKING: A**
- 2017**      **PROGRAM COMMITTEE MEMBER**  
*International Conference on Program Comprehension (ICPC 2016), Buenos Aires, Argentina*  
**ICORE CONFERENCE RANKING: A**
- 2016**      **PROGRAM COMMITTEE MEMBER**  
*Working Conference on Mining Software Repositories – Mining Challenge Track (MSR 2016), Austin, Texas*  
**ICORE CONFERENCE RANKING: A**

## 8.4 JOURNAL SERVICES

- 2024-current**      **MEMBER OF THE BOARD OF DISTINGUISHED REVIEWERS – ACM TRANSACTIONS ON SOFTWARE ENGINEERING AND METHODOLOGY (TOSEM) – LINK: [HTTPS://DL.ACM.ORG/JOURNAL/TOSEM/DISTINGUISHED-REVIEWERS-BOARD](https://dl.acm.org/journal/tosem/distinguished-reviewers-board)**  
**SJR RANKING: Q1**
- 2022 - current**      **ASSOCIATE EDITOR – ELSEVIER’S INFORMATION AND SOFTWARE TECHNOLOGY (IST) – LINK: [HTTPS://WWW.SCIENCEDIRECT.COM/JOURNAL/INFORMATION-AND-SOFTWARE-TECHNOLOGY/ABOUT/EDITORIAL-BOARD](https://www.sciencedirect.com/journal/information-and-software-technology/about/editorial-board)**  
**SJR RANKING: Q1**
- 2022**      **GUEST EDITOR – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE (JSS)**  
Special Issue on “Software Evolution, Engineering, and Reengineering in Practice”  
**SJR RANKING: Q1**
- 2021 - current**      **ASSOCIATE EDITOR – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING (EMSE) – LINK: [HTTPS://LINK.SPRINGER.COM/JOURNAL/10664/EDITORIAL-BOARD](https://link.springer.com/journal/10664/editorial-board)**  
**SJR RANKING: Q1**
- 2021**      **GUEST EDITOR – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING (EMSE)**  
Special Issue on “Program Comprehension” – LINK: <https://emsejournal.github.io/special-issues/2021-Program-Comprehension.html>  
**SJR RANKING: Q1**
- 2021 - current**      **ASSOCIATE EDITOR – E-INFORMATICA SOFTWARE ENGINEERING JOURNAL (E-INFORMATICA) – LINK: [HTTPS://WWW.E-INFORMATYKA.PL/INDEX.PHP/EINFORMATICA/EDITORIAL-BOARD/](https://www.e-informatyka.pl/index.php/einformatica/editorial-board/)**  
**SJR RANKING: Q3**

- 2020 - 2023**      **REVIEW BOARD MEMBER – IEEE TRANSACTIONS ON SOFTWARE ENGINEERING (TSE)**  
SJR RANKING: Q1
- 2020 - 2023**      **ASSOCIATE EDITOR – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE (JSS)**  
SJR RANKING: Q1
- 2019 - current**      **EDITORIAL ASSISTANT – ELSEVIER’S SCIENCE OF COMPUTER PROGRAMMING (SCICO) – LINK:**  
[HTTPS://WWW.SCIENCEDIRECT.COM/JOURNAL/SCIENCE-OF-COMPUTER-PROGRAMMING/ABOUT/EDITORIAL-BOARD](https://www.sciencedirect.com/journal/science-of-computer-programming/about/editorial-board)  
SJR RANKING: Q3
- 2019 - 2022**      **SOCIAL MEDIA DIRECTOR – ACM TRANSACTIONS ON SOFTWARE ENGINEERING AND METHODOLOGY (TOSEM)**  
SJR RANKING: Q1
- 2019 - 2020**      **EDITORIAL BOARD MEMBER – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE (JSS)**  
SJR RANKING: Q1
- 2019**          **GUEST EDITOR – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE (JSS)**  
Special Issue on “Machine Learning Techniques for Software Quality Evaluation”  
SJR RANKING: Q1
- 2018**          **GUEST EDITOR – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING (EMSE)**  
Special Issue on “Mobile Software Engineering”  
SJR RANKING: Q1
- 2018**          **GUEST EDITOR – WILEY’S JOURNAL OF SOFTWARE MAINTENANCE AND EVOLUTION (JSEP)**  
Special Issue on “Machine Learning Techniques for Software Quality Evaluation”  
SJR RANKING: Q2
- 2017 - current**      **REVIEW BOARD MEMBER – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING (EMSE)**  
SJR RANKING: Q1
- 2016 - current**      **REFeree ACTIVITIES**  
*Referee for:*
- TSE: IEEE Transactions on Software Engineering (100+ reviews);
  - TOSEM: ACM Transactions on Software Engineering and Methodology (30+ reviews);
  - EMSE: Springer’s Empirical Software Engineering (100+ reviews);
  - IST: Elsevier’s Information and Software Technology (20+ reviews);
  - JSS: Elsevier’s Journal of Systems and Software (70+ reviews);
  - SCICO: Elsevier’s Science of Computer Programming Journal (30+ reviews).

## 8.5 INVITED SPEAKER

- 2025**          F. Palomba.  
Mind the Bias: Fairness by Design in AI-Powered Software Engineering Assistants  
1st Workshop on Evaluation of Qualitative Aspects of Intelligent Software Assistants, Istanbul, Turkey, June 17<sup>th</sup>.
- 2024**          F. Palomba.  
Technical Debt in the AI Era: A TechDebt’s Offer AI Can’t Refuse  
7<sup>th</sup> ACM/IEEE International Conference on Technical Debt (TechDebt 2024), Lisbon, Portugal, April 15<sup>th</sup>.
- 2024**          F. Palomba.  
Toward Next-Generation Automated Test Code Quality Analysis  
9th Brazilian Symposium on Systematic and Automated Software Testing (SAST 2024), Curitiba, Paraná, Brazil, September 30<sup>th</sup>.
- 2022**          F. Palomba.

