

Jordi Cabot

Curriculum Vitae
Nantes, April 2014

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PERSONAL DETAILS

Jordi Cabot Sagrera (where *Jordi* is the first name and *Cabot* and *Sagrera* are two last names, as customary in Spain) was born in Barcelona on September 11th 1978.

Now an associate professor at the École des Mines de Nantes (EMN) in France, Jordi holds an INRIA Research Chair and leads the joint EMN/INRIA/CNRS research team [AtlanMod](#) (for “Atlantic Modeling”).

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POSITIONS HOLD

01/2010 – present *INRIA Research Chair and Associate Professor at the École des Mines de Nantes.*

Leader of the [AtlanMod](#) joint research team (École des Mines de Nantes, Inria and CNRS) since July 2010.

5/2008 – 12/2009 *Post-doctoral fellow at the University of Toronto.*

Member of the Software Engineering Group in the department of computer science

4/2004 – 12/2009 *Senior lecturer at the Open University of Catalonia.*

Coordinator of the software engineering area in the Computer Science Degree.
Coordinator of the software engineering postgraduate programme.

9/2002 – 6/2004 *Associate lecturer at the Caixa d'Estalvis de Terrassa Business College.*

9/2000-2/2002 *Associate lecturer at the Mataró School of Engineering.*

EDUCATION

09/2012 French Habilitation (HdR - Habilitation à diriger des recherches, "accreditation to supervise research"). Dissertation: "MDE 2.0 : Pragmatical formal model verification and other challenges"

5/2008 – 12/2009 Post-doctoral fellow at the University of Toronto, Software Engineering Group.

11/2006 Ph.D in Computer Science (European Mention) from the Technical University of Catalonia (Software program, LSI Department). Dissertation: "Incremental Integrity Checking in UML/OCL Conceptual Schemas". Advisor: Dr. Ernest Teniente

01/2006- 05/2006 Visiting researcher at Politecnico di Milano (Italy) where I collaborated with the group of Piero Fraternali in the Web Engineering area

07/2002 Degree in Informatics Engineering. Technical University of Catalonia

02/1999 Technical degree in Technical Engineering in Management Computing (Mataró School of Engineering)

RESEARCH RESULTS

My research falls into the broad area of software engineering, specially promoting the rigorous use of software models and engineering principles in all software engineering tasks, from development to reverse engineering to maintenance and interoperability. See my research statement for more details on my main research lines.

SUMMARY TABLE OF RESEARCH PUBLICATIONS

The following table summarizes my list of published research results so far (teaching-related publications are listed later on).

In column *Total*, each cell indicates the number of peer-reviewed international publications of that type. Research reports are not included. Posters, demos and short papers in conferences are counted as workshop publications (i.e. only full-length papers published in a conference are counted as conference papers). The *National* cell is the total number of national conferences, workshops and journals published.

Column *Q1 (journals) / < 25% (conf)* indicates (1) for journals, how many of the journals have been published in an indexed journal with an impact factor in the first quartile of its category (according to the Journal Citation Reports) and (2) for conferences, how many of the conference publications have been published in a conference with an acceptance rate below 25%. This column is not considered relevant for national or workshop publications.

Similarly, *Q2 (journals) / <50% (conf)* indicates the journals in the second quartile and conference publications with an acceptance rate between 25% and 50%.

Finally, column *Top 20 (h5-index)* shows how many journal and conferences publications have been published in one of the Top 20 publications for the Software Systems, Computer Security or Information Systems categories according to Google scholar and based on its h5-index.

Type of Publication	Total	Q1 (journals) / < 25% (conf)	Q2 (journals) / <50% (conf)	Top 20 (h5-index)
Journal	19	6	7	11
Book	1			
Book Chapter	2			
Conference	54	23	31	9
Workshop	30			
National	9			
TOTAL	115			

FULL LIST OF PUBLICATIONS

In what follows we list only the journal publications¹. A full list of publications can be found in the Appendix A. An (incomplete) list of publications can also be accessed online thanks to DBLP:

