

PERSONAL INFORMATION

Marco Radavelli



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Sex Male | Date of birth 11 January 1992 | Nationality Italian

RESEARCH

Publications and articles

A. Gargantini, M. Radavelli, **Migrating combinatorial interaction test modeling and generation to the web**, in the 7th International Workshop on Combinatorial Testing (IWCT 2018), Västerås, Sweden, April 13, 2018

P. Arcaini, A. Gargantini, and M. Radavelli, **An evolutionary process for product-driven updates of feature models**, in the 12th International Workshop on Variability Modelling of Software-Intensive Systems (VAMOS 2018), Madrid, Spain, February 7-9, 2018

A. Gargantini, J. Petke and M. Radavelli, **Combinatorial Interaction Testing for Automated Constraint Repair**, in the 6th International Workshop on Combinatorial Testing (IWCT 2017), Tokyo, Japan, March 13, 2017

A. Gargantini, J. Petke, M. Radavelli and P. Vavassori, **Validation of Constraints among Configuration Parameters using Search-Based Combinatorial Interaction Testing**, in "Search Based Software Engineering: 8th International Symposium, SSBSE 2016, Raleigh, NC, USA, October 8-10, 2016, Proceedings", pages 49-63

Research interests

I am interested in aspects and algorithms involving the usage of constraints in Software Engineering: Software Testing and Validation, Software Evolution and Software Product Lines, Search-Based Software Engineering, Machine Learning, Information Retrieval, Formal Methods, Quantitative Logics and Automata.

Paper review activity

I was a reviewer for the 6th International Workshop of Combinatorial Testing (IWCT 2017) and for 31st and 32nd Didamatica Italian Conference on eLearnig (Didamatica 2017 and 2018).

EDUCATION AND TRAINING

October 2016 - Present

PhD Student in Engineering and Applied Sciences

EQF level 8

University of Bergamo, via Salvecchio 19 - 24129 Bergamo (Italy)

- Specialization in Software Engineering, supervised by Prof. Angelo Gargantini
- Topic of the ongoing thesis is the application of combinatorial testing and evolutionary algorithms to repair models of configurable systems.

August 2018 – September 2018

Visiting Researcher

EQF level 8

Department of Computer Science and Engineering, University of Texas at Arlington, Engineering Research Building, Room 640, Box 19015, Arlington, TX 76010 (USA)

- Collaboration on a project regarding model-based testing to improve the quality of medical software, in the group of Prof. Jeff Lei.

October 2014 – September 2016

MSc in Computer Engineering

EQF level 7

University of Bergamo, via Salvecchio 19 - 24129 Bergamo (Italy)

- Master's degree in Computer Engineering (Laurea Magistrale in ingegneria informatica) with final grade 110/110 cum laude
- Final thesis with title "Improving the Readability of Boolean Formulas", supervisor Prof. Angelo Gargantini and Prof. Sarah Nadi.
- Specialization in Information Systems and Networks

March 2016 – August 2016

Erasmus+ exchange student

EQF level 7

Technische Universität Darmstadt (Germany) – Fachbereich Informatik (Computer Science department)

- Master Thesis
- German language courses
- Seminar: "Formal specification and deductive verification of distributed and multithreaded software"

19.04.2016 – 26.04.2016

Visiting researcher

EQF level 7

Harvard Graduate School of Design - 48 Quincy St, Cambridge, MA 02138, USA

- Participation in the joint project between University of Bergamo and Harvard GSD "Real Citizens – Bergamo 2.035". Collaboration in a team for the design, model and presentation of a project for a possible future mobility solution for the city of Bergamo.
- The project itself lasts from November 2015 to 4 July 2016.

July 2014 – December 2014

Erasmus+ exchange student

EQF level 7

Norwegian University of Science and Technology (NTNU), Trondheim (Norway) – IME faculty – Computer Science

- Attended the following courses: Model-Driven Development of Information Systems, Software Security, Project Planning and Control, and Customer Driven Project (for a Norwegian company: SINTEF Fisheries and Aquacultures)

September 2011 – December 2014

BSc in Computer Engineering

EQF level 6

University of Bergamo, via Salvecchio 19 - 24129 Bergamo (Italy)

- Bachelor's degree in Computer Engineering (Laurea in ingegneria informatica) with final grade 110/110 cum laude
- Final dissertation with title "Automated non regression test for enterprise software", supervisor Prof. Paolo Salvaneschi

2006 - 2011

Secondary school diploma

EQF level 4

ITIS "P. Paleocapa", via Gavazzeni 29 – 24125 Bergamo (Italy)

- "Perito Industriale Capotecnico con specializzazione in Informatica industriale" diploma obtained in 2011 with final grade 100/100 cum laude.

