

# Giorgio Severi

## Contacts

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## Address

5 Park Vale  
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## Research

Systems Security and Machine Learning.

## Interests

## Education

**Ph.D.**, Northeastern University, Boston, MA 2018 - Present

Major: Computer Science

Advisor: Dr. Alina Oprea

**Master of Science**, Sapienza University of Rome, Rome, Italy 2015 - 2018

Major: Computer Science and Engineering

Final grade: 110/110 cum Laude

Thesis: Malwords, Malware classification and clustering based on textual memory content

**Bachelor of Science**, Sapienza University of Rome, Rome, Italy 2011 - 2014

Major: Computer Science and Engineering

Final grade: 107/110

Thesis: FreebleApp, Development of a smart, location based, mobile advertisement platform on Android OS

## Experience

**Research Assistant**, Northeastern University, Boston, MA Fall 2018 - Present

- Network and Distributed Systems Security Lab (NDS2), College of Computer and Information Science
- Conducting research on the application of machine learning to automated fuzz testing systems

**Junior Research Scientist**, New York University, New York, NY 07/2017 - 10/2017

- Center for Cybersecurity CCS, Tandon School of Engineering
- Conducted research on malware analysis and classification
- Employed text mining and machine learning techniques to classify and cluster malicious software samples

**Student Internship**, European Space Agency ESA, Italy 03/2016 - 06/2016

- ESRIN, Earth Observation Directorate
- Evaluated usability of satellite image resources for Hackathon participants
- Developed a mobile application in Java to test a newly deployed web service

**Internal work placement**, Sapienza University, Rome, Italy 2014 - 2015

- Department of Computer, Control, and Management Engineering Antonio Ruberti

## Publications

Severi, Giorgio, Tim Leek, and Brendan Dolan-Gavitt. "Malrec: Compact Full-Trace Malware Recording for Retrospective Deep Analysis." In International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, pp. 3-23. Springer, Cham, 2018.

<b>Additional Experience</b>	Staff member at Codemotion Rome, 2017 and 2015 Mentor at Tech My Cosplay, Arduino Hackathon Rome, 2017 Staff member at Data Driven Innovation Rome 2017 Staff member at Maker Faire Rome 2014	
<b>Additional Courses</b>	Cryptography by University of Maryland, College Park on Coursera. Certificate earned on November 23, 2015, Distinction <sup>1</sup> Software Security by University of Maryland, College Park on Coursera. Certificate earned on April 20, 2015, Distinction <sup>2</sup> Usable Security by University of Maryland, College Park on Coursera. Certificate earned on March 16, 2015 <sup>3</sup>	
<b>Languages</b>	Italian, native speaker. English, European level CEFR C2. <ul style="list-style-type: none"> <li>• International English Language Testing System, IELTS - score: 8.5/9.</li> <li>• University of Cambridge ESOL Certificate of Proficiency in English, CPE.</li> </ul>	
<b>Programming</b>	Java, Python, C / C++, Android application development	
<b>Awards</b>	Accenture Digital Hackathon Rome Winner <sup>4</sup>	2016
	NASA International SpaceApps Challenge Project CROPP, Global winner for category Galactic Impact and Rome competition local winner <sup>5</sup>	2015
<b>Activities</b>	Taekwondo Black Belt	

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<sup>1</sup><https://www.coursera.org/account/accomplishments/certificate/9SJMSGUGF>

<sup>2</sup><https://www.coursera.org/account/accomplishments/certificate/QWBBMF368H>

<sup>3</sup><https://www.coursera.org/account/accomplishments/certificate/MUQZPZ9T68>

<sup>4</sup><https://www.accenture.com/it-it/Careers/accenture-digital-hackathon-2016>

<sup>5</sup><https://2015.spaceappschallenge.org/award/>