Luca Borzacchiello

Curriculum Vitae

PhD student in computer engineer. Interested in program analysis and cybersecurity.

Qualifications

- 2018 now Ph.D. in Engineering in Computer Science, Sapienza University of Rome, Rome.
 2016 2018 Master of Science in Engineering in Computer Science, Sapienza University of Rome, Rome, 110 cum laude.
 Cybersecurity curriculum, GPA: 29.64. Courses held in English.
 2013 2016 Ingegneria Informatica e Automatica, Sapienza University of Rome, Rome.
 110 cum laude, GPA: 29.19
 - **Educational Experiences**
 - Sep 2019 Admitted to Summer School, System Security School, Padua. 2019 International Summer School on "System Security" (S3).
 - Jul 2019 Admitted to Summer School, Summer School on Hot Topics in Cybersecurity, Rome. International Cybersecurity Summer School.
- from Nov 2017 Admitted to Honors Program (Percorso di Eccellenza), Master at Sapienza, Rome, to July 2018 Advisor: Prof. Camil Demetrescu.

 Research activity on Symbolic Execution.
- from Mar 2017 Admitted to cybersecurity course, CyberChallenge.IT, Rome, 66 h.
 to June 2017 Italian training program in cybersecurity for talented students of age 17-23, organized by
 CINI and Sapienza.
 - May 2017 Admitted to Summer School, PLISS Summer School, Bertinoro. First International Programming Language Implementation Summer School.
 - July 2016 Admitted to Summer School, ECOOP Summer School, Rome.

 Programming languages summer school with technical and mentoring sessions for a career in research
- from Nov 2014 Admitted to Honors Program (Percorso di Eccellenza), Bachelor at Sapienza, Rome, to July 2016 Advisor: Prof. Camil Demetrescu.

 Research activity on Symbolic Execution.

Publications

- O Luca Borzacchiello, Emilio Coppa, Camil Demetrescu. Fuzzing Symbolic Expressions. International Conference on Software Engineering (ICSE), 2021.
- Luca Borzacchiello, Emilio Coppa, Daniele Cono D'Elia, Camil Demetrescu. Memory Models in Symbolic Execution: Key Ideas and New Thoughts. Software Testing, Verification and Reliability, 2019.
- o Marco Angelini, Graziano Blasilli, Luca Borzacchiello, Emilio Coppa, Daniele Cono D'Elia, Camil Demetrescu, Simone Lenti, Simone Nicchi, Giuseppe Santucci. SymNav: Visually Assisting Symbolic Execution. IEEE Symposium on Visualization for Cyber Security (VizSec), 2019.
- o Luca Borzacchiello, Emilio Coppa, Daniele Cono D'Elia, Camil Demetrescu. Reconstructing C2 Servers for Remote Access Trojans with Symbolic Execution. International Symposium on Cyber Security Cryptology and Machine Learning (CSCML), 2019.

Presentations

- 23/10/2019 SymNav: Visually Assisting Symbolic Execution, Presentation, IEEE Symposium on Visualization for Cyber Security (VizSec), Vancouver, Canada.
- 27/06/2019 Reconstructing C2 Servers for Remote Access Trojans with Symbolic Execution, Presentation, 3rd International Symposium on Cyber Security Cryptology and Machine Learning (CSCML), Be'er Sheva, Israel.

Teaching Experiences

- from Mar 2019 Teaching assistant of Functional and Parallel Programming course, Sapienza Univerto Jul 2019 sity of Rome, Rome.
- from Mar 2017 Teaching assistant of Computer Systems course, Sapienza University of Rome, Rome. to Jul 2018

Awards

- Completed flare-on 6 reverse engineering challenge. Organized by FireEye. 2019
- Third place in penetration testing at CyberChallenge.IT. Organized by Sapienza. 2017