<http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/c/Cabot:Jordi.html>

JOURNAL PUBLICATIONS

1. Jordi Cabot, Robert Clarisó, Daniel Riera: On the verification of UML/OCL Class Diagrams using Constraint Programming. *Journal of Systems and Software*, 2014 (to appear), DOI: <http://dx.doi.org/10.1016/j.jss.2014.03.023>
2. Hugo Brunelière, Jordi Cabot, Grégoire Dupé, Frédéric Madiot: MoDisco: a Model Driven Reverse Engineering Framework. *Information and Software Technology*, 2014, to appear, DOI: <http://dx.doi.org/10.1016/j.infsof.2014.04.007>
3. Carlos Alberto González Pérez, Jordi Cabot: Formal Verification of Static Software Models in MDE: A Systematic Review. *Information and Software Technology*, 2014, to appear, DOI: <http://dx.doi.org/10.1016/j.infsof.2014.03.003>
4. Joaquín García-Alfaro, Frédéric Cuppens, Nora Cuppens-Boulahia, Salvador Martínez Perez, Jordi Cabot: Management of stateful firewall misconfiguration. *Computers & Security* 39: 64-85 (2013)
5. David Ameller, Claudia P. Ayala, Jordi Cabot, Xavier Franch: Non-functional Requirements in Architectural Decision Making. *IEEE Software* 30(2): 61-67 (2013)
6. Philip Langer, Konrad Wieland, Manuel Wimmer, Jordi Cabot: EMF Profiles: A Lightweight Extension Approach for EMF Models. *Journal of Object Technology* 11(1): 1-29 (2012)
7. Javier Luis Cánovas Izquierdo, Frédéric Jouault, Jordi Cabot, Jesús García Molina: API2MoL: Automating the building of bridges between APIs and Model-Driven Engineering. *Information & Software Technology* 54(3): 257-273 (2012)
8. Manuel Wimmer, Salvador Martínez Perez, Frédéric Jouault, Jordi Cabot: A Catalogue of Refactorings for Model-to-Model Transformations. *Journal of Object Technology* 11(2): 2: 1-40 (2012)
9. Frank Buschmann, David Ameller, Claudia P. Ayala, Jordi Cabot, Xavier Franch: Architecture Quality Revisited. *IEEE Software* 29(4): 22-24 (2012)
10. Manoli Albert, Jordi Cabot, Cristina Gómez, Vicente Pelechano. Generating operation specifications from UML class diagrams: A model transformation approach. *Data & Knowledge Engineering*, 70(4), pp 365-389 (2011)
11. Jordi Cabot, Robert Clarisó, Esther Guerra, Juan de Lara: A UML/OCL Framework for the Analysis of Graph Transformation Rules. *Software and Systems Modeling*. 9(3): 335-357 (2010)
12. Jordi Cabot, Raquel Pau, Ruth Raventós: From UML/OCL to SBVR Specifications: a Challenging Transformation. *Information Systems Elsevier Journal* 35(4): 417-440 (2010)
13. Jordi Cabot, Cristina Gómez: Evaluating the Consistency between Navigation and Data Models for Web Applications. *International Journal of Information System Modeling and Design*. 1(3): 68-85 (2010)

¹ In publications with authors listed in alphabetical order, equal contribution of all authors should be assumed.

14. Jordi Cabot, Robert Clarisó, Esther Guerra, Juan de Lara: Verification and Validation of Declarative Model-to-Model Transformations Through Invariants. *Journal of Systems and Software* 83(2): 283-302 (2010)
15. Manoli Albert, Jordi Cabot, Cristina Gómez, Vicente Pelechano: Automatic Generation of Basic Behavior Schemas from UML Class Diagrams. *Software and Systems Modeling* 9(1): 47-67 (2010)
16. Jordi Cabot, Greg Wilson: Tools for Teams: A Survey of Web-Based Software Project Portals. *Dr. Dobb's Journal*. Available online: <http://www.ddj.com/architect/220301068> (2009)
17. Jordi Cabot, Ernest Teniente: Incremental Integrity Checking of UML/OCL Conceptual Schemas. *Journal of Systems and Software*. 82(9): 1459-1478 (2009) available online (<http://dx.doi.org/10.1016/j.jss.2009.03.009>)
18. Jordi Cabot, Ernest Teniente: Transformation Techniques for OCL Constraints. *Science of Computer Programming*, 68(3), 179-195 (2007)
19. Jordi Cabot, Ruth Raventós: Conceptual Modelling Patterns for Roles. *Journal on Data Semantics V*, pp. 158-184 (2006)

OTHER PERSONAL RESEARCH METRICS

Total number of citations and h-index and i10-index (according to Google Scholar)

	All	Since 2009
Citations	1675	1515
h-index	19	18
i10-index	46	37

Number of different co-authors of my published papers (according to DBLP): 94

TEAM RESULTS

All the previous tables and lists take into account only the publications I have personally co-authored. I believe it is also relevant to summarize the research results of the AtlanMod team as a whole since I became the team leader in 2010.

The global results of the AtlanMod achieved under my supervision are available in the official team website at INRIA under "Activity Reports". Current link is: [http://www.inria.fr/equipes/atlanmod/\(section\)/activity](http://www.inria.fr/equipes/atlanmod/(section)/activity)

A summary of the team publications during this period can be seen in the following table (row *Others* includes short papers, poster, workshop publications and national publications).

