

Romina Eramo

Phd

*...nothing is lost, nothing is created, everything is transformed.
Antoine-Laurent de Lavoisier*

Current Position

- Research Fellow Main research interests include Model Driven Engineering (MDE), Model Transformation, Web engineering and Web development. Furthermore, I'm applying model driven techniques in the fields of Performance Modeling and Architectural Description Languages (ADL).
- Freelance Consultant The consulting activity concerns the field of IT. I am expert on software engineering and software services and solutions. Mainly, I am specialized in design and development of Web and Mobile Applications.

Education

- Nov 2006 - Apr 2011 **Phd Student in Computer Science**, *Department of Computer Science, University of L'Aquila, Italy.*
Subject of the thesis: "Bidirectional and Change Propagating Model Transformations in MDE"
Supervisor: Prof. Alfonso Pierantonio
- Dec 2003 - Jul 2006 **Master degree in Computer Science**, *Faculty of Mathematics, Physics and Natural Sciences, University of L'Aquila, Italy.*
Subject of the thesis: "Problems of Bidirectionality and Evolution in Model Transformation",
Supervisor: Prof. Alfonso Pierantonio (final mark: 110/110 "e lode")
- Oct 2004 - Jul 2005 **Postgraduate diploma in Web Technology**, *Faculty of Mathematics, Physics and Natural Sciences, University of L'Aquila, Italy.*
Experience in the engineering of software environments based on Internet with client-server programming skills, design and implementation of distributed databases, administration of server systems.
- Oct 2000 - Dec 2003 **Bachelor degree in Computer Science**, *Faculty of Mathematics, Physics and Natural Sciences, University of L'Aquila, Italy.*
Subject of the thesis: "Conceptual Modelling of a Web Portal through UML" Supervisor: Prof. Alfonso Pierantonio
- Sep 1995 - Jul 2000 **High-school degree (perito informatico)**, *Istituto Tecnico Commerciale Statale "A. De Nino", Sulmona (Aq), Italy.*

Work Experience

- Since Apr 2011 **Research Fellow**, *Department of Computer Science, University of L'Aquila, Italy.*
Scientific research in the Software Engineering Research Group.

- Since Jan 2006 **Designer and Developer**, *Freelance consulting*, Italy.
Design and Development of Web Applications
- Jan 2010 - **Software Consultant**, *RELUIS*, L'Aquila, Italy.
Dec 2011 Project management, analysis, design, development and maintenance of the software application storing and managing the activity of the RELUIS (Rete dei Laboratori Universitari di Ingegneria Sismica) in L'Aquila.
- Oct 2007 - **Software Consultant**, *Infomedia Group s.r.l.*, L'Aquila, Italy.
Jul 2008 Project management, analysis, design, development and maintenance of the web application storing and managing the activity of the Figc Lazio and Figc Marche. Work based on LAMP platform, PHP5, SQL, HTML, PERL, Linux server and several design patterns.
- Nov 2006 **Teacher**, *ICS Project Srl*, L'Aquila, Italy.
Teacher of the training course "Web Designer" at the private school J. Maritain
- Oct 2006 **Teacher**, *ICS Project Srl*, L'Aquila, Italy.
Teacher of the unit "Software tools for hotel management" in the training course "Tourist consulting" at the private school J. Maritain
- Sep 2006 **Teacher**, *ICS Project Srl*, L'Aquila, Italy.
Teacher the unit "Excel for bookkeeping management" in the training course "Administration-office worker" at the private school J. Maritain
- Sep 2005 - **Teacher**, *ICS Project Srl*, L'Aquila, Italy.
Jul 2006 Teacher of Computer Science in the high private school J. Maritain
- May 2005 - **IT Trainee**, *Siemens CNX Spa*, L'Aquila, Italy.
Aug 2005 Project management, analysis, design and development of a business web application. Work based on LAMP platform, PHP5, SQL, HTML, and several design patterns.

Academic Experience

International/national collaborations

- May - Oct 2009 **Visitor researcher**, *Software Engineering Research Group, Ing. Antonia Bertolino*, Istituto di Scienza e Tecnologie dell'Informazione A. Faedo (ISTI), CNR in Pisa, Italy.
- Oct - Dec 2007 **Visitor researcher**, *Software Engineering Research Group, Prof. Antonio Vallecillo*,
and Jun 2008 University of Malaga, Dep. Language and Science of Computation, Spain.

Teaching

- Since Mar 2012 **Teacher for the course Operative Systems Laboratory**, *Department of Computer Science, University of L'Aquila*, Italy.
- Since Apr 2010 **Assistant and teacher of some lessons for the course Model Driven Engineering**, *Department of Computer Science, University of L'Aquila*, Italy.
- Since Dec 2007 **Assistant and teacher of some lessons for the course Web Technologies**, *Department of Computer Science, University of L'Aquila*, Italy.

Schools and courses

- Apr 2009 **MDD4DRES09**, *International School on Model-Driven Development for Distributed Realtime Embedded Systems*, Aussois, France.
- Nov 2007 **RedMDS**, *Meeting of the working groups on MDS (Model Driven Software Development)*, Malaga, Spain.

Jul 2007 **GTTSE07**, *International School on Generative and Transformational Techniques in Software Engineering*, Braga, Portugal.

