

ANTONIO KEN IANNILLO

PhD candidate

INFO | *date of birth:* February 14, 1990
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EDUCATION | **UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II, NAPLES – ITALY**
PHD CANDIDATE (THIRD YEAR)
NOVEMBER 2014 – CURRENT

Winner of the public national selection to attend the “Information Technology and Electrical Engineering” PhD program organised by “Università degli Studi di Napoli Federico II”.

Research Topic: Dependability of Mobile Computing Systems, focusing on Android.

PhD Project Title: Android Fault Injection Testing research

Partners: Critiware s.r.l., Huawei Technologies Co. Ltd.

Highlights:

- I matured an in-depth knowledge of Android internals.
- I developed an Android Monitoring Tool, **AndroMonito**, for the analysis of field failure data from Android devices (http://www.mobilab.unina.it/android_en.html).
- I designed and implemented a fault injection tool, **FitDroid**, for Android devices. The tool is able to run on physical devices, and to inject faults in the native and HAL layers of Android.

Expected PhD Defence date: February 2018

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO SECONDO, NAPLES – ITALY
MSC DEGREE IN COMPUTER ENGINEERING)
NOVEMBER 2011 – JANUARY 2014

Thesis: “A Fault Injection Tool for Java Software Applications”
Evaluation: 110/110 cum laude

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II, NAPLES – ITALY
BACHELOR DEGREE IN COMPUTER ENGINEERING)
OCTOBER 2008 – OCTOBER 2011

Thesis: “Comparison between programming models in Facebook and Google Plus”
Evaluation: 110/110 cum laude

PUBLICATIONS | D. Cotroneo, F. Fucci, A.K. Iannillo, R. Natella, R. Pietrantuono***: “Software Aging Analysis of the Android Mobile OS”, Proc. of 1st IEEE Conference Network Softwarization (NetSoft 2015), 2015 on April 13-17, 2015

D. Cotroneo, A.K. Iannillo, R. Natella, R. Pietrantuono, S. Russo***: “The Software Aging and Rejuvenation Repository”, Proc. of the 26th IEEE International Symposium on Software Reliability Engineering (ISSRE 2015), November 2-5, 2015

D. Cotroneo, L. De Simone, A.K. Iannillo, A. Lanzaro, R. Natella***: “Dependability Evaluation and Benchmarking of Network Function Virtualization Infrastructures”, Proc. of 1st IEEE Conference Network Softwarization (NetSoft 2015), 2015 on April 13-17, 2015 **Conference Best Paper Award**

D. Cotroneo, L. De Simone, A.K. Iannillo, A. Lanzaro, R. Natella***: *"Usability of Fault Injection"*, Proc. of the 25th IEEE International Symposium on Software Reliability Engineering (ISSRE 2014), November 3-6, 2014

D. Cotroneo, L. De Simone, A.K. Iannillo, A. Lanzaro, R. Natella***, Jiang Fan, Wang Ping: *"Network Function Virtualization: Challenges and Directions for Reliability Assurance"*, Proc. of the 25th IEEE International Symposium on Software Reliability Engineering (ISSRE 2014), November 3-6, 2014

*** international authorship order does not apply; authors are in an alphabetic order, due to internal policies applied by the authors' research group.

EXPERIENCE | **RESEARCH ASSISTANT NORTHEASTERN UNIVERSITY, BOSTON, US** SEPTEMBER 2016 – APRIL 2017

Project: Vendor customizations on Android system services

Tutor: prof. Cristina Nita-Rotaru

Personal Contribution: Study and research on important challenges for the robustness (security and dependability) of the Android OS. Design and development of an innovative testing tool. Robustness and security testing on physical devices.

JUNIOR RESEARCHER CONSORZIO INTERUNIVERSITARIO NAZIONALE ITALIANO (CINI) JANUARY 2014 – OCTOBER 2014

Project: NFVI reliability

Partner: Huawei Technologies Co. Ltd.

Personal Contribution: Study and research of new approach for software reliability evaluation of virtualized environments for Network Function Virtualization (NFV). Design and implementation of a reliability evaluation tool for VMWare ESXi.

Project: PON SVEVIA

Personal Contribution: Study and research of usability for fault injection tools. Design and implementation of an integrated fault injection tool (Eclipse plug-in) for the setup, creation and result analysis of fault injection tests in Java and C/C++ software.

RESEARCH AND DEVELOPMENT LAB INTERN INFOSYS LTD JUNE 2013 – SEPTEMBER 2013

Study and research of new approaches for the injection of software defects. Design and development of a tool for fault injection into the Java Bytecode. This thesis work has been conducted in India during the preparation of my MSc. degree thesis.

LANGUAGES | **ITALIAN** Mother tongue

ENGLISH

Self-assessment:

Understanding: listening 9/10, reading 9/10

Speaking: spoken interaction 9/10, spoken production 9/10

Writing: 9/10

Certificate: University of Cambridge: FCE, council of Europe level B2

SPANISH

Little knowledge of the Spanish lexicon and grammar

**TECHNICAL SKILLS
AND
COMPETENCES**

IT LANGUAGES

Java, C/C++, Python, Bash scripting, XML, Java Bytecode, HTML, MySQL.

SOFTWARE AND TOOLS

Eclipse, IntelliJ Idea, Android Studio, Android tools, PyCharm, TexShop, VMWare ESXi and vCenter.

**OTHER SKILLS
AND
COMPETENCES**

SOCIAL

I enjoy in living and working with other people in multicultural environments, where communication and teamwork are essential.

ORGANIZATIONAL

I matured experience in coordinating small projects and administration of resources, both at work and at volunteering activities. Regional coordinator and local vice-president in youth and childish education for Gi.Fra. (Franciscan Youth) organization.

ARTISTIC

I am a hobbist dancer and former teacher of Caribbean dances, e.g. salsa, merengue, bachata. Sometimes, I perform in a community choir for charity.