	2010	2011	2012	2013	01-04/2014
Journals	3	5	6	8	5
Int. Conferences	11	9	8	11	6
Others (peer-reviewed)	7	9	10	10	1
TOTAL	21	23	24	29	12

ANIMATION OF THE SCIENTIFIC COMMUNITY

SUPERVISION OF PhD STUDENTS

CURRENT

2014 - present. Michel Albonico. Co-directed with Gerson Sunyé. Elasticity of testing techniques for cloud applications.

2013 – present. Amine Benelallam. Co-directed with Massimo Tisi and Gerson Sunyé. Thesis topic: Scalability for model-driven engineering techniques

2011 – present. Carlos González. Thesis topic: Efficient Formal model verification.

2011 – present. Salvador Martínez. Co-directed with Frédéric Cuppens. Thesis topic: Reengineering of security policies using model-based techniques.

PAST

2011 - 2013. Valerio Cosentino. Co-directed with Patrick Albert (IBM). Thesis topic: Extraction and refactoring of Business Logic from Legacy Applications.

2008 - 2013: Elena Planas. Co-directed with Cristina Gómez. Thesis topic: Verification of the executability of UML behavioural specifications.

PARTICIPATION IN RESEARCH COMMITTEES

- Reviewer for French National Research Projects (ANR) – 2013
- Reviewer for Spanish CICYT Research Projects – 2012, 2011, 2010, 2009 and 2008 Editions
- Reviewer for the National Dutch Projects Call – 2012 and 2009
- Reviewer for National UK Projects: 2011
- Reviewer for National Argentinian Projects: 2011
- Reviewer for Israel Science Foundation (ISF) – 2010 and 2009
- Reviewer for Spanish "Torres Quevedo" Research Projects: 2009

ORGANISATION OF CONFERENCES AND WORKSHOPS

I've been honored to serve as PC-chair (or PC Co-chair) for the top conferences in my subarea. In particular, the *International Conference on Model Transformation* (ICMT) in 2011, together with Eelco Visser; the *European Conf. on Modeling Foundations and Applications* (ECMFA) in 2014 and the *International Conference Model Driven Engineering Languages and Systems* (MoDELS, most important conference on software modeling) next year (2015)

- Other roles in international conferences:
 - Social Media Chair (together with Dimitris Kolovos) of MoDELS 2014

- Posters and Demo Chair (together with Michael Nebeling) of ICWE 2014
- Tutorials Chair at the MoDELS conference 2013
- Publicity Chair of the ER'08 conference

- Workshop organization:
 - Co-organizer of CloudMDE, Int. Workshop on Model-Driven Engineering on and for the Cloud. Editions 2012 and 2014
 - Co-organizer of the International Workshop on OCL and Textual Modelling. Editions from 2008 to 2013
 - Co-organizer of the MELO 2011 - Model-Driven Engineering, Logic and Optimization: friends or foes? Workshop. Co-located with ECMFA 2011
 - National workshops and conferences: Co-organizer of the Workshop on Model Driven Development, MDA and Applications (DSDM): 2010, 2008 and 2007 editions
 - PhD Workshop Co-Chair for the ER'08 conference
 - Co-organizer of the first Doctoral Symposium in the UML conference series (UML 2004)

ASSOCIATE EDITOR FOR THE FOLLOWING INTERNATIONAL JOURNALS

- Journal of Object Technology 2012 - now
- Software and Systems Modeling 2013- now
- International Journal of Information System Modeling and Design 2011-2013

REVIEWER FOR THE FOLLOWING INTERNATIONAL JOURNALS

- Reviewer of the IEEE Software
- Reviewer of IET Software
- Reviewer of the IEEE Transactions on Software Engineering Journal
- Reviewer of the Transactions of the Society for Modeling and Simulation International
- Reviewer of the Journal of Systems and Software
- Reviewer of the Information and Software Technology Journal
- Reviewer of the Software and Systems Modeling Journal
- Reviewer of the Data and Knowledge Engineering Journal
- Reviewer of the Science of Computer Programming journal
- Reviewer of the Journal of Web Engineering journal
- Reviewer of the International Journal of Software and Informatics
- Reviewer of the Transactions on Aspect-Oriented Software Development journal
- Reviewer of the Transactions on Systems, Man, and Cybernetics Journal
- Reviewer of the Computers & Security Journal
- Reviewer of the Journal of Computer Science Education

STEERING COMMITTEE MEMBER

- International Conference on Model Transformation

PC/PB MEMBER IN THE FOLLOWING INTERNATIONAL CONFERENCES

Next to each conference/workshop I indicate all editions in which I've served in the PC (Program committee) or PB (Program Board). Only international conferences are listed.