Mining Software Repositories for Vulnerability Prediction: Challenges, Lessons Learned, and Recommendations  
International Summer School on Security Testing and Verification, Leuven, Belgium, September 22<sup>nd</sup>.

- 2022** F. Palomba.  
Technical Debt: The Road Ahead  
Polish Conference on Software Engineering, September 15<sup>th</sup>.
- 2020** F. Palomba.  
Artificial Intelligence, This Unknown.  
Virtual Annual Conference on Geospatial Big Data, December 21<sup>th</sup>.
- 2020** F. Palomba.  
Mutation Testing Meets Software Analytics: A Hands-On Tutorial.  
15<sup>th</sup> International Conference on Mining Software Repositories (MSR 2020) – Education Track, June 30<sup>th</sup>.
- 2019** F. Palomba.  
Test Code Quality: A New Dimension of Test Code Effectiveness.  
10<sup>th</sup> International Workshop on Empirical Software Engineering in Practice (IWESEP), Tokyo University of Technology, December 13<sup>th</sup>.
- 2019** F. Palomba.  
Software Design 101: Improving the Design of Existing Code, Tests, and Communities.  
14<sup>th</sup> International Summer School on Software Engineering, University of Salerno, June 17<sup>th</sup>.
- 2019** F. Palomba.  
Software Design 101: Improving the Design of Existing Code, Tests, and Communities.  
2<sup>nd</sup> International Summer School on Software Engineering, Tampere University of Technology, June 6<sup>th</sup>.
- 2018** F. Palomba.  
Managing Source Code Quality in Mobile Applications.  
4<sup>th</sup> International Summer School on Software Engineering, Free-University of Bolzano, July 10<sup>th</sup>.
- 2018** F. Palomba.  
Exploiting Machine Learning Techniques for the Automatic Identification of Code Smells  
1<sup>st</sup> International Summer School on Machine Learning, Eindhoven University of Technology, July 20<sup>th</sup>
- 2018** F. Palomba.  
Machine Learning for Mobile Applications.  
IFI Summer School on Machine Learning, University of Zurich, June 28<sup>th</sup>.
- 2017** F. Palomba.  
Does Refactoring of Test Smells Induce Fixing Flaky Tests?  
CREST Open Workshop organized by the University College of London, November 27<sup>th</sup>.
- 2017** F. Palomba.  
Not Only Maintainability: Revisiting Test Smells as a Measure of Test Code Effectiveness.  
IPA Fall Days on System and Software Analysis organized by the CWI institute, Nunspeet (The Netherlands), November 8<sup>th</sup>
- 2016** F. Palomba.  
Mining Version Histories for Detecting Code Smells.  
CREST Open Workshop organized by the University College of London, November 29<sup>th</sup>.
- 2015** F. Palomba.  
Using Alternative Sources of Information for Smell Detection.  
Delft University of Technology, October 23<sup>rd</sup>.

**2014** F. Palomba  
Software Metrics and Antipatterns: Challenges and Solution  
University of Molise, November, 12<sup>nd</sup>.

## 8.6 GUEST LECTURER

**2025** F. Palomba.  
Software Engineering with and for Artificial Intelligence  
Advanced Ph.D. Course at the Gran Sasso Science Institute, July 1-4

**2024** F. Palomba.  
Software Engineering with and for Artificial Intelligence  
Advanced Ph.D. Course at the Gran Sasso Science Institute, June 24-27

**2020** F. Palomba.  
On Code and Test Smells  
Software Modeling and Analysis Course at the University of Bern, November 4<sup>th</sup>

**2017** F. Palomba.  
Code Smells: Relevance of the Problem and Novel Detection Techniques  
Software Maintenance and Evolution Course at the University of Zurich, December 8<sup>th</sup>

**2017** F. Palomba.  
Mining User Reviews to Support the Evolution of Mobile Applications.  
Green Lab at the University of Amsterdam, October 19<sup>th</sup>

**2017** F. Palomba.  
Mining User Reviews to Support the Evolution of Mobile Applications.  
Mining Software Repositories Course at the Delft University of Technology, September 26<sup>th</sup>

**2016** F. Palomba.  
The Back-end Side of Compilers.  
Software Engineering Course at the University of Salerno, June 4<sup>th</sup>

**2016** F. Palomba.  
Bug Prediction: An Overview.  
Software Engineering Course at the University of Salerno, May 27<sup>th</sup>

**2016** F. Palomba.  
Code Smell Detection and Refactoring Automation.  
Software Engineering Course at the University of Salerno, May 19<sup>th</sup>

## 8.7 HIRING COMMITTEES

**2024** **HIRING COMMITTEE MEMBER OF A RESEARCH FELLOW AT UNIVERSITY OF SALERNO (ITALY)**  
Designed member of the hiring committee for a position of Research Fellow at the University of Salerno (Italy).

**2024** **HIRING COMMITTEE MEMBER OF A RESEARCH FELLOW AT UNIVERSITY OF SALERNO (ITALY)**  
Designed member of the hiring committee for a position of Research Fellow at the University of Salerno (Italy).

