

# **CURRICULUM VITAE OF SIMONE SCALABRINO**

December 5, 2017

# 1 General information

Simone Scalabrino was born in Campobasso, on March 28, 1991. He currently lives in Campobasso.

## 1.1 Contacts

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# 2 Education

He is currently a Ph.D. student at University of Molise, advised by Prof. Rocco Oliveto.

On July 24, 2015 he received (*magna cum laude*) a Master's Degree in Computer Science at University of Salerno, defending a thesis on Software Testing, entitled "Design and implementation of a tool for the automatic test case generation", advised by Prof. Andrea De Lucia.

On October 29, 2013 he received (*magna cum laude*) a Bachelor's Degree in Computer Science at University of Molise, defending a thesis on Software Quality, entitled "A new metric for measuring code readability", advised by Prof. Rocco Oliveto and Prof. Denys Poshyvanyk (College of William and Mary).

# 3 Projects

## 3.1 Research projects

From March to October 2015, he took part to the project "WISCH" (Working Into Shaping Campania Home), financed by Regione Campania and the European Union. He won a scholarship entitled "Study, selection, definition

and evaluation of structural testing methodologies for avionic software”.

### **3.2 Other projects**

He contributed, in a team of 4 persons, to the project “Speed-it app”, selected for the final competition of SCORE-it (ICSE 2015). The “Speed-it app” application was experimentally used at the registration desk of the conference.

He managed a team of 12 persons in an inter-university project (University of Salerno and University of Molise). The application (MyUnimol) is currently published on the Play Store and widely used by students at University of Molise.

## **4 Conferences and schools**

From March 1 to March 2, 2017 he participated to the 2nd edition of the “Days of Scientific Research” at University of Molise.

From September 13 to September 15, 2016 he participated to the “Unibz Summer School on Software Engineering” at University of Bolzano.

From June 13 to June 16, 2016 he participated to the “International Summer School on Software Engineering” at University of Salerno.

From March 1 to March 2, 2016 he participated to the 1st edition of the

“Days of Scientific Research” at University of Molise.

From September 8 to September 10, 2015 he participated to the “Unibz Summer School on Software Engineering” at University of Bolzano.

From June 16 to June 20, 2014 he participated to the “Summer School on Computer Vision and Pattern Recognition for Homeland Security” (VISMACH 2014).

## 4.1 Grants and awards

His paper “Improving Code Readability Models with Textual Features” received the ACM Distinguished Paper Award at the International Conference on Program Comprehension (ICPC) 2016.

He received the ACM SIGSOFT CAPS grant, supporting his participation to the 37th “International Conference on Software Engineering” (ICSE) 2015.

# 5 Teaching activities and presentations

## 5.1 Courses

He held a course about video-game development in Unity (1 ECTS) for the first year of the undergraduate program in Computer Science at University of Molise in 2017.

He held a course about video-game development in Unity (3 ECTS) in the laboratory of certified excellence for high-school students in 2017.

He held a course about video-game development in Unity (1 ECTS) for the first year of the undergraduate program in Computer Science at University of Molise in 2016.

He held a course about video-game development in Unity (1 ECTS) in the laboratory of certified excellence for high-school students in 2016.

## 5.2 Workshops

On July 3-4, 2017 he held the seminar “Introduction to scripting: automation is cool!” for the Summer School “Mathematics and Computer Science for Supporting Scientific Research” at University of Molise.

On January 20, 2016 he held a seminar about genetic algorithms and evolutionary test case generation for the third year of the undergraduate program in Computer Science at University of Molise.

## 5.3 Presentations

On May 25, 2017 he presented the poster “On Software Odysseys and How to Prevent Them” at the Student Research Competition of the International Conference on Software Engineering (ICSE-SRC) 2017 in Buenos Aires, Argentina.

On May 25, 2017 he co-presented the paper “Supporting Software Developers with a Holistic Recommender System” at International Conference on Soft-

ware Engineering (ICSE) 2017 in Buenos Aires, Argentina.

On March 1, 2017 he presented the work entitled “On code understandability: no half measures” at the second edition of the “Days of Scientific Research” at University of Molise.

On May 16, 2016 he presented the paper “Improving Code Readability Models with Textual Features” at the International Conference on Program Comprehension (ICPC) 2016 in Austin, TX.

On March 2, 2016 he presented the work entitled “Software vulnerabilities: an empirical classification based on programming language” at the first edition of the “Days of Scientific Research” at University of Molise.