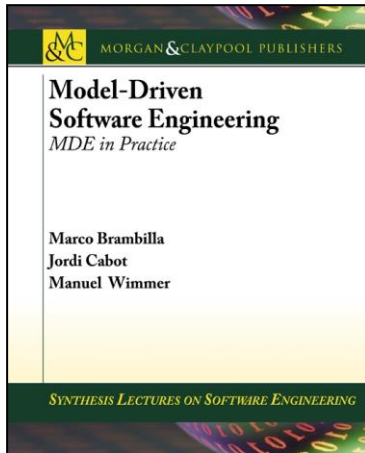
- Int. Conf. on Automated Software Engineering (ASE): 2014 (PB)
- Int. Conf. on Advanced Information Systems Engineering (CAiSE): 2014, 2013, 2012
- World Wide Web Conference : 2013, 2012, 2011,2010
- Int. Conf. on Model Driven Engineering Languages and Systems (MoDELS): 2014,2013, 2012,2011,2010
- International Conference on Conceptual Modeling: 2013, 2012
- European Conference on Modelling Foundations and Applications :2013, 2012,2011,2010
- International Conference on Web Engineering: 2014, 2013, 2012, 2011, 2010, 2009 edition
- Int. Conf. on Software Language Engineering: 2012,2011,2010
- IEEE International Conference on Engineering of Complex Computer Systems : 2011,2010
- Model Transformation Conference: 2014, 2013, 2012, 2010, 2009 and 2008 editions
- Tool Transformation Contest: 2011,2010
- Int. Conf. on Web Information Systems and Technologies (WEBIST): 2010
- RuleML Conference: 2011, 2010, 2009 editions
- The 12th IEEE International EDOC Conference (EDOC 2008)

DISSEMINATION AND TECHNOLOGY TRANSFER

I believe dissemination and technology transfer of our research is a key responsibility of any researcher.

As part of my dissemination activities I'd like to highlight

1. Publication of an introductory book on model-driven engineering, which has become the book of reference for teaching model-driven engineering and is now used in more 50 universities and educational institutions around the world.



Model-Driven Software Engineering in Practice
by Marco Brambilla, Jordi Cabot, Manuel Wimmer
Morgan & Claypool, 2012
<http://mdse-book.com/>

2. The creation and administration of the Modeling Languages portal where I write about news, opinions, tools,... related to the world of software modeling and development that I think can be of interest for the general public. On average, the portal receives more than 600 visits every day and is often cited in papers by researchers in this field.



<http://modeling-languages.com>

3. Guest editor for a special issue of the [Novatica](#) Spanish Journal (Novatica is the journal of the association ATI, the most important association for computer science professionals in Spain) presenting model-driven engineering to computer professionals. To appear later this year.

As part of our technology transfer efforts, AtlanMod has published a number of research tools. Some of them have been “industrialized” with the help of some partner companies in order to make them usable (better UI, documentation, support,...) and accessible to any software engineer.

Two of them (MoDisco and ATL) have become standard de facto in their domains.

For details of our industrialization strategy see: *Industrialization of Research Tools: the ATL Case. 3rd International Workshop on Academic Software Development Tools and Techniques co-located with ASE 2010 by Brunelière, Cabot, Jouault, Tisi and Bézivin.*

A selection of the tools developed by the team in the last years is:



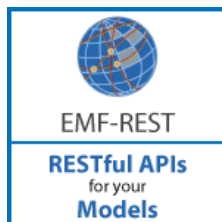
MoDisco: Modernization of legacy systems.
Website: <http://www.eclipse.org/MoDisco/>



ATL: A model-to-model transformation technology
Website: <https://www.eclipse.org/atl/>



EMFtoCSP: Formal verification of UML and EMF models using constraint programming techniques
Website: <https://code.google.com/a/eclipselabs.org/p/emftocsp/>



EMF-Rest: Generation of RESTful API for any model so they can be accessed and modified in an online environment.
Website: <http://emf-rest.com/>



Neo4EMF: Scalable storage for software models using graph databases.
Website: <http://neo4emf.com>

RESEACH PROJECTS / FUNDING

This section lists the funding (research projects and grants) I have received either as individual researcher or as leader of the AtlanMod Research team. For the latter, I only list the projects where I directly took care of the project preparation and proposal (even if later, for some of the projects, the day-to-day work on the project was delegated to other members of the team).