**2023** **HIRING COMMITTEE MEMBER OF A RESEARCH FELLOW AT UNIVERSITY OF SALERNO (ITALY)**  
Designed member of the hiring committee for a position of Research Fellow at the University of Salerno (Italy).

**2023** **HIRING COMMITTEE MEMBER OF A RESEARCH FELLOW AT UNIVERSITY OF SALERNO (ITALY)**

Designed member of the hiring committee for a position of Research Fellow at the University of Salerno (Italy).

**2023 HIRING COMMITTEE MEMBER OF A RESEARCH FELLOW AT UNIVERSITY OF SALERNO (ITALY)**

Designed member of the hiring committee for a position of Research Fellow at the University of Salerno (Italy).

**2019 HIRING COMMITTEE MEMBER OF AN ASSISTANT PROFESSOR ON BIG DATA SCIENCE**

Designed member of the hiring committee for a position of Assistant Professor at the University of Zurich (Switzerland). In this committee, I was designed as the delegate of the Senior Research Associates.

**2019 HIRING COMMITTEE MEMBER OF AN ASSOCIATE PROFESSOR ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

Designed member of the hiring committee for a position of Assistant Professor at the University of Zurich (Switzerland). In this committee, I was designed as the delegate of the Senior Research Associates.

## 8.8 RESEARCH GRANT COMMITTEES

**2023 REVIEWER FOR THE SWISS SPECIAL CALL JAPAN PROGRAM**

Reviewer of research proposals submitted for collaborative research proposals between Japan and Switzerland.

**2023 REVIEWER FOR THE DUTCH RESEARCH COUNCIL (NWO) GRANTS PROGRAM**

Expert Reviewer of research proposals submitted for funding request to the Dutch Research Council.

**2022 MEMBER OF THE SWISS NATIONAL SCIENCE FOUNDATION (SNSF) GRANTS PROGRAM**

Member of the selection committee of research proposals submitted to the Mathematical, Physical, and Engineering Sciences Division of the SNSF Grants Program, which aimed at promoting Swiss researchers.

**2022 MEMBER OF THE NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC) DISCOVERY GRANTS PROGRAM**

Member of the selection committee of research proposals submitted to the Engineering Section of the NSERC Discovery Grants Program, which aimed at promoting the research of young researchers.

**2021 MEMBER OF THE RESEARCH GRANT COMMITTEE OF THE FREE UNIVERSITY OF BOZEN-BOLZANO**

Member of the selection committee of research proposals submitted to the Internal Research Grant Program, which aimed at promoting interdisciplinary research of researchers at the Free University of Bozen-Bolzano.

**2021 MEMBER OF THE NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC) DISCOVERY GRANTS PROGRAM**

Member of the selection committee of research proposals submitted to the Engineering Section of the NSERC Discovery Grants Program, which aimed at promoting the research of young researchers.

**2019 MEMBER OF THE ACADEMY OF FINLAND RESEARCH PROGRAM ON "PROGRAMMABLE WORLD AND ADVANCED SOFTWARE TECHNIQUES"**

Member of the selection committee of research proposals submitted to the "Programmable World and Advanced Software Technologies" research program, which aimed at promoting new research directions of senior researchers located in Finland or that were planning to move to Finland.

**2019 MEMBER OF THE CROATIAN SCIENCE FOUNDATION RESEARCH PROGRAM ON "BUSINESS SOFTWARE PROJECTS: CRITICAL FACTORS, MODELLING, AND PERSPECTIVES"**

Member of the selection committee of research proposals submitted to the "Business Software Projects: Critical Factors, Modelling, and Perspectives" research program, which aimed at promoting new research directions of both young and senior researchers located in Croatia.

## 8.9 PH.D. COMMITTEE JURIES

**2025 MEMBER OF THE PH.D. COMMITTEE OF THE PH.D. IN "COMPUTER SCIENCE" (UNIVERSITY OF BERGEN, NORWAY)**

External Ph.D. Committee Member of the Ph.D. defense of Dr. Ngoc-Thanh Nguyen, entitled: "*Engineering of Software for Automatic Marine Data Quality Control*". Date: October 20<sup>th</sup>, 2025.

