Emanuele **Iannone**

Personal

Birth:
1st September 1996
Salerno (Italy)

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Contacts

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Languages

Italian (Native)
English (B2)

Programming

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

Education

2020–	**Ph.D.** in Computer Science	University of Salerno
	Internet of Things and Smart Technologies curriculum	
	Working on Software Vulnerabilities and Automatic Exploit Generation	
	Advisors: Fabio Palomba, Andrea De Lucia	
2018–2020	**M.Sc. Degree** in Computer Science	University of Salerno
	110/110 Cum Laude - Software Engineering curriculum	
	Catch Me if You Can: Toward Automatic Exploit Generation of Known API Vulnerabilities	
	Advisors: Fabio Palomba, Andrea De Lucia	
2015–2018	**B.Sc. Degree** in Computer Science	University of Salerno
	110/110 Magna Cum Laude	
	Automated Refactoring of Energy-Related Code Smells of Android Applications: a Plugin for Android Studio	
	Advisor: Andrea De Lucia	

Publications

[TR2]	**Toward Automatic Exploit Generation of Known API Vulnerabilities**	
	E. Iannone, D. Di Nucci, A. Sabetta, A. De Lucia, F. Palomba.	
	To be submitted	
[TR1]	**The Secret Life of Software Vulnerabilities: A Large Scale Empirical Study**	
	E. Iannone, R. Guadagni, F. Ferrucci, F. Palomba.	
	To be submitted	
[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.	
	In Proceedings of the 28th IEEE/ACM International Conference on Program Comprehension (ICPC 2020), Seoul, South Korea, 2020.	

Talks, Attendances and Lectures

Nov 2020	**Lecturer @ Fundamentals of Artificial Intelligence**	University of Salerno
	Lecture on Genetic Algorithms	
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	

Projects

Sep 2019– **SIEGE**   University of Salerno
Automatic Exploit Generation for Java Applications Relying on Known API
Vulnerabilities.
M.Sc. Degree thesis subject

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

Teaching assistance

Fall 2020   **Software Engineering**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. A. De Lucia

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. A. De Lucia

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   **Object-Oriented Programming**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. C. Gravino

Research Interests

Software Vulnerabilities
My Ph.D. research project is on API vulnerabilities.

Software Testing and Debugging
The automatic exploit generation of M.Sc. thesis was a variant of automatic
test case generation.

Search-Based Software Engineering
M.Sc. thesis proposed a novel genetic algorithm.

Software Quality
B.Sc. thesis was about code smells detection and automatic refactoring.