On May 23, 2015 he presented the project “Speed it App” in the final phase of the “SCORE-it” competition, co-located with the 37th “International Conference on Software Engineering”.

## 6 Visiting student

From April to June 2017 he was a visiting student at University of Luxembourg. In such a period, he took part to the project “Extracting Privacy Information Flow Patterns using Program Analysis and Search-based Test Generation”, supervised by Prof. Domenico Bianculli.

From April to May 2016 he was a visiting student at Free University of

Bolzano. In such a period, he took part to the project “RPMA - Mining Users’ Reviews to Support the Release Planning of Mobile Apps”, supervised by Prof. Gabriele Bavota.

From August to September 2013 he was a visiting student at College of William and Mary (Williamsburg, Virginia). In such a period, he carried out research in the field of code readability, supervised by Prof. Denys Poshyvanyk.

## 7 Professional services

He is the Chief Scientific Officer of Datasounds, spin-off of the University of Molise (<http://datasounds.io>).

He will be the Local Arrangement co-Chair of the 25th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER) 2018 in Campobasso (<http://saner.unimol.it>).

He was selected as a student volunteer for the 38th “International Conference on Software Engineering” and he served under the supervision of Prof. Miryung Kim.

He was selected as a student volunteer for the 37th “International Conference on Software Engineering” and he served under the supervision of Prof. Filomena Ferrucci and Prof. Gordon Fraser.

I hereby declare to be informed, as per law 196/2003, that the personal data contained in such a resume will be treated as per law 196/2003.

Campobasso, December 5, 2017

Signature



## Appendix A: Publications

- J1 **S. Scalabrino**, G. Bavota, B. Russo, M. Di Penta, R. Oliveto. *Listening to the Crowd for the Release Planning of Mobile Apps*. Transactions on Software Engineering 2017, To appear.
- C7 B. Lin, **S. Scalabrino**, A. Mocci, R. Oliveto, G. Bavota and M. Lanza. *Investigating the Use of Code Analysis and NLP to Promote a Consistent Usage of Identifiers*. Proceedings of the International Working Conference on Source Code Analysis and Manipulation (SCAM) 2017, To appear.
- C6 **S. Scalabrino**, G. Bavota, C. Vendome, M. Linares-Vásquez, D. Poshyvanyk and R. Oliveto. *Automatically Assessing Code Understandability: How Far Are We?*. Proceedings of the International Conference on Automated Software Engineering (ASE) 2017, To appear.
- C5 F. Zampetti, **S. Scalabrino**, R. Oliveto, G. Canfora, M. Di Penta. *How Open Source Projects use Static Code Analysis Tools in Continuous Integration Pipelines*. Proceedings of the International Conference on Mining Software Repositories (MSR) 2017, pages 334-344. ISBN 9781538615447.
- C4 **S. Scalabrino**. *On Software Odysseys and How to Prevent Them*. Proceedings of the the International Conference on Software Engineering, Student Research Competition (ICSE-SRC), 2017, pages 91-93. ISBN 9781538615898.
- C3 Luca Ponzanelli, **S. Scalabrino**, G. Bavota, A. Mocci, R. Oliveto, M. Di Penta and M. Lanza. *Supporting Software Developers with a Holistic Recommender System*. Proceedings of the International Conference on Software Engineering, 2017, pages 94-105. ISBN 9781538638682.
- C2 **S. Scalabrino**, G. Grano, D. Di Nucci, R. Oliveto and A. De Lucia. *Search-based Testing of Procedural Programs: Iterative Single-Target or Multi-Target Approach?*. Proceedings of the International Symposium on Search Based Software Engineering, 2016, pages 64-79. ISBN 9783319471068.
- C1 **S. Scalabrino**, M. Linares-Vásquez, D. Poshyvanyk and R. Oliveto. *Improving Code Readability Models with Textual Features*. Proceedings of the International Conference on Program Comprehension, 2016, pages 1-10. ISBN 9781509014286.
- BC1 **S. Scalabrino**, S. Geremia, R. Pareschi, M. Bogetti and R. Oliveto. *Freelancing in the Economy 4.0 - How information technology can (really) help*. Book Chapter of “Social Media for Knowledge Management Applications in Modern Organizations” by F. Di Virgilio. To appear.

### Submissions to International Conferences or Journals (under revision)

- J2 **S. Scalabrino**, M. Linares-Vásquez, D. Poshyvanyk and R. Oliveto. *A Comprehensive Model for Code Readability*. Submitted to Journal of Software: Evolution and Process (Special Issue on ICPC).