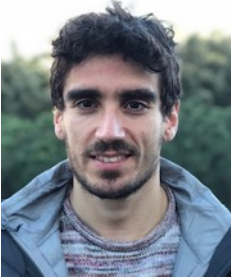# giovanni**grano**
ph.d. student @ uzh

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languages
italian mother tongue
fluent english

programming
Java, Python
Swift, Bash
R, LaTeX
COBOL

other skills
OO Programming
Project Management
iOS Development
UML

about

I was born in Campobasso (Italy) on April, 24th, 1990. I received (cum laude) the Bachelor's Degree in Computer Science from the University of Molise (Italy) in 2013, advised by Prof. Rocco Oliveto. Afterwards I moved to the University of Salerno, where in 2015 I received my Master's Degree (cum laude) in Computer Science, advised by Prof. Andrea De Lucia, defending a thesis on Search Based Software Testing.

Just after my M.Sc. I worked for one year as IT Analyst and Developer at Cedacri S.p.A., as a developer for the banking sector. In November 2016 I started my Ph.D., joining the s.e.a.l. group at the University of Zurich.

My main research interests include Search-Based Software Engineering (SBSE), with a main focus on Search-Based Software Testing (SBST), Software maintenance and evolution and Empirical Software Engineering.

education

2016 - now **Ph.D. Student** in Informatics — University of Zurich, Switzerland
Research Assistant in Software Evolution and Architecture Lab (s.e.a.l.) of the Prof. Harald Gall

2013 - 2015 **Master's Degree *(cum laude)*** in Computer Science — University of Salerno, Italy
Thesis: *Implementation and comparison of novel techniques for automated search based test data generation*
Advisor *Prof. Andrea De Lucia*

2009 - 2013 **Bachelor's Degree *(cum laude)*** in Computer Science — University of Molise, Italy
Thesis: *Un portale web per la pubblicazione delle attività di docenti universitari*
Advisor: *Prof. Rocco Oliveto*

experience

02-03 2018 **Research stay** — TU Delft, the Netherlands
Work on performance aware test case generation

10/15 - 9/16 **IT Analyst and Developer** — Cedacri S.p.A., Italy
Cedacri is the most important Italian company specialized in outsourcing services for the banking sector. I worked as an IT Analyst and Software Developer, mainly developing in COBOL, JS and C#

3/15 - 9/15 **Temporary Research Fellow** — University of Salerno, Italy
My work consisted on support the design of test environments with integration of methodologies for test scenarios generation. I collaborated to the design and implementation of OCELOT, a tool for search-based automated test case generation for C language

awards

| Mar 2018 | **SANER 2018** | Campobasso, Italy |
| | Best Tool Paper Demo Award | |

| Sep 2017 | **HackZurich 2017** | Zurich, Switzerland |
| | 1st Place Esri Award @ HackZurich 2017 | |

| May 2015 | **ICSE 2015 SCORE-IT Award** | Florence, Italy |
| | Finalist of SCORE-IT context during ICSE 2015 | |

personal projects

| May 2016 | **MyUnimol@iOS** | MyUnimol on App Store |
| | MyUnimol @ iOS is a native mobile app which allows the students of UNIMOL to smartly consult the details of their university career, such as exam degrees, available and enrolled exams, news, taxes and a lot more! | |

| May 2015 | **Speed It App** | SCORE-IT contest |
| | Speed It App is a system developed by a team of master student from University of Salerno, to participate at 2015 edition of ScoreIT context, during ICSE 2015. It is designed to speed up queues using a code QR in order to identify people before that their turn to be served arrive. With this project, *Team Molise* achieved final phase of SCORE-IT context which took place during ICSE 2015 edition | |

| Oct 2014 | **My Unimol Web App** | MyUnimol |
| | MyUnimol is a WebApp that fetches data from University of Molise's official students' portal (Esse3 system). Everything in this app is mobile optimized. I worked with a team composed of 4 people managing a distributed team of 12 developers, successfully managing and integrating the project | |

| Jun 2014 | **Repominer Evo** | RepominerEvo on GitHub |
| | Repominer Evo is a tool developed for the course of Software Engineer II at University of Salerno. It calculate a series of metrics useful for defect prediction based on entropy level in software packages | |

