Emanuele **Iannone**

Personal

Birth:
1st September 1996
Salerno (Italy)

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Languages

Italian (Native)
English (B2)

Programming

Java ♥
C, Python
HTML, CSS
Javascript, JQuery
Angular, Ionic
Cordova, Capacitor
MySQL, Neo4J
Servlet, JSP
Spring Boot
Android
LaTeX

Education

2018–2020	**M.Sc. Degree** in Computer Science Software Engineering curriculum Advisors: Fabio Palomba, Andrea De Lucia	University of Salerno
2015–2018	**B.Sc. Degree** in Computer Science Advisor: Andrea De Lucia 110/110 magna cum laude	University of Salerno

Projects

Sep 2019–	**SIEGE** Automatic Exploit Generation for Java applications that rely on vulnerable OSS libraries/frameworks. M.Sc. Degree thesis subject.	University of Salerno
Apr 2018–	**aDoctor** Android-specific Energy Smell Detector and Automatic Refactorer B.Sc. Degree thesis subject.	University of Salerno
Feb 2020	**Smart Cart** Angular+Ionic App for grocery with articles recommendations. Participant of Salerno App Challenge 2020.	University of Salerno
Jan 2020	**Amigo** Spring Boot website. Software Project Management and Software Engineering joint project.	University of Salerno

Publications

[TR2] **Toward Automatic Exploit Generation of Known API Vulnerabilities** — ICSE 2021
E. Iannone, D. Di Nucci, A. Sabetta, A. De Lucia, F. Palomba. Toward Automatic Exploit Generation of Known API Vulnerabilities.
To be submitted at International Conference on Software Engineering (ICSE 2021), Madrid, Spain, 2021 (NIER track)

[TR1] **The Secret Life of Software Vulnerabilities: An Empirical Study** — JSS
E. Iannone, R. Guadagni, F. Ferrucci, F. Palomba. The Secret Life of Software Vulnerabilities: An Empirical Study.
To be submitted at Elsevier's Journal of Systems and Software

[C1] **Refactoring Android-specific Energy Smells: A Plugin for Android Studio** — ICPC 2020
E. Iannone, F. Pecorelli, D. Di Nucci, F. Palomba, A. De Lucia. Refactoring Android-specific Energy Smells: A Plugin for Android Studio.
In Proceedings of the 28th IEEE/ACM International Conference on Program Comprehension (ICPC 2020), Seoul, South Korea, 2020.

Talks and Participations

July 2020	**Presenter @ ICPC 2020**	Online
	Presenter of [C1] Refactoring Android-specific Energy Smells: A Plugin for Android Studio @ Quality session	
June 2019	**Attendee @ 14th ISSSE**	University of Salerno
	Attendee at 14th International Summer School on Software Engineering	

Teaching assistance

Spr. 2020	**Web Software Technologies**	University of Salerno
	Teaching assistant for B.Sc. students. Prof. R. Francese	
Fall 2019	**Software Engineering**	University of Salerno
	Teaching assistant for B.Sc. students. Prof. F. Ferrucci	
Fall 2018	**Software Engineering**	University of Salerno
	Teaching assistant for B.Sc. students. Prof. F. Ferrucci	
Fall 2018	**Software Engineering**	University of Salerno
	Teaching assistant for B.Sc. students. Prof. A. De Lucia	
Fall 2018	**Software Engineering**	University of Salerno
	Teaching assistant for B.Sc. students. Prof. C. Gravino	

Research Interests

Software Engineering
Both my theses subjects are in the Software Engineering field.

Software Testing
M.Sc. thesis subject (variant of automatic test case generation).

Search-Based Software Engineering
M.Sc. thesis subject (design and implementation of a genetic algorithms).

Software Vulnerabilities
M.Sc. thesis subject (automatic exploit generation of known OSS vulnerabilities).

Software Quality
B.Sc. thesis subject (code smells detection and automatic refactoring).

Software Maintenance and Evolution
Interested in developing maintainance tools and techniques for developers.

M.Sc. Degree - Exams

Jun 2020	**Software Dependability** 30/30L	9 ECTS
Jun 2020	**Secure Programming** 30/30L	6 ECTS
Jun 2020	**Software Metrics and Quality** 30/30L	6 ECTS
Feb 2020	**Enterprise Mobile Application Development** 30/30L	6 ECTS
Jan 2020	**Software Project Management** 30/30L	9 ECTS
Sep 2019	**Data Science and Machine Learning** 28/30	9 ECTS
Jul 2019	**Quantum Computation** 30/30L	6 ECTS
Jul 2019	**Concurrent, Parallel and Cloud Programming** 28/30	9 ECTS
Jun 2019	**Databases II** 30/30	9 ECTS
Feb 2019	**Software Engineering, Management and Evolution** 30/30L	9 ECTS
Jan 2019	**Compilers** 30/30L	6 ECTS
Jan 2019	**Internet of Things** 30/30	9 ECTS
	Weighted Average 29.613/30	