The summary table only takes into account funding received during the last 5 years (i.e. after 2010). Column *Budget-global* show the total budget of the Project while *Budget-team/me* indicates the amount corresponding to the funding for the team/myself and *Man-month* how that amount translated into new job hirings² for the team (i.e. we do not add here the man-month of permanent team members working on the project).

Type of Project	Number	Budget (global)	Budget (team/me)	Man-month (team)
European	3	11.976.227	1.118.389	109
National	3	8.145.655	1.411.622	156
Regional	1	1.281.640	196.200	18
Technology transfer	4	128.000	128.000	62
Personal	3	270.000	204.000	60
TOTAL	14	21.801.522	3.058.211	405 (33.75
		EUR	EUR	years)

In what follows we give more details of these projects. Appendix C provides a complementary list of projects in which I participated but was not involved in their creation.

EUROPEAN

2013- 2016 MONDO. FP7 STREP.

Full Title: Scalable Modelling and Model Management on the Cloud.

Budget: 3732184 euros

Team budget: 452776 euros

Coordinator: The Open Group

Summary: As Model Driven Engineering is increasingly applied to larger and more complex systems, the current generation of modelling and model management technologies are being pushed to their limits in terms of capacity and efficiency. The aim of MONDO is to tackle the increasingly important challenge of scalability in MDE.

2013- 2015 AutoMobile. European Research For SMEs Call.

Full Title: Automated Mobile App Development.

Budget: 1290338 euros

Team budget: 172184 euros

Coordinator: WebRatio

Summary: The AutoMobile project aims at designing and bringing to the market innovative methodologies, software tools, and vertical applications for the cost-effective implementation of crossplatform, multi-device mobile applications

² The relationship between the two values depends on several factors like the profile of the people hired

2012 – 2015 ARTIST. *European FP7 IP Project*

Full Title: Advanced Software-based service provisioning and migration of legacy software

Budget: 6953705 euros

Team budget: 493429 euros

Coordinator: ATOS Spain

Summary: The modernization and adaptation of legacy applications to cloud environments is a great challenge for all involved stakeholders, not only from the technical perspective, but also at the business level. The purpose of ARTIST is to propose and develop a novel model-driven approach for the migration of legacy applications in modern cloud environments covering all aspects of the process.

2010 – 2012 (*Teaching project*) *Exchanging knowledge, techniques and experiences around Model Driven Engineering education. Lifelong learning - Leonardo da Vinci.*

Project aimed at the development of a content management system for model driven engineering that helps any lecturer interested in teaching MDE. Funding for traveling and short-stays only.

NATIONAL

2013 – 2016 MoNoGe. *FUI French Project*

Full Title: Atelier de Modélisation de Nouvelle Génération.

Budget: 3737620 euros

Team budget: 510501 euros

Coordinator: SoftTeam

Summary: The MoNoGe project has for objective to bring innovative solutions allowing to ensure the agility of the models and modeling tools. The term agility is here referring to the properties of interoperability, extensibility and evolution of models.

2012 – 2014 ITM-Factory. *FUI French Project*

Full Title: Information Technology Modernisation Factory.

Budget: 3490000 euros

Team budget: 647000 euros

Coordinator: MIA-Software

Summary: Application maintenance represents about 80 per cent of the computer market (at the French and global level). The main goal of the ITM Factory is to propose a software modernization framework, including: (i) an integrated workbench for software modernization engineers and (ii) a set of ready to use modernization cartridges.

2012 – 2014 TEAP. *FUI French Project*

Full Title: TOGAF Enterprise Architecture Platform

Budget: 918035 euros

Team budget: 254121 euros

Coordinator: Obeo

Summary: The project aims to build an Enterprise Architecture platform based on the TOGAF9 standard. It will provide tool support for the reverse engineering of the enterprise's legacy systems and its modernization.

REGIONAL

2012 – 2014 *StreamMaster. FUI French Project*

Budget: 918035 euros

Team budget: 254121 euros

Coordinator: Data Syscom

Summary: The purpose of the StreamMaster project is creating a universal software solution for the smart management of document streams, providing an added value over all the chain.

TECHNOLOGY TRANSFER

2011-2013 *Technology transfer action with IBM*

Funding of Valerio Cosentino's PhD to investigate the extraction of business rules from COBOL legacy code. Valerio was directly hired and paid by IBM during the PhD.

2011 – 2012 *INRIA Technology transfer action with MIA Software*

One year funding of a research engineer to improve the scalability of model-driven engineering techniques.

2011 – 2012 *Technology transfer action with WebRatio*

Consulting for WebRatio to help them prepare the definition of their proposal for Interaction Flow Modeling Language (now a modeling standard).

