

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
L^AT_EX

Education

2018–2020 **M.Sc. Degree** in Computer Science University of Salerno
Software Engineering curriculum
Advisors: Fabio Palomba, Andrea De Lucia

2015–2018 **B.Sc. Degree** in Computer Science University of Salerno
Advisor: Andrea De Lucia
110/110 magna cum laude

Projects

Sep 2019– **SIEGE** University of Salerno
Automatic Exploit Generation for Java applications that rely on vulnerable OSS libraries/frameworks.
M.Sc. Degree thesis subject.

Apr 2018– **aDoctor** University of Salerno
Android-specific Energy Smell Detector and Automatic Refactorer
B.Sc. Degree thesis subject.

Feb 2020 **Smart Cart** University of Salerno
Angular+Ionic App for grocery with articles recommendations.
Participant of Salerno App Challenge 2020.

Jan 2020 **Amigo** University of Salerno
Spring Boot website.
Software Project Management and Software Engineering joint project.

Publications

[C2] **Toward Automatic Exploit Generation of Known API Vulnerabilities** To be submitted
E. Iannone, D. Di Nucci, A. Sabetta, A. De Lucia, F. Palomba. Toward Automatic Exploit Generation of Known API Vulnerabilities.

[J1] **The Secret Life of Software Vulnerabilities: An Empirical Study** To be submitted
E. Iannone, R. Guadagni, F. Ferrucci, F. Palomba. The Secret Life of Software Vulnerabilities: An Empirical Study.

[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.

Teaching assistance

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

Talks and Participations

July 2020	Presenter @ ICPC 2020 Presenter of [T1] Refactoring Android-specific Energy Smells: A Plugin for Android Studio at Quality session	Online
June 2019	Attendee @ 14th ISSSE Attendee at 14th International Summer School on Software Engineering	University of Salerno

M.Sc. Degree - Exams

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

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 maintenance tools and techniques for developers.