

Dr. Davide Eynard, PhD

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Personal Information

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Education

2006 - 2008 *Doctor of Philosophy (PhD) in Computer Engineering*, Politecnico di Milano, Italy.
Thesis: "A Virtuous Cycle of Semantics and Participation" (topic: enhancing participative systems with semantic technologies).
Advisor: Prof. Marco Colombetti, Politecnico di Milano, Italy.
Tutor: Prof. Andrea Bonarini, Politecnico di Milano, Italy.

1994 - 2005 *Master Degree in Computer Engineering*, Politecnico di Milano, Italy.
Thesis: "Design and Development of a Reasoner for Some Families of Description Logics".
Advisor: Prof. Marco Colombetti, Politecnico di Milano, Italy.
Co-advisor: Ing. Mario Arrigoni Neri, Politecnico di Milano, Italy.
Grade: 85/100.

1985 - 1991 *High school degree in classical studies* ("diploma di maturità classica"), Liceo Classico "Bartolomeo Zucchi", Monza (MB), Italy.
Grade: 48/60.

Teaching

2011 - now Teaching assistant of "Pattern Analysis and Machine Intelligence" (M.S.) at Politecnico di Milano, Italy.

2010 - now Lecturer of "Internet Technology" (M.S.) and "Tecnologie di Internet" (B.S.) at

Università della Svizzera Italiana, Faculty of Communication sciences.

- 2009 – now Teaching assistant of “Software Technology 2” (M.S.) at Università della Svizzera italiana, Faculty of Communication sciences.
- 2005 – 2010 Teaching assistant of “Methodologies for Intelligent Systems” (M.S.) at Politecnico di Milano, Italy.
- 2005 – 2009 Teaching assistant of “Informatics B” (B.S.) at Politecnico di Milano, Italy.
- 2005 – 2009 Teaching assistant of “Informatics C Lab” (B.S.) at Politecnico di Milano, Italy.

Research Experience

- 2011 Post-doctoral fellow at Università della Svizzera Italiana, Lugano, Switzerland, funded by Hasler Stiftung (<http://www.haslerstiftung.ch>), project titled “Developing a conceptual framework for agreement technologies”. Head of project at USI: prof. Marco Colombetti.
- 2009 – 2010 Post-doctoral fellow at Università della Svizzera Italiana, Lugano, Switzerland, funded by KTI (<http://www.bbt.admin.ch/kti/>), project titled “Web2Rism”, aimed at building a business intelligence software for the tourism field which extracts User Generated Contents (UGC) from the Web and analyzes the online reputation of a given destination. Head of project at USI: prof. Lorenzo Cantoni.
- 2010 Post-doctoral fellow at Politecnico di Milano, Italy, funded by the European Research Council (ERC), responding to the 2008 Call for “IDEAS Advanced Grants”, project title “Search Computing” (<http://www.search-computing.it>). Main topic: research on a semantic extension for the registration of Service Marts in the context of Search Computing. Head of project at PoliMI: prof. Stefano Ceri.
- 2009 Post-doctoral fellow at Politecnico di Milano, Italy, funded by the company Noustat, Milano, Italy (<http://www.noustat.it/>), project title “Extraction”, aimed at developing a tool for the semiautomatic extraction of ontologies from natural text. Head of project at PoliMI: prof. Andrea Bonarini.
- 2008 Summer internship in the Chameleon group in the Business Optimization Lab at HP Labs, Palo Alto, California, US. As a result, a framework has been built to allow users store their browser history and bookmarks in the RDF format, and then use this information to provide a personalized browsing experience through a Firefox extension.
- 2007 Summer internship in the Personal Collaboration group in the Mobile Media Systems Lab at HP Labs, Palo Alto, California, US. As a result, an IMAP plugin for the SquirrelRDF application (<http://jena.sf.net/SquirrelRDF>) has been developed.