- 2025** **MEMBER OF THE PH.D. COMMITTEE OF THE PH.D. IN “COMPUTER SCIENCE” (UNIVERSITY OF PORTO, PORTUGAL)**  
External Ph.D. Committee Member of the Ph.D. defense of Dr. Sara Filipa Couto Fernandes, entitled: *“A Live Environment for Continuous Software Inspection and Refactoring”*. Date: May 5<sup>th</sup>, 2025.
- 2023** **MEMBER OF THE PH.D. COMMITTEE OF THE PH.D. IN “INFORMATION AND COMMUNICATION TECHNOLOGY” (UNIVERSITY OF L’AQUILA, ITALY)**  
External Ph.D. Committee Member of the Ph.D. defenses of Dr. Roberta Capuano, Dr. Gianluca Filippone, and Dr. Claudio Di Sipio. Date: July 26<sup>th</sup>, 2023.
- 2023** **MEMBER OF THE PH.D. COMMITTEE OF DR. MICHEL MAES BERMEJO (UNIVERSIDAD REY JUAN CARLOS, SPAIN)**  
External Ph.D. Committee member of the dissertation thesis developed by Dr. Michel Maes Bermejo, entitled: *“Hunting Bugs: A Study of the Change History of Open-Source Projects and Its Application to the Detection of How These Changes Introduce Bugs”*. Date: June 30<sup>th</sup>, 2023.
- 2023** **MEMBER OF THE PH.D. COMMITTEE OF THE PH.D. IN “TECHNOLOGIES FOR COMPUTER ENGINEERING” (UNIVERSITY OF SANNIO, ITALY)**  
External Ph.D. Committee Member of the Ph.D. defenses of Dr. Anna Vacca and Dr. Martina Iammarino. Date: February 1<sup>st</sup>, 2023.
- 2022** **INVITED HONORARY MEMBER OF THE PH.D. COMMITTEE OF DR. MOHAMED SOFIEN BOUTAIB (UNIVERSITY OF TUNIS, TUNISIA)**  
Honorary member of the dissertation thesis developed by Dr. Mohamed Sofien Boutaib, entitled: *“Search-Based Code Smell Detection in Imbalanced and Uncertain Environments”*. Date: January 12<sup>nd</sup>, 2022.
- 2021 - 2025** **MEMBER OF THE ADVISORY COMMITTEE OF DR. SARA FILIPA COUTO FERNANDES (UNIVERSITY OF PORTO, PORTUGAL)**  
External assessor and Ph.D. advisory committee member of the dissertation thesis developed by Dr. Sara Filipa Couto Fernandes, entitled: *“A Live Environment for Continuous Software Inspection and Refactoring”*.
- 2020** **MEMBER OF THE PH.D. JURY OF DR. JONAS DE BLESER (VRJIE UNIVERSITEIT BRUSSEL, BELGIUM)**  
External assessor and Ph.D. committee member of the dissertation thesis developed by Dr. Jonas De Bleser, entitled: *“An Automated Delta-Debugging Approach to Resilience Testing of Actor Systems through Fault Injection”*. Date: October 2<sup>nd</sup>, 2020.

## 8.10 ACADEMIC SERVICES

- 2025 - current** **COORDINATOR OF THE ERASMUS+ BLENDED INTENSIVE PROGRAM (BIP) ON “DIGITAL HUMANITIES”**  
Coordinator of the Erasmus+ Blended Intensive Program (BIP) on “Digital Humanities,” responsible for designing and managing a transnational training initiative that combines online collaborative activities with a short-term mobility program. The program brought together students and academic staff from the University of Porto (Portugal), Universitat Politècnica de València (Spain), and the University of Salerno (Italy) to explore the intersection of digital technologies and the humanities, fostering interdisciplinary skills, teamwork, and innovation. The role includes coordinating teaching activities, supervising the development of interdisciplinary prototypes, and managing logistical aspects of the program.
- 2025 - current** **NATIONAL COORDINATOR OF THE FOCUS GROUP ON “SOFTWARE” OF THE CINI WORKING GROUP ON SYSTEM AND SERVICE QUALITY**  
National Coordinator of the Focus Group on “Software” of the CINI Working Group, which aims to foster collaboration among academia, industry, and public institutions to advance research, innovation, and technology transfer in the field of software engineering, with a particular focus on emerging challenges such as AI-driven development, cybersecurity, and sustainable software.
- 2023 - current** **MEMBER OF THE PH.D. COMMITTEE OF THE XXXIX CYCLE OF THE PH.D. PROGRAM IN COMPUTER SCIENCE**  
Member of the Ph.D. Committee of the XXXIX Cycle of the Ph.D. Program in Computer Science of the University of Salerno.
- 2023 - current** **MEMBER OF THE PH.D. PROGRAM QUALITY ASSURANCE GROUP**  
Member of the Quality Assurance Group with the responsibility of monitoring the research activities and career progresses of the Ph.D. Students enrolled to the Ph.D. Program in Computer Science of the University of Salerno.

- 2022 - current**    **LOCAL COORDINATOR OF THE CINI WORKING GROUP ON SYSTEM AND SERVICE QUALITY**  
Local Coordinator of the CINI Working Group, which aims to foster discussion and collaboration among the Italian research groups working on methodologies and approaches for maintaining and evolving high-quality IT systems and services.
- 2021 - current**    **MEMBER OF THE STUDY PLAN COMMITTEE**  
Member of the Study Plan Committee with the responsibility of verifying and providing advice on the study plans submitted by Bachelor's and Master's students enrolled to the Computer Science Program of the University of Salerno.

## 9 CONFERENCES AND SCHOOLS PARTICIPATIONS

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- 2025**    **INTERNATIONAL CONFERENCE ON EVALUATION AND ASSESSMENT IN SOFTWARE ENGINEERING (EASE)**  
*Istanbul, Turkey*
- 2025**    **51<sup>ST</sup> EUROMICRO CONFERENCE SERIES ON SOFTWARE ENGINEERING AND ADVANCED APPLICATIONS (SEAA 2025)**  
*Salerno, Italy*
- 2024**    **INTERNATIONAL CONFERENCE ON EVALUATION AND ASSESSMENT IN SOFTWARE ENGINEERING (EASE)**  
*Salerno, Italy*
- 2024**    **46<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2024)**  
*Lisbon, Portugal*
- 2024**    **31<sup>ST</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ANALYSIS, EVOLUTION, AND REENGINEERING (SANER 2024)**  
*Rovaniemi, Finland*
- 2023**    **45<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2023)**  
*Melbourne, Australia*
- 2023**    **49<sup>TH</sup> EUROMICRO CONFERENCE SERIES ON SOFTWARE ENGINEERING AND ADVANCED APPLICATIONS (SEAA 2023)**  
*Durres, Albania*
- 2022**    **48<sup>TH</sup> EUROMICRO CONFERENCE SERIES ON SOFTWARE ENGINEERING AND ADVANCED APPLICATIONS (SEAA 2022)**  
*Gran Canaria, Spain*
- 2021**    **36<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2021)**  
*Virtual*
- 2021**    **43<sup>RD</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2021)**  
*Virtual*
- 2020**    **35<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2020)**  
*Virtual*
- 2020**    **42<sup>ND</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2020)**  
*Virtual*
- 2019**    **41<sup>ST</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2019)**  
*Montreal, Canada*
- 2018**    **34<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2018)**  
*Madrid, Spain*  
Presentation of [C36].