Reviewer for publications

- 2012 Int. Conference on Web Engineering (ICWE 2012)
Int. Conference on Software Engineering (ICSE 2012)
Int. Conference on Fundamental Approaches to Software Engineering (FASE 2012)
European Conference on Modelling Foundations and Applications (ECMFA 2012)
- 2011 Int. Workshop on Model-Driven Engineering, Logic and Optimization ... (MELO 2011)
Int. Journal of Information Technology and Decision Making (IJITDM 2011)
- 2010 Int. Conference on Model Driven Engineering Languages & Systems (MODELS 2010)
Int. Conference on Software Engineering and Knowledge Engineering (SEKE 2010)
Int. EUROMICRO Conf. on Software Engineering and Advanced Applications (SEAA 2010)
- 2009 Int. Conference TOOLS-EUROPE 2009
- 2008 Int. Workshop on Model Driven Web Engineering (MDWE 2008)

Other activities

- Since 2007 Local Organization, Master in Web Technology, University of L'Aquila, Italy
- Sep 2008 Local Workshop Arrangements, ASE 2008 Organization

Publications

- 2012 V. Cortellessa, R. Eramo, M. Tucci and A. Pierantonio, Performance-driven Architectural Refactoring through Bidirectional Model Transformations, Procs. of the 8th International ACM Sigsoft Conference on the Quality of Software Architectures (QoSA 2012), Bertinoro (Italy)
- 2011 J. Denil, A. Cicchetti, M. Biehl, P. De Meulenaere, R. Eramo, S. Demeyer and H. Vangheluwe, Automatic Deployment Space Exploration Using Refinement Transformations, Procs. of the 5th Int. Workshop on Multi-Paradigm Modeling (MPM'11) at MoDELS 2011, Wellington (New Zealand)

A. Cicchetti, D. Di Ruscio, R. Eramo and A. Pierantonio, Logical constraints for managing non-determinism in bidirectional model transformations, Int. Workshop on Model-Driven Engineering, Logic and Optimization: friends or foes? (MELO 2011), in conjunction with ECMFA 2011, Birmingham, UK
- 2010 A. Cicchetti, D. Di Ruscio, R. Eramo and A. Pierantonio, JTL: a bidirectional and change propagating transformation language, 3rd International Conference on Software Language Engineering (SLE 2010), Eindhoven (The Netherlands)

R. Eramo, I. Malavolta, H. Muccini, P. Pelliccione and A. Pierantonio, A model-driven approach to automate the propagation of changes among Architecture Description Languages, Software and Systems Modeling (2010)

V. Cortellessa, A. Di Marco, R. Eramo, A. Pierantonio, C. Trubiani, Digging into UML models to remove performance antipatterns, First Int. Workshop on Quantitative Stochastic Models in the Verification and Design of Software Systems (QUOVADIS 2010), Cape Town (South Africa)

- 2009 V. Cortellessa, A. Di Marco, R. Eramo, A. Pierantonio, C. Trubiani, Approaching the model-driven generation of feedback to remove software performance flaws, Proc. of the 35th Int. Euromicro SEEA 2009 Conference (SEEA2009), Patras (Greece)
- A. Cicchetti, D. Di Ruscio, R. Eramo, F. Maccarrone, A. Pierantonio, beContent: A Model-Driven Platform for Designing and Maintaining Web Applications, Proc. of the 9th Int. Conference on Web Engineering (ICWE 2009), San Sebastián (Spain)
- 2008 R. Eramo, A. Pierantonio, J.R. Romero, A. Vallecillo, Change Management in Multi-Viewpoint System Using ASP, Proc. of the 5th Int. Workshop on ODP for Enterprise Computing (EDOC 2008), Munich (Germany)
- A. Cicchetti, D. Di Ruscio, R. Eramo and A. Pierantonio, Automating Model Co-evolution in Model-Driven Engineering, Proc. of the 12th Int. EDOC Conference (EDOC 2008), Munich (Germany)
- A. Cicchetti, D. Di Ruscio, R. Eramo and A. Pierantonio, Meta-model Differences for Supporting Model Co-evolution, Proc. of the 2nd Int. Workshop on Model-Driven Software Evolution (MoDSE 2008), Athens (Greece)
- 2006 A. Cicchetti, D. Di Ruscio, R. Eramo, Towards Propagation of Changes by Model Approximations, Int. Workshop on Models for Enterprise Computing (IWMEC 2006), in conjunction with EDOC 2006, Hong Kong

Languages

Italian	Native tongue
English	Independent user
Spanish	Basic User

Technical skills and competences

Languages	Programming: C, C++, Java, Pascal Logic programming: Answer Set Programming, Prolog Scripting: PHP, JavaScript Data Base: SQL Markup: HTML, XHTML, CSS, XML, XSL, LaTeX Design: UML 2.0, WAE (Conallen) W3C: HTML, XHTML, CSS, SOAP Accessibility: WCAG Model transformation: ATL, QVT Publishing: RSS 2.0
Operative Systems	Linux, Windows, Mac OS
Standard IDE	Java: IntelliJ IDEA, Eclipse, NetBeans, Borland JBuilder PHP: Zend Development Environment, Aptana Studio CASE tool UML: Rational Rose, MS Visio, ArgoUML, MagicDraw Html: AceHTML, Macromedia Dreamweaver

Xml: XmlSpy

Data Base Oracle, MySQL, PostgreSQL

Platforms Java: J2EE, Apache Struts
and frameworks Eclipse platforms
Model management platforms: AMMA (AM3, AMW, ATL, KM3, TCS)

Tools Office: StarOffice, OpenOffice
Graphic: Adobe PhotoShop, Jasc Paint Shop, Gimp

Interests

In the spare time I like to play several sports

I have a passion for new technologies

I authorize the treatment of personal data as provided for by the current directives (Law No. 196 of 30 June, 2003).

Romina Eramo

20/05/2012