Industrial Experience

From 1998 to 2005 I have worked as a consultant in the field of informatics. My most significative collaboration has been the one with the software house *TTY Creo S.r.l.* (located in via Prealpi 13, Giussano - Italy), from 2001 to 2004. There I covered different positions: **teacher for internal courses** about Linux and the Perl programming language, **Linux system administrator**, **Analyst**, **Programmer**, and **Project Manager**. I have led a Web development project for the insurance company Zurich, mainly using Perl and PHP and accessing Oracle and MySQL databases. I also collaborated to a project for Poste Italiane, managing their database with stored procedures in Microsoft SQL server, and performed the merging of huge data repositories from insurance companies on Oracle and Firebird databases.

List of Publications

Papers published in journals:

- 2010 Stefano Ceri, Adnan Abid, Mamoun Abu Helou, Davide Barbieri, Alessandro Bozzon, Daniele Braga, Marco Brambilla, Alessandro Campi, Francesco Corcoglioniti, Emanuele Della Valle, Davide Eynard, Piero Fraternali, Michael Grossniklaus, Davide Martinenghi, Stefania Ronchi, Marco Tagliasacchi, Salvatore Vadacca. "Search Computing: Managing Complex Search Queries". IEEE Internet Computing, vol. 14, no. 6, pp. 14-22, Nov./Dec. 2010.

Papers published in conference proceedings:

- 2011 Antonina Dattolo, Davide Eynard, and Luca Mazzola. "An Integrated Approach to Discover Tag Semantics". 26th Annual ACM Symposium on Applied Computing, vol. 1, pp. 814-820. Taichung, Taiwan, March 2011.
- Elena Marchiori, Davide Eynard, Alessandro Inversini, Lorenzo Cantoni, and+ Francesco Cerretti. "Harvesting Online Contents: an Analysis of Hotel Reviews Websites". In R. Law, M. Fuchs & Francesco Ricci (Eds.), Information and Communication Technologies in Tourism 2011 – Proceedings of the International Conference in Innsbruck, Austria (pp. 101-112). Wien: Springer.
- 2010 L Mazzola, D Eynard, and R Mazza: "GVIS: a framework for graphical mashups of heterogeneous sources to support data interpretation", IEEE 3rd International Conference on "Human System Interactions" (HSI) 2010, pp. 578-584, Rzesow, Poland, May 2010.
- S Ceri, A Abid, M Abu Helou, D Braga, A Bozzon, M Brambilla, A Campi, F Corcoglioniti, E Della Valle, D Eynard, P Fraternali, M Grossniklaus, D Martinenghi, S Ronchi, M Tagliasacchi, and S Vadacca: "Search Computing Systems", Proceedings of 18th Italian Symposium on Advanced Database Systems (Extended Abstract), Rimini, Italy, June 2010.
- 2008 S Bindelli, C Criscione, C A Curino, M L Drago, D Eynard, and G Orsi: "Improving Search and Navigation by Combining Ontologies and Social Tags", Proceedings of the OTM Confederated International Workshops and Posters on On the Move to Meaningful Internet Systems, pp. 76-85, Berlin, Heidelberg, Springer-Verlag, 2008.
- D Eynard and M Colombetti: "Exploiting User Gratification for Collaborative Semantic Annotation", Proceedings of the Fifth International Workshop on Semantic Web User Interaction (SWUI 2008), pp. 31-37, Florence, Italy, April 5, 2008.
- 2007 D Laniado, D Eynard, and M Colombetti: "A semantic tool to support navigation in a folksonomy", Proceedings of the 18th conference on Hypertext and Hypermedia, pp. 153-154, Manchester, Sep 2007.
- D Eynard: "Research on collaborative information sharing systems", Proceedings of the Knowledge Web PhD Symposium 2007, pp. 81-82, Innsbruck, Aug 2007.