- 2018**     **40<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2018)**  
*Gothenburg, Sweden*  
Presentation of [J7], [J8].
- 2018**     **25<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ANALYSIS, EVOLUTION, AND REENGINEERING (SANER 2018)**  
*Campobasso, Italy*
- 2017**     **33<sup>RD</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2017)**  
*Shanghai, China*  
Presentation of [C23].
- 2017**     **39<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2017)**  
*Buenos Aires, Argentina*  
Presentation of [C16], [C18].
- 2017**     **25<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON PROGRAM COMPREHENSION (ICPC 2017)**  
*Buenos Aires, Argentina*  
Presentation of [C21], [C22].
- 2016**     **49<sup>TH</sup> CREST OPEN WORKSHOP (COW) ON SOFTWARE ARCHITECTURE AND TECHNICAL DEBT**  
*London, United Kingdom*  
Presentation of [J1].
- 2016**     **32<sup>ND</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2016)**  
*Raleigh, USA*  
Presentation of [C13], [C15].
- 2016**     **38<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2016)**  
*Austin, USA*  
Presentation of [C9], [C10].
- 2015**     **1<sup>ST</sup> INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (ISSSE)**  
*Free University of Bozen-Bolzano, Bolzano, Italy*  
Presentation of [C1].
- 2015**     **37<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2015)**  
*Florence, Italy*  
Presentation of [C4], [C5] and [C6].
- 2014**     **30<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2014)**  
*Victoria, British Columbia, Canada*  
Presentation of [C3].
- 2014**     **11<sup>TH</sup> INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (ISSSE)**  
*University of Salerno, Fisciano, Italy*  
Scientific Secretarial of the School
- 2013**     **28<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON AUTOMATED SOFTWARE ENGINEERING (ASE 2013)**  
*Palo Alto, USA*  
Presentation of [C2].

## 10 AWARDS AND RECOGNITION

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My research has been recognized with several prestigious international and national awards for excellence, impact, and scientific rigor. I am included in the **World's Top 2% Scientists ranking compiled by Stanford University in collaboration with Elsevier** (<https://topscinet.com>), which identifies the top two percent of researchers worldwide based on standardized citation indicators. Notably, I am the recipient of the **2023 IEEE/TCSE Rising Star Award**, the most prestigious early-career recognition in software engineering - the second Italian researcher ever to have received it. I also received the **IEEE Computer Society Italy Section Best PhD Thesis Award (2017)**, being the only software engineer to date honoured with this distinction. My publications have earned multiple **ACM/SIGSOFT and IEEE/TCSE Distinguished Paper Awards, and Best Paper Awards** at flagship conferences, attesting to the soundness and quality of my research contributions. In addition, I was awarded a **Bronze Medal at the ACM/SIGSOFT Student Research Competition**, and I have received over **20 Outstanding or Distinguished Reviewer Awards** from top-tier venues, recognizing my consistent and high-quality service to the research community.

### 10.1 RESEARCH CAREER AWARDS

#### 2023 IEEE COMPUTER SOCIETY TECHNICAL COUNCIL ON SOFTWARE ENGINEERING RISING STAR AWARD

Motivation: *"In recognition of his research on code refactoring and code smells. The use of alternative sources of information, such as historical and textual information, besides the structural information previously used in the literature, has led to significant research advancements in the area"*. <https://tc.computer.org/tcse/awards/>.

The IEEE Technical Council on Software Engineering is the leading international body within the IEEE Computer Society that coordinates and promotes research, education, and practice in software engineering worldwide. The TCSE Rising Star Award is its most prestigious early-career recognition, conferred annually to only one researcher globally who has demonstrated outstanding leadership and influential contributions to software engineering.

#### 2017 IEEE COMPUTER SOCIETY BEST PHD THESIS AWARD – ITALY SECTION CHAPTER

For my PhD Thesis named: *"Code Smells: Relevance of the Problem and Novel Detection Techniques"*. <https://site.ieee.org/italy-cs/ieee-computer-society-italy-section-chapter-2017-phd-thesis-award/>

The IEEE Computer Society is the world's largest professional organization dedicated to advancing computing and information technology. Its Italy Section Chapter annually recognizes the best doctoral dissertation in computer science and engineering conducted at Italian universities. This highly competitive national award acknowledges exceptional research quality, innovation, and scientific impact. I am the only software engineer to have ever received this distinction within the Italian Section.