WORK EXPERIENCE

October 2016 – Present

Teaching Assistant

University of Bergamo, via Salvecchio 19 - 24129 Bergamo (Italy) - <http://www.unibg.it/>

- Instructor of tutorials within the courses "Informatics II", "Informatics III", and "Testing and Software Verification" in A. Y. 2016-17, 17-18, 18-19, taught by Prof. Angelo Gargantini and Prof. P. Scandurra.
- Topics covered in the tutorials: Java Language, XML, Json, Git, Java GUI (Swing), REST APIs, Webservices, rich client applications, MVC and design patterns, static and dynamic analysis of code, tools for programming in Java, Android framework, model based testing.

Business or sector IT, Education, University

January 2012 - Present

Scientific Animator

Confindustria Bergamo (Italy), <http://www.confindustriabergamo.it/>

- Scientific animator for children of primary and lower secondary school (9-14 years old), in the robotics lab "Esplora! Robotica"

Business or sector Education

- December 2016 - February 2018** **Teacher**
Fondazione "Istituto Tecnico Superiore per le nuove tecnologie e per il made in Italy", via del Convento 1 – 24060 San Paolo d'Argon (Italy) - <http://www.fondazioneits.org/>
- Teacher of Java courses for students of a post-diploma specialization course.
- September 2015 – January 2016** **Teaching Assistant**
University of Bergamo, via Salvecchio 19 - 24129 Bergamo (Italy) - <http://www.unibg.it/>
- Instructor of series of 4 practical trainings (2 academic hours each) within the course "Informatics III B", in Academic Year 2015-2016, taught by Prof. Patrizia Scandurra.
 - Topics covered: XML, Json, Git, Java GUI (Swing), MVC and design patterns, software static analysis and dynamic analysis, tools for programming in Java.
- Business or sector** IT , Education, University
- May 2013 – January 2016** **IT Consultant**
Salvaneschi & Partners, Via Milano 8, 24128 Bergamo, Bergamo (Italy), <http://www.salvaneschi.com/>
- Software testing for enterprise applications
- **Business or sector** IT, Services
- September 2011 – October 2015** **IT Consultant**
Easy Share Finance Srl, via Goethe 24 – 24128 Bergamo - <http://www.easysharefinance.com/>
- Development and maintenance of websites and financial software. Technologies: PHP, VBA, VB.NET.
- Business or sector** IT, Finance, Services
- May 2015 – October 2015** **Mobile App Developer**
SIPH CLUB s.r.l., Via Antonio Varisco, 2 - 24125 Bergamo (Italy), <http://www.siphlab.com>
- Android app development
- **Business or sector** IT
- May 2015 - July 2015** **Mobile App Developer**
Netensify Srl, Via XX Settembre, 116 - 24122 Bergamo (Italy)
- Android app development
- **Business or sector** IT
- 29 June 2015 - 6 July 2015** **Secondary School Teacher**
ITIS "P. Paleocapa", via Gavazzeni 29 – 24125 Bergamo - <http://www.itispaleocapa.it/>
- Teacher of summer recovery courses in Informatics, Systems and Networks for high school students (24 total teaching hours, distributed in 4 courses).
- February 2015 - July 2015** **University tutor**
University of Bergamo, via Salvecchio 19 - 24129 Bergamo (Italy) - <http://www.unibg.it/>
- Tutor for the course "Informatics II - module of Object Oriented Programming", taught by prof. Angelo Gargantini
 - Create quizzes with Kahoot about the topics of the course, and generate reports and statistics.
- January 2013 - February 2013** **Software Developer**
Globo Srl, Viale Europa, 17/B - 24048 Treviolo (Italy) - <http://www.globogis.it/>

