

Giorgio Severi

Contacts

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Research Interests Systems Security and Machine Learning.

Education **Ph.D.**, Northeastern University, Boston, MA Fall 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 **Graduate Fellowship**, 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.

Additional Experience	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
Selected Courses	<i>Northeastern University:</i> CS 7610 Distributed Systems, CS 7180 Special Topics in AI Reinforcement Learning. <i>Sapienza University:</i> Advanced Operating Systems, Distributed Systems and Computer and Network Security, Systems and Enterprise Security, Web Security and Privacy, Data Mining, Artificial Intelligence and Machine Learning, Algorithm Design. Cryptography by University of Maryland, College Park on Coursera. Certificate earned on November 23, 2015, Distinction ¹ Software Security by University of Maryland, College Park on Coursera. Certificate earned on April 20, 2015, Distinction ² Usable Security by University of Maryland, College Park on Coursera. Certificate earned on March 16, 2015 ³
Languages	Italian, native speaker. English, European level CEFR C2. <ul style="list-style-type: none"> • International English Language Testing System, IELTS - score: 8.5/9. • University of Cambridge ESOL Certificate of Proficiency in English, CPE.
Programming	Java, Python, C / C++, Android application development
Awards	Accenture Digital Hackathon Rome 2016 Winner ⁴ NASA International SpaceApps Challenge 2015 Project CROPP, Global winner for category Galactic Impact and Rome competition local winner ⁵
Activities	Taekwondo Black Belt

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

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

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

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

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