2010 – 2011 *Technology transfer action with BNP Paribas*

One year funding of a research engineer to explore the benefits of model-driven engineering to facilitate the interoperability of information system and development teams in large organizations.

PERSONAL GRANTS

2011-2014 *AtlanMod New Team Proposal. Pays de la Loire. Call : Soutenir et accompagner la constitution de nouvelles équipes sur des thématiques émergentes.*

This grant was funded by the Pays de la Loire Regional Council "new research teams" program. This funding covers a PhD Student and two-years of a postdoc to help me settle down and start new research lines after my arrival at Nantes. Total funding: 196.000 euros

2008-2009. *Catalan Government grant ("Beatriu de Pinós").*

Two-year grant to cover the expenses of my post-doctoral stay at the University of Toronto.

2006. *Catalan Government travel grant*

Travel grant to cover the expenses of my pre-doctoral research stay at the Politecnico di Milano.

TEACHING ACTIVITIES

I led the first edition of the *MDE Diploma* ([http://www.emn.fr/z-info/atlanmod/index.php/The MDE Diploma](http://www.emn.fr/z-info/atlanmod/index.php/The_MDE_Diploma)), an International post-graduate specialization Diploma in Model Driven Engineering (MDE) offered at the École des Mines de Nantes. The goal of the MDE Diploma is to train engineers to manage complex projects in various IT fields with the latest cutting-edge modeling technologies. It comprises one semester of academic coursework plus a six-month internship with a company or a lab to become an internal expert able to solve industrial issues with MDE solutions. To best of my knowledge, the MDE diploma was the first full postgraduate program on MDE in the world.

Before leading the MDE diploma I had been in charge of several courses in CS degrees both in traditional universities and in virtual ones (where there are no face-to-face classes, the students connect to a virtual campus and all communication takes place online). The courses I have taught cover most of the spectrum in the software part of CS degrees and included programming, database and software engineering courses.

I have always been interested in exploring on how to improve our teaching techniques, what are the best contents and syllabus for the courses and how these courses could be adapted to different teaching scenarios. As a result of this interest I have collaborated on several books (as editor or author) and teaching publications. See Appendix B for a full list of teaching-related publications

INDUSTRIAL EXPERIENCE

Beyond the collaborations with industrial partners listed in the research projects section, I've also been involved with several other companies during my career.

2013 – now. Company: *Nelio Software S.L.*

Role: Co-Founder. Company offering conversion optimization services (based on statistical techniques like A/B testing) to improve the web presence of online businesses. Specialized on WordPress websites.

2009 – 2013. Company: *Software Engineering Services s.c.p.*

Role: Founder. Company offering model-based content and services to the software engineering community

2001. Company: *Strategy Consultants*

Role: Occasional consultant in software projects developed with the RAD Delphi technology.

2000. Company: *Asistencia en gestión tributaria.*

Role: Analyst/programmer for the web-based tax management system commercialized by the company.

1998 - 1999 Company: *Mataró School of Engineering.*

Role: Programmer, part of the team that developed the internal information system for the university.

APPENDIX A. FULL LIST OF RESEARCH PUBLICATIONS³

JOURNAL PUBLICATIONS

1. Jordi Cabot, Robert Clarisó, Daniel Riera: On the verification of UML/OCL Class Diagrams using Constraint Programming. *Journal of Systems and Software*, 2014 (to appear), DOI: <http://dx.doi.org/10.1016/j.jss.2014.03.023>
2. Hugo Brunelière, Jordi Cabot, Grégoire Dupé, Frédéric Madiot: MoDisco: a Model Driven Reverse Engineering Framework. *Information and Software Technology*, 2014, to appear, DOI: <http://dx.doi.org/10.1016/j.infsof.2014.04.007>
3. Carlos Alberto González Pérez, Jordi Cabot: Formal Verification of Static Software Models in MDE: A Systematic Review. *Information and Software Technology*, 2014, to appear, DOI: <http://dx.doi.org/10.1016/j.infsof.2014.03.003>
4. Joaquín García-Alfaro, Frédéric Cuppens, Nora Cuppens-Boulahia, Salvador Martínez Perez, Jordi Cabot: Management of stateful firewall misconfiguration. *Computers & Security* 39: 64-85 (2013)
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6. Philip Langer, Konrad Wieland, Manuel Wimmer, Jordi Cabot: EMF Profiles: A Lightweight Extension Approach for EMF Models. *Journal of Object Technology* 11(1): 1-29 (2012)
7. Javier Luis Cánovas Izquierdo, Frédéric Jouault, Jordi Cabot, Jesús García Molina: API2MoL: Automating the building of bridges between APIs and Model-Driven Engineering. *Information & Software Technology* 54(3): 257-273 (2012)
8. Manuel Wimmer, Salvador Martínez Perez, Frédéric Jouault, Jordi Cabot: A Catalogue of Refactorings for Model-to-Model Transformations. *Journal of Object Technology* 11(2): 2: 1-40 (2012)
9. Frank Buschmann, David Ameller, Claudia P. Ayala, Jordi Cabot, Xavier Franch: Architecture Quality Revisited. *IEEE Software* 29(4): 22-24 (2012)
10. Manoli Albert, Jordi Cabot, Cristina Gómez, Vicente Pelechano. Generating operation specifications from UML class diagrams: A model transformation approach. *Data & Knowledge Engineering*, 70(4), pp 365-389 (2011)
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13. Jordi Cabot, Cristina Gómez: Evaluating the Consistency between Navigation and Data Models for Web Applications. *International Journal of Information System Modeling and Design*. 1(3): 68-85 (2010)
14. Jordi Cabot, Robert Clarisó, Esther Guerra, Juan de Lara: Verification and Validation of Declarative Model-to-Model Transformations Through Invariants. *Journal of Systems and Software* 83(2): 283-302 (2010)
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NATIONAL CONFERENCES AND JOURNALS