### 10.2 DISTINGUISHED/BEST PAPER AWARDS

#### 2025 MOST INFLUENTIAL 5-YEARS JOURNAL FIRST PAPER ON SOFTWARE TESTING FOR THE PAPER "HOW DEVELOPERS ENGAGE WITH STATIC ANALYSIS TOOLS IN DIFFERENT CONTEXTS"

*18th IEEE International Conference on Software Testing, Verification and Validation (ICST 2025), Naples, Italy.*

ICORE CONFERENCE RANKING: A

#### 2025 BEST PAPER AWARD FOR THE PAPER "INVESTIGATING THE PERFORMANCE OF SMALL LANGUAGE MODELS IN DETECTING TEST SMELLS IN MANUAL TEST CASES"

*39th Brazilian Symposium on Software Engineering (SBES 2025), Recife, Brazil.*

ICORE CONFERENCE RANKING: N/A

#### 2025 BEST PAPER AWARD FOR THE PAPER "CONTEXTUAL FAIRNESS-AWARE PRACTICES IN ML: A COST-EFFECTIVE EMPIRICAL EVALUATION"

*1st International Workshop on Fairness in Software Systems (Fairness 2025), Montreal, Canada.*

ICORE CONFERENCE RANKING: N/A

#### 2023 BEST PAPER AWARD FOR THE PAPER "THE YIN AND YANG OF SOFTWARE QUALITY: ON THE RELATIONSHIP BETWEEN DESIGN PATTERNS AND CODE SMELLS"

*49th Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA), Durres, Albania.*

**ICORE CONFERENCE RANKING: B**

- 2022**     **BEST PAPER AWARD FOR THE PAPER ““THERE AND BACK AGAIN?”: ON THE INFLUENCE OF SOFTWARE COMMUNITY DISPERSION OVER PRODUCTIVITY”**  
*48<sup>th</sup> Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA), Gran Canaria, Spain.*  
**ICORE CONFERENCE RANKING: B**
- 2022**     **IEEE/TCSE DISTINGUISHED PAPER AWARD FOR THE PAPER “TOWARD UNDERSTANDING THE IMPACT OF REFACTORING ON PROGRAM COMPREHENSION”**  
*29<sup>th</sup> IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), Honolulu, Hawaii, USA.*  
**ICORE CONFERENCE RANKING: A**
- 2018**     **PAPER HONOURABLE MENTION FOR THE PAPER “INFORMATION NEEDS IN CONTEMPORARY CODE REVIEW”**  
*21<sup>th</sup> ACM International Conference on Computer Supported Cooperative Work (CSCW), New York, USA.*  
**ICORE CONFERENCE RANKING: A**
- 2018**     **BEST TOOL DEMO AWARD FOR THE PAPER “BECLOMA: AUGMENTING STACK TRACES WITH USER REVIEW INFORMATION”**  
*33<sup>rd</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME), Shanghai, China.*  
**ICORE CONFERENCE RANKING: A**
- 2015**     **ACM/SIGSOFT DISTINGUISHED PAPER AWARD FOR THE PAPER “WHEN AND WHY YOUR CODE STARTS TO SMELL BAD”**  
*37<sup>th</sup> ACM/IEEE International Conference of Software Engineering (ICSE), Firenze, Italy.*  
**ICORE CONFERENCE RANKING: A\***
- 2015**     **BRONZE MEDAL AT THE STUDENT RESEARCH COMPETITION FOR THE PAPER “TEXTUAL ANALYSIS FOR CODE SMELL DETECTION”**  
*37<sup>th</sup> ACM/IEEE International Conference of Software Engineering (ICSE), Firenze, Italy.*  
**ICORE CONFERENCE RANKING: A\***
- 2013**     **ACM/SIGSOFT DISTINGUISHED PAPER AWARD FOR THE PAPER “DETECTING BAD SMELLS IN SOURCE CODE USING CHANGE HISTORY INFORMATION”**  
*28<sup>th</sup> ACM/IEEE International Conference on Automated Software Engineering (ASE), Palo Alto, USA.*  
**ICORE CONFERENCE RANKING: A\***

### 10.3 DISTINGUISHED/OUTSTANDING REVIEWER AWARDS

- 2025**     **DISTINGUISHED REVIEWER AWARD**  
*41<sup>st</sup> International Conference on Software Maintenance and Evolution (ICSME 2025), Auckland, New Zealand.*  
**ICORE CONFERENCE RANKING: A**
- 2025**     **DISTINGUISHED REVIEWER AWARD**  
*25<sup>th</sup> IEEE International Conference on Source Code Analysis and Manipulation (SCAM 2025), Auckland, New Zealand.*  
**ICORE CONFERENCE RANKING: C**
- 2025**     **DISTINGUISHED REVIEWER AWARD**  
*35<sup>th</sup> International Conference on the Foundations of Software Engineering (FSE 2025), Trondheim, Norway.*  
**ICORE CONFERENCE RANKING: A\***
- 2025**     **DISTINGUISHED REVIEWER AWARD**  
*22<sup>nd</sup> International Conference on Mining Software Repositories (MSR 2025), Ottawa, Canada.*  
**ICORE CONFERENCE RANKING: A**
- 2025**     **DISTINGUISHED REVIEWER AWARD**  
*2<sup>nd</sup> ACM International Conference on AI Foundation Models and Software Engineering (FORGE 2025), Ottawa, Canada.*  
**ICORE CONFERENCE RANKING: N/A**