certifications

| Jan 2016 | **Machine Learning** | Coursera certificate |
| | Machine Learning by Stanford University | |

| Nov 2016 | **Data Visualization** | Coursera certificate |
| | Data Visualization by University of Illinois at Urbana-Champaign | |

| Dec 2016 | **Machine Learning: Classification** | Coursera certificate |
| | Machine Learning: Classification by University of Washington | |

publications

journals

[JSEP 19] Branch Coverage Prediction in Automated Testing
Giovanni Grano, Timofey V. Titov, Sebastiano Panichella, and Harald C. Gall
Journal of Software: Evolution and Process (2019). 2019

conferences and workshops

[ASE 18] OCELOT: A Search-Based Test Data Generation Tool for C
Simone Scalabrino, Giovanni Grano, Dario Di Nucci, Michele Guerra, Andrea De Lucia, Harald C Gall, and Rocco Oliveto
Proceedings of the 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE) 2018, 2018, Montpellier, France

[ICPC 18] An Empirical Investigation on the Readability of Manual and Generated Test Cases
Giovanni Grano, Simone Scalabrino, Rocco Oliveto, and Harald Gall
Proceedings of the 26th International Conference on Program Comprehension, ICPC, Gothenburg, Sweden, 2018

[SANER 18] Exploring the Integration of User Feedback in Automated Testing of Android Applications
Giovanni Grano, Adelina Ciurumelea, Sebastiano Panichella, Fabio Palomba, and Harald Gall
IEEE 25th International Conference on Software Analysis, Evolution and Reengineering, SANER 2018, Campobasso, Italy, 2018

[SANER 18] BECLoMA: Augmenting Stack Traces with User Review Information
Lucas Pelloni, Giovanni Grano, Adelina Ciurumelea, Sebastiano Panichella, Fabio Palomba, and Harald Gall
IEEE 25th International Conference on Software Analysis, Evolution and Reengineering, SANER 2018, Campobasso, Italy, 2018

[MaLTeSQuE 18] How High Will It Be? Using Machine Learning Models to Predict Branch Coverage in Automated Testing
Giovanni Grano, Timofey Titov, Sebastiano Panichella, and Harald Gall
MaLTeSQuE (Workshop on Machine Learning Techniques for Software Quality Evaluation), Campobasso, Italy, 2018

[WAMA 17] Android Apps and User Feedback: A Dataset for Software Evolution and Quality Improvement
Giovanni Grano, Andrea Di Sorbo, Francesco Mercaldo, Corrado A. Visaggio, Gerardo Canfora, and Sebastiano Panichella
Proceedings of the 2Nd ACM SIGSOFT International Workshop on App Market Analytics, 2017, Paderborn, Germany

[SSBSE 16] Search-Based Testing of Procedural Programs: Iterative Single-Target or Multi-target Approach?
Simone Scalabrino, Giovanni Grano, Dario Di Nucci, Rocco Oliveto, and Andrea De Lucia
Search Based Software Engineering - 8th International Symposium, SSBSE 2016, Raleigh, NC, USA, October 8-10, 2016, Proceedings, 2016

teaching

supervised students

2017	**Lucas Pelloni**	Bachelor Student, University of Zurich
	GUI usability and testing of mobile applications	

assistant

Fall 2017	Assistant for Informatik 1 (Fall Semester) - University of Zurich
	Assistant for Software Maintenance and Evolution (Fall Semester) - University of Zurich
Spring 2017	Teaching Assistant for Software Praktikum (Spring Semester) - University of Zurich

professional services

co-reviewer

2018	Mining Software Repositories **(MSR)**
	International Conference on Software Analytics, Evolution and Reengineering **(SANER)**
2017	Automated Software Engineering **(ASE)**
	Seminar Series on Advanced Techniques & Tools for Software Evolution **(SATToSE)**

grants

Feb 2018	**CHOOSE Grant**	500 CHF
	Grant to present a research paper at SANER 2018	
Dec 2017	**GRC Travel Grant**	1,200 CHF
	Grant for a research stay of 1 month in Delft University of Technology, the Netherlands	