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3. Jordi Cabot, Cristina Gómez, Elena Planas, M.Elena Rodríguez: Reverse Engineering of OO constructs in Object-Relational Database Schemas. JISBD 2008.
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5. Marco Brambilla, Jordi Cabot, Sara Comai: Generating Extended Conceptual Schemas from Business Process Models. 15th Italian Symposium on Advanced Database Systems (SEBD'07), pp. 282-289.
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8. Ruth Raventós, Jordi Cabot: A Conceptual Modelling Pattern for Roles. JISBD 2003, pp. 421-430
9. Jordi Cabot, Rodolfo García, Zipora Almaleh, Paloma Cáceres, Esperanza Marcos, M^a José Vázquez: UML en el diseño de bases de datos relacionales. Novática, 150, pp. 62-66, 2001

APPENDIX B. FULL LIST OF TEACHING PUBLICATIONS

PARTICIPATION AT SUMMER SCHOOLS

1. SFM-12 (International School on Formal Methods) MDE Summer School. June 2012

COLLABORATIONS IN TEACHING BOOKS

1. Software engineering of distributed and component-based systems. Jordi Cabot (coordinator). Josep Maria Camps, Jordi Ceballos, Francisco Durán, Nathalie Moreno, José Raúl Romero, Antonio Vallecillo (authors), UOC Publishing Company, ISBN 978-84-690-4496-4. Catalan and Spanish versions available, 2006
2. Object-oriented software engineering Enginyeria del Programari Orientat a l'Objecte. Jordi Cabot, Isabel Guitart (coordinators). Jordi Fernández, Jordi Pradel, José Antonio Raya (authors), UOC Publishing Company, ISBN 84-9788-311-X. Catalan and Spanish versions available, 2005
3. Scanning the Computer Science (introductory computer science book). Joan Arnedo Moreno, Jordi Cabot Sagrera, Isabel Guitart Hormigo, Francisco Javier Noguera Otero, Rafael Macau Nadal, Joan Antoni Pastor Collado, Daniel Riera Terrén, Jordi Tubella Murgadas, José Ramón Rodríguez Bermúdez, M. Elena Rodríguez González (authors) M. Jesús Marco Galindo, Josep M. Marco-Simó, Josep Prieto Blázquez, Ramón Segret Sala (eds.) UOC Publishing Company, Catalan and Spanish versions available, 2010

INTERNATIONAL TEACHING PUBLICATONS

1. Jordi Cabot, Massimo Tisi. The MDE Diploma: First International Postgraduate Specialization in Model-Driven Engineering. Journal of Computer Science Education, to appear
2. Jordi Cabot, Francisco Durán, Nathalie Moreno, Raúl Romero, Antonio Vallecillo: From Programming to Modeling: our Experience with a Distributed Software Engineering Course. 30th Int. Conf. on Software Engineering (Education Track)
3. Jordi Cabot, Francisco Durán, Nathalie Moreno, Raúl Romero, Antonio Vallecillo: Shifting the Focus from Programming to Modeling in a Distributed Software Engineering Course. Educators Symposium at the MODELS'07 conference.
4. M. Elena Rodríguez, Montse Serra, Jordi Cabot, Isabel Guitart: Evolution of Teacher Roles and Figures in E-learning Environments. 6th IEEE International Conference on Advanced Learning Technologies (ICALT 2006)