- 2024**      **DISTINGUISHED REVIEWER AWARD**  
*40<sup>th</sup> ACM International Conference on Software Maintenance and Evolution, Flagstaff, Arizona, USA.*  
**ICORE CONFERENCE RANKING: A**
- 2024**      **DISTINGUISHED REVIEWER AWARD**  
*1<sup>st</sup> ACM International Conference on AI-Powered Software (Alware), Porto de Galinhas, Brazil.*  
**ICORE CONFERENCE RANKING: N/A**
- 2023**      **DISTINGUISHED REVIEWER AWARD**  
*IEEE Transactions on Software Engineering (TSE).*  
**SJR RANKING: Q1**
- 2021**      **DISTINGUISHED PROGRAM COMMITTEE MEMBER AWARD**  
*36<sup>th</sup> IEEE/ACM International Conference on Automated Software Engineering (ASE).*  
**ICORE CONFERENCE RANKING: A\***
- 2021**      **DISTINGUISHED REVIEWER AWARD**  
*21<sup>st</sup> IEEE International Conference on Source Code Analysis and Manipulation (SCAM).*  
**ICORE CONFERENCE RANKING: C**
- 2020**      **OUTSTANDING REVIEWER AWARD**  
*Elsevier's Information and Software Technology Journal (IST).*  
**SJR RANKING: Q1**
- 2020**      **OUTSTANDING REVIEWER AWARD**  
*e-Informatica Software Engineering Journal (EISEJ).*  
**SJR RANKING: N/A**
- 2020**      **OUTSTANDING REVIEWER AWARD**  
*Elsevier's Journal of Systems and Software (JSS).*  
**SJR RANKING: Q1**
- 2019**      **DISTINGUISHED REVIEWER AWARD**  
*27<sup>th</sup> IEEE/ACM International Conference on Program Comprehension (ICPC).*  
**ICORE CONFERENCE RANKING: A**
- 2019**      **OUTSTANDING REVIEWER AWARD**  
*Elsevier's Journal of Systems and Software (JSS).*  
**SJR RANKING: Q1**
- 2018**      **DISTINGUISHED REVIEWER AWARD**  
*Springer's Journal of Empirical Software Engineering (EMSE).*  
**SJR RANKING: Q1**
- 2018**      **OUTSTANDING REVIEWER AWARD**  
*Elsevier's Journal of Systems and Software (JSS).*  
**SJR RANKING: Q1**
- 2018**      **OUTSTANDING REVIEWER AWARD**  
*Elsevier's Information and Software Technology Journal (IST).*  
**SJR RANKING: Q1**
- 2017**      **DISTINGUISHED REVIEWER AWARD**  
*Springer's Journal of Empirical Software Engineering (EMSE).*  
**SJR RANKING: Q1**

**2016**      **OUTSTANDING REVIEWER AWARD**  
Elsevier's Information and Software Technology Journal (IST).  
**SJR RANKING: Q1**

## 11 GRANTS

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- 2024**      **FAIR (FUTURE ARTIFICIAL INTELLIGENCE) PROJECT – AMOUNT: 150.000 EUR**  
The grant has the awarded under the national call of the project “Future Artificial Intelligence (FAIR)’ – Spoke 3 ‘Resilient AI’”, financed within the Piano Nazionale di Ripresa e Resilienza (PNRR), Mission 4 “Istruzione e Ricerca” - Component 2”. The project, titled “*Artificial Intelligence-Augmented Code Quality and Security Optimization in Machine Learning-Driven Software*”, aims at developing innovative AI-based techniques to enhance code quality and security in ML-intensive systems.
- 2023**      **PRIN (PROGETTO DI RILEVANTE INTERESSE NAZIONALE) PROJECT– AMOUNT: 239.660 EUR**  
The grant has the awarded by the Ministry of University (MUR) and represents one of the most prestigious research grants for researchers in Italy. The project aims at devising novel methods and techniques for engineering fairness and ethics in the context of Artificial Intelligence-based software systems. The role played in this project is the one of *National Coordinator* of the project. The project is in collaboration with the University of L’Aquila (Prof. Davide Di Ruscio) and the University of Sannio (Dr. Andrea Di Sorbo).
- 2023**      **PRIN (PROGETTO DI RILEVANTE INTERESSE NAZIONALE) PROJECT– AMOUNT: 249.609 EUR**  
The grant has the awarded by the Ministry of University (MUR) and represents one of the most prestigious research grants for researchers in Italy. The project aims at devising novel methods and techniques for the quality and evolution of Artificial Intelligence-based software systems. The role played in this project is the one of *Local Scientific Coordinator* of the research unit of the University of Salerno. The project is in collaboration with the University of Bari (Prof. Nicole Novielli) and the University of Molise (Prof. Rocco Oliveto). Prof. Nicole Novielli from the University of Bari is the National Coordinator of the project.
- 2019**      **SNSF AMBIZIONE– AMOUNT: 894.430 CHF**  
The grant has the awarded by the Swiss National Science Foundation and represents one of the most prestigious individual research grants for young researchers in Europe. The project aims at devising novel instruments and techniques to improve automatic software testing.
- 2019**      **HASLER RESEARCH GRANT – AMOUNT: 50.000 CHF**  
The grant has the main goal to study the feasibility of new test code quality metrics based on a combination of factors deemed important by developers.
- 2018**      **FORSCHUNGSCREDIT POSTDOC GRANT – AMOUNT: 60.000 CHF**  
The grant has the main goal to study how test code quality can be exploited to improve test code effectiveness, with the aim of producing novel techniques and tools to help developers in designing effective test cases.
- 2017**      **4TU.NIRICT.2017 – AMOUNT: 70.000 €**  
The grant has the main goal to reinforce the collaboration among the four technical Universities in Netherlands. The proposal is related to the relationship between social and technical aspects of source code, and mainly concerned with the understanding of the impact of social debt on the introduction of code smells and fault.