- Developer of a Java applet for digitally signing documents with smartcards and tokens, using SHA-256withRSA and CAdES formats

September 2012 - December 2012

Mobile Software Developer

Ebi di Elisa Bernardoni, via Brigata Bergamo 3, Bergamo (Italy) - <http://ebizone.it/>

- Developer of the Android apps “I Vini di Veronelli 2013” and “BergamoScienza 10th edition”

July 2012 - November 2012

Mobile App Developer

Netensify Srl, Via XX Settembre, 116 - 24122 Bergamo (Italy)

- Android app development

August 2011 - July 2012

Java and web developer

Sumeno Srl, Via San Giovanni Bosco, 17 – 24049 Verdello (Italy) (now closed)

- Development of a software involving Microsoft Kinect device, using Processing and OpenNI libraries.

July 2011 - August 2011

Software Developer

Giumatech Srl, Via Lega Lombarda 64 - 24040 Bonate Sopra (Italy) (now closed)

- Internship as a programmer: deployment of JSP servlets in JBoss AS, and a user-interface with GWT (Google Web Toolkit)

July 2010 - August 2010

IT Internship

Easy Share Finance Srl, via Goethe 24 – 24128 Bergamo (Italy) - <http://www.easysfinance.com/>

- Research and analysis of software for online video-conference (webinar and online meeting), and development of a financial software in Microsoft Excel and VBA.

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Fluent level. TOEFL iBT with total score 98, obtained in 11/06/2016					
Norwegian	B2	B2	B2	B2	B2
A2 certificate assessed by NTNU after Norwegian Summer Course for International Students in August 2014. Current level B2 self evaluated					
German	B2	B2	B2	B2	B2
Certificate: UNlcert II – with grade 1.7 (good)					
French	A2	B1	A2	A2	A2
level A2 assessed by an internal test at University of Bergamo, during the Erasmus+ selection procedure					
Swedish	B1	B1	A2	A2	A2
levels self-evaluated					
Russian	A1	A2	A1	A1	A1
levels self-evaluated					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- good communication skills gained through my experience as teacher in secondary school, and as scientific animator.

- Organisational / managerial skills**
- team-working (from several projects in teams, done during my Erasmus+ experience at NTNU)
 - project management competence (gained in several University courses, such as Project Planning and Control, and Management of ICT Systems)
- Job-related skills**
- good command of software quality testing and verification processes and methods
 - good command of programming languages Java, C/C++, C#, VBA, VB.NET, Python, R, Matlab
 - good command of DataBase design and implementation: MySql, PostgreSQL, MS Access, SQLite.
 - Knowledge of Web Technologies: Javascript, jQuery, HTML, CSS3, PHP, JSP, Apache Tomcat, GWT, tool Sahi for automated testing. Short experience in developing web-application with Spring and Maven on Apache Tomcat, and development of Java Servlet deployed on JBoss.
 - Experience in technical assistance of PCs and local networks.
 - Experience in software development and software testing.
 - Experience in development of applications for Android OS.
- Computer skills**
- good command of Microsoft Office™ tools (ECDL certificate), and multimedia editing tools such as GIMP, Photoshop, InDesign, Audacity.
- Other skills**
- author of some poetries, mentioned in local poetry contests.
- Driving licence**
- B

ADDITIONAL INFORMATION

- Seminars**
- Completed online course "Competences for 21st Century Schools", offered within the Erasmus+ Program for teacher education "School Education Gateway – Teacher Academy", Brussels, October 16, 2016
- Honours and awards**
- Mikos Learning AS' training "Sales techniques with exercises in groups". Trondheim, October 1, 2014
 - 1st position in "IX Gara Nazionale Informatica Abacus 2010", a national contest in Informatics for students at technical high schools. Castelfranco Veneto, 4-5 November 2010.
 - 8th position (silver medal) in Italian Olympiad in Informatics (OII) - Sirmione (Italy), 6-11 October 2010.
 - Awarded mention of merit in the 10th (May 2010) and 11th (May 2011) poetry contest for students "E' dentro di noi un fanciullino", organized by "Liceo Scientifico F. Lussana", Bergamo.
 - ECDL (European Computer Driving Licence), awarded April 28, 2009.

Bergamo, November 27, 2018

Marco Radavelli