NATIONAL TEACHING PUBLICATONS

1. Jordi Cabot. Ingeniería del Software. Capítulo de libro. Título: “Escaneando la Informática”. Editorial UOC. M. Jesús Marco Galindo, Josep M. Marco-Simó, Josep Prieto Blázquez, Ramón Segret Sala (eds.)
2. Isabel Guitart, M. Elena Rodríguez, Jordi Cabot, Montse Serra: Selecting the right evaluation model: a case study for Software Engineering Subjects (Title in Spanish: “Elección del modelo de evaluación: caso práctico para asignaturas de ingeniería del

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3. Santi Caballé, Jordi Cabot, Jordi Conesa, Robert Clarisó, Elena Planas, Daniel Riera : Cuckoo – a web platform for the verification of UML models (Title in Spanish: “CUCKOO – una plataforma web para la verificaci3n de modelos UML). XV Jornadas de Enseñanza Universitària de la Informàtica (JENUI 2009).

APPENDIX C. PARTICIPATION IN OTHER RESEARCH PROJECTS

Complementary list of projects to those mentioned in the “Research Projects / Funding” section. I had an active participation in all these projects but I was not the person representing our team in the proposal / creation of the project.

European

2009 – 2012 *OPEES* European Project

OPEES is an industrial Consortium for the definition, elaboration and deployment of an Open Platform for the Engineering of Embedded Systems. The partners are Industrial (Airbus, EADS Astrium, Continental Automotive, STMicroelectronics, Schneider Electric, FT R&D, participation from clusters, Thales), Research and University (EA LIST, INRIA, IFP, LAAS, ENSEEIHT, Verimag) and Vendors and service providers (OBEO, CS, ...). The OPEES initiative is common to three competitiveness clusters: Aerospace Valley, Systematic and Minalogic. The mission of OPEES is to build a community able to ensure long-term availability of innovative engineering technologies in the domain of dependable / critical software-intensive embedded systems. Its main objectives are to secure the industrial strategy, improve their competitiveness and develop the European software industry. Our schema of open source industrial collaboration (e.g. around ATL) will be tested and developed as a team contribution to this project

2009 – 2012 *CESAR* European Project

CESAR stands for Cost-efficient methods and processes for safety relevant embedded systems and is an ARTEMIS European funded project. CESAR pursues a multi-domain approach integrating large enterprises, suppliers, SME's and vendors of cross sectoral domains and cooperating with leading research organizations and innovative SME's. Our work in CESAR consists of providing model virtualization techniques to provide a unified view of the system by mixing different partial models, each one focusing on a given aspect of the system.

2007-2008. *Spanish-Italian Integrated action.*

PI: Ernest Teniente. Funded by the Spanish Ministry of Science and Technology and the Italian Government.

National

2010 – 2012 *Galaxy ARPEGE* French Project

This ARPEGE project focuses on the problem of model driven collaborative development of complex systems. The project partners are Airbus, IRIT, LIP6, AKKA and Softeam. Galaxy aims at defining an open and flexible architecture particularly designed to be scalable. One of the key points is related to the

fragmentation and distributiveness of huge models, their relationship and synchronization. Our work in this project is related to the Megamodeling concept and the languages required to manipulate and query these large sets of models.

2008 – 2011 *IDM++*.

This is a RNTL project started in January 2008 for three years with ILOG/IBM, MIA-Software and CEA as partners. The goal is to advance the state of the art in MDE. To this end we are working on model weaving, global model management, and model configuration topics. Experimentation on synergies between MDE and constraint programming (for example to check the correctness of Eclipse configuration problems) are also being researched as part of the this project. PI:Patrick Albert

2009 – 2013. *CICYT Project. TIN2008-00444/TIN*

Spanish national project. Design and construction of a Conceptual Modeling Assistant. PI: Antoni Olivé. Funded by the Spanish Ministry of Science and Technology.

2008 – 2010. *National Spanish Network of Excellence on Model-driven Engineering.*

Network to facilitate the knowledge exchange around MDE. PI: Antonio Vallecillo. PI of the local UOC node: Jordi Cabot. Funded by the Spanish Ministry of Science and Technology.

2006 - 2008. *CICYT Project. TIN2005-06053.*

Spanish national Project. “Construcción de un entorno integrado para el desarrollo centrado en el esquema conceptual de sistemas de información”. Funded by the Spanish Ministry of Science and Technology.

2002 – 2005. *CICYT Project. TIC2002-00744.* Spanish national Project.

Desarrollo de un entorno avanzado de ayuda a la modelización conceptual. Funded by the Spanish Ministry of Science and Technology.