## 12 LIST OF PAPERS

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I have authored over **200 publications** indexed in SCOPUS and DBLP, including **76 papers in Q1 journals** and **61 papers in A/A\*-ranked conferences**. My journal portfolio comprises **12 papers in IEEE Transactions on Software Engineering (TSE)**, **3 papers in ACM Transactions on Software Engineering and Methodology (TOSEM)**, and **20 papers in Empirical Software Engineering (EMSE)**, among other Q1 venues such as Information and Software Technology (IST) and Journal of Systems and Software (JSS). My conference record includes **16 papers at the IEEE/ACM International Conference on Software Engineering (ICSE)**, **2 at ACM**

**Foundations of Software Engineering (FSE), 4 at IEEE/ACM Automated Software Engineering (ASE), 10 at IEEE International Conference on Software Maintenance and Evolution (ICSME), 9 at IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), 4 at IEEE/ACM International Conference on Mining Software Repositories (MSR), and 10 at IEEE/ACM International Conference on Program Comprehension (ICPC),** across their various tracks. All of which are recognized as A or A\* venues.

The author order reflects the contribution of each co-author. In publications where I am listed as **last author**, I served as the **senior researcher and supervisor**, guiding the conceptual and methodological development of the work.

For the sake of readability, the following section reports **my publications in Q1 journals and A/A\*-ranked conferences** (all tracks). The complete publication list is available at: <https://dblp.org/pid/116/6732.html>.

## 12.1 INTERNATIONAL JOURNALS

- [J76] A. Cannavale, G. Voria, A. Scognamiglio, G. Giordano, G. Catolino, **F. Palomba**.  
Fairness Set and Forgotten: Mining Fairness Toolkit Usage in Open-Source Machine Learning Projects.  
Elsevier's Information and Software Technology (IST), to appear, 2025.
- [J75] T. Hinrichs, E. Iannone, T. Aladics, P. Hegedus, A. De Lucia, **F. Palomba**, R. Scandariato.  
Back to the Roots: Assessing Mining Techniques for Java Vulnerability-Contributing Commits.  
ACM Transactions on Software Engineering and Methodology (TOSEM), to appear, 2025.
- [J74] D. Di Dario, **F. Palomba**, C. Gravino.  
Another Brick in the Wall: A Systematic Mapping Study Toward Defining Metaverse Engineering Through Socio-Technical Issues.  
ACM Computing Surveys (CSUR), Vol. 37, 2025.
- [J73] A. Parziale, G. Voria, G. Giordano, G. Catolino, G. Robles, **F. Palomba**.  
Fairness on a Budget, Across the Board: A Cost-Effective Evaluation of Fairness-Aware Practices Across Contexts, Tasks, and Sensitive Attributes.  
Elsevier's Information and Software Technology (IST), Vol. 188, 107858, 2025.
- [J72] G. Voria, F. Casillo, C. Gravino, G. Catolino, **F. Palomba**.  
RECOVER: Toward Requirements Generation from Stakeholders' Conversations.  
IEEE Transactions on Software Engineering (TSE), Vol. 51, Issue 6, pp. 1912-1933, 2025.
- [J71] G. Recupito, G. Giordano, F. Ferrucci, D. Di Nucci, **F. Palomba**.  
When Code Smells Meet ML: On the Lifecycle of ML-specific Code Smells in ML-enabled Systems.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 30, n. 139, 2025.
- [J70] V. De Martino, G. Recupito, G. Giordano, F. Ferrucci, D. Di Nucci, **F. Palomba**.  
Into the ML-Universe: An Improved Classification and Characterization of Machine-Learning Projects.  
Elsevier's Journal of Systems and Software (JSS), Vol. 230, n. 112471, 2025.
- [J69] P. Khokhar, C. Gravino, **F. Palomba**.  
Advances in Artificial Intelligence for Diabetes Prediction: Insights from a Systematic Literature Review.  
Elsevier's Artificial Intelligence in Medicine (AIIM), Vol. 164, 103132, 2025.
- [J68] V. De Martino, G. Voria, C. Troiano, G. Catolino, **F. Palomba**.  
Examining the Impact of Bias Mitigation Algorithms on the Sustainability of ML-enabled Systems: A Benchmark Study.  
Elsevier's Journal of Systems and Software (JSS), Vol. 230, 112458, 2025.
- [J67] G. De Vito, **F. Palomba**, F. Ferrucci.  
The Role of Large Language Models in Addressing IoT Challenges: A Systematic Literature Review.  
Future Generation Computer Systems (FGCS), Vol. 171, 107829, 2025.

- [J66] G. De Vito, S. Di Martino, F. Ferrucci, C. Gravino, **F. Palomba**.  
LLM-Based Automation of Cosmic Functional Size Measurement From Use Cases.  
IEEE Transactions on Software Engineering (TSE), Vol. 51, Issue 5, pp. 1500-1523, 2025.
- [J65] S. Lambiase, G. Catolino, **F. Palomba**, F. Ferrucci, D. Russo.  
Investigating the role of cultural values in adopting large language models for software engineering.  
ACM Transactions on Software Engineering and Methodology (TOSEM), to appear, 2025.
- [J64] G. Voria, G. Sellitto, C. Ferrara, F. Abate, A. De Lucia, F. Ferrucci, G. Catolino, **F. Palomba**.  
Fairness-aware practices from developers' perspective: A survey.  
Elsevier's Information and Software Technology (IST), Vol. 182, 107710, 2025.
- [J63] V. Pontillo, L. Martins, I. Machado, **F. Palomba**, F. Ferrucci.  
An empirical investigation into the capabilities of anomaly detection approaches for test smell detection.  
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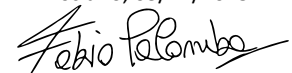
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Fisciano, 03/11/2025

A handwritten signature in black ink, appearing to read "Fabio Palomba". The signature is written in a cursive, flowing style with a long horizontal stroke at the end.