Technical reports:

- 2008 D Eynard: "Using semantics and user participation to customize personalization", HP Labs Technical Report HPL-2008-197, HP Labs, Palo Alto, Dec 2008.
- 2007 D Eynard, J Recker, and C Sayers: "An IMAP Plugin for SquirrelRDF", HP Labs Technical Report HPL-2007-161, HP Labs, Palo Alto, Oct 2007

Books (non-scientific):

- 2000 L Cattaneo and D Eynard: "Linux senza fatica", McGraw-Hill, Milano, Italy, 2000.

- D Eynard and M Acquafresca: *"A scuola con Internet Explorer 5"*, Jackson Libri, Milano, Italy, 2000.
- 1999 D Eynard: *"One Shot Internet Explorer 5"*, Jackson Libri, Milano, Italy, 1999.
- 1998 D Eynard: *"Internet Explorer 4 No Problem"* and *"Internet Explorer 4 Mini No Problem"*, McGraw-Hill, Milano, Italy, 1998.

International Conference Program Committee and Journal Reviewer

- 2011 Reviewer for the International Journal on Artificial Intelligence Tools (IJAIT)
- 2009 Member of the PC of the International Workshop on Community-based Evolution of Knowledge-intensive Systems (COMBEK 2009) co-located with OTM conferences 2009, Vilamoura, Portugal, November 2009.
- Member of the PC of the 3rd workshop on Social Aspects of the Web (SAW 2009) organized in conjunction with the 12th International Conference on Business Information Systems - BIS 2009, Poznan, Poland, April 2009.
- 2008 Member of the PC of the International Workshop on Interacting with Multimedia Content in the Social Semantic Web (IMC-SSW 2008), co-located with the 3rd International Conference on Semantic and Digital Media Technologies - SAMT 2008, Koblenz, Germany, December 2008.
- Member of the PC of the International Workshop on Community-based Evolution of Knowledge-intensive Systems (COMBEK 2008) co-located with OTM conferences 2008, Monterrey, Mexico, November 2008.
- Member of the PC of the 2nd workshop on Social Aspects of the Web (SAW 2008) organized in conjunction with 11th International Conference on Business Information Systems - BIS 2008, Innsbruck, Austria, April 2008.

Personal skills and competencies

Mother tongue: Italian

Other languages:

English

Reading skills: excellent
Writing skills: excellent
Verbal skills: excellent

I can program in different languages: Perl, Java, and PHP are the ones I currently use more often, but I also have an advanced knowledge of C and ASM as I have both used and taught them extensively. Moreover, I can learn new languages quickly, and I am very motivated to do that (i.e. I am currently experimenting with Python). I am a computer security passionate and I won, together with the team of Politecnico di Milano, the "Capture the flag" contest twice (<http://www.publicshout.org/CTF/>). I have been quite deep, for many years, into reverse engineering and software protections, cryptography, steganography and artificial intelligence. I have a deep knowledge of the many technologies (protocols, data formats, languages) which make up the Internet and I like to experiment with them (see my posts at <http://davide.eynard.it>).

Many years of sports (ten years of volley) and team work made me accustomed to relationship and cooperation with people. I have always been an active member of many groups, different for size and tipology (mates, colleagues, university friends, associations, clubs, virtual communities), and I love to talk with people different from me for culture, ideas and interests.

I have good organisational skills, mainly developed at work where I had to coordinate, as a project chief, a group of programmers and had to work on the design of many different applications. I have managed an online community for years and I have collaborated to the organisation of many “real life” events (meetings, courses, seminars). Since 2006 I have tutored more than 20 between Bs and Ms projects and theses.

I have been running a website for many years (<http://3564020356.org>), at the same time an online game and a community, based on riddles about cryptography, steganography, reverse engineering and Web search. Since 2000 I present seminars of different complexity (from basic to very technical) about computers. I have been writing (non scientific) articles since 1997, and published them on the Internet and on specialized magazines.

Lugano, August, 22nd 2011