

Jordi Cabot

Curriculum Vitae
Barcelona, January 2020

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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.

He is currently an ICREA Research Professor at Interdisciplinary Internet Institute (IN3), a research center of the Open University of Catalonia (UOC) in Barcelona where he leads the SOM research team (for “**S**ystems, **S**oftware and **M**odels”).

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POSITIONS HOLD

05/2015 – present *ICREA Research Professor at Internet Interdisciplinary Institute (IN3-UOC)*

01/2010 – 04/2015 *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 Computer 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 systems and software engineering, especially promoting the rigorous use of software models in all software tasks while keeping an eye on the most unpredictable element in any project: the people involved in it. Current research topics include pragmatic formal verification techniques, analysis of open source communities, open data exploitation and the role AI can play in software development (and vice versa).

RESEARCH PUBLICATIONS

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

Type of Publication	Total
Journal	52
Book	2
Book Chapter	4
Conference	108
Workshop	56
TOTAL	222

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://dblp.uni-trier.de/pers/hd/c/Cabot:Jordi.html>

OTHER PERSONAL RESEARCH METRICS

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

	All
Citations	6354
h-index	38
i10-index	121

Number of different co-authors of my published papers (according to DBLP): 203

AWARDS & HONOURS

- Designated as one of the Top researchers in Software Engineering (“Consolidated” category) according to the study [A bibliometric assessment of software engineering scholars and institutions \(2010–2017\)](#)
- Software Engineering in Society Paper Award for our paper The Role of Foundations in Open Source Projects by Javier Luis Canovas Izquierdo and Jordi Cabot. ICSE SEIS 2018
- Elected Chair of the Steering Committee of the IEEE / ACM International Conference on Model Driven Engineering Languages and Systems (MODELS) conference
- Our paper A feature-based survey of model view approaches by Hugo Bruneliere, Erik Burger, Jordi Cabot and Manuel Wimmer (Journal on Software and Systems Modeling (SoSyM), doi: 10.1007/s10270-017-0622-9, Springer. 2017) has received a best paper award from the SoSym Journal
- Gwendal Daniel, co-supervised by Jordi Cabot and Gerson Sunyé, received the following awards for his PhD Thesis: "Efficient Persistence, Query, and Transformation of Large Models"
 - GDR-GPL Thesis Prize 2017 - Best thesis award from the GDR-GPL community. <http://gdr-gpl.cnrs.fr/node/336>
 - INFORSID Thesis Prize 2017 - Best thesis award from the INFORSID community. <http://inforsid.fr/Nantes2018/laureatprixthese2018.php>
- Best paper award at Models 2016 (ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems) for our paper PrefetchML: a Framework for Prefetching and Caching Models by Gwendal Daniel, Gerson Sunyé and Jordi Cabot
- Awards for Outstanding Committee Service received at the ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems

ANIMATION OF THE SCIENTIFIC COMMUNITY

SUPERVISION OF PhD STUDENTS

CURRENT

2019 - present. Ivan David Alfonso Díaz. Co-directed with Kelly Garcés. Thesis topic: Self-adaptation of IoT Architectures.

2019 – present. Jorge Perianez. Co-directed with Loli Burgueño and Roberto Rodríguez. Thesis topic: AI applied to Model-Driven Engineering

PAST

2015 - 2019. Hamza Ed-douibi. Co-directed with Javier Cánovas. Thesis topic: Modeling and testing web APIs.

2013 – 2018. Hugo Brunelière. Thesis topic: Generic model-based approaches for Software Reverse Engineering and Comprehension

2014 – 2017. Gwendal Daniel. Co-directed with Gerson Sunyé. Thesis topic: Scalable NoSQL backends for model persistence

2013 – 2016 Amine Benelallam. Co-directed with Massimo Tisi and Gerson Sunyé
Thesis topic: Scalability for model-driven engineering techniques

2011 – 2014. Carlos González. Thesis topic: Efficient Formal model verification.

2011 – 2014. Salvador Martínez. Co-directed with Frédéric Cuppens. Thesis topic:
Reengineering of security policies using model-based techniques.

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.

INVITED TALKS

I have given guest talks and seminars at several universities and institutions such as the Chalmers University, University of Bordeaux, Politecnico di Milano, University of Toronto, Technical University of Valencia, University of Murcia, Technical University of Catalonia, University of La Rochelle, Basque Country University, University of Luxembourg, University of Rennes, CEA...

I have also been personally invited to give talks at the following conferences:

- RuleML+RR 2017: International Joint Conference on Rules and Reasoning. London, 2017
- 9es Journées Nationales du GDR GPL 2017, Montpellier, 2017
- Ingeniería del software dirigida por modelos: versión apta para incrédulos. 2ndo foro de ingeniería del software. Bogotá. 2016
- Wanna see your OSS project succeed? Nurture the community. Ericsson Modeling Days, Stockholm. 2016
- (Panelist) Conceptual Modeling and Big Data – ER conference. Gifu 2016
- Who needs languages when you have patterns?. 1st International Workshop on Patterns in Model Engineering. 2015
- (Panelist) Modeling in Software Engineering (ICSE workshop) 2012
- MDD - Desarrollo de software dirigido por modelos que funciona (de verdad!). SGVirtual. 2011
- MDE=Model Driven Everything. 2nd Spanish Eclipse day. Valencia (Spain), 2009
- Learning Software Engineering in a Virtual University: the UOC case in the Ier Congreso Internacional de Tecnologías de la Información y Comunicaciones (Regional South American Conference) 2005

PARTICIPATION IN RESEARCH COMMITTEES

- Member of the Evaluation Commission for Spanish Research Projects 2019

- Expert Panel member for the Fonds National de la Recherche Luxembourg: CORE 2016-2019
- Reviewer for the Belgium Fund for Scientific Research – FNRS – 2019
- Panel member for the evaluation of Juan de la Cierva Spanish research grants: 2017
- Reviewer for the Fonds National de la Recherche Luxembourg: CORE 2015 and INTER 2015 and 2017 programs
- Reviewer for the Austrian Science Fund - 2016
- Reviewer for French National Research Projects (ANR) – 2013
- Reviewer for Spanish CICYT Research Projects – 2017,2016, 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

STEERING COMMITTEE

- Chair of the SC for the International Conference on Model Driven Engineering Languages and Systems since 2018 (member since 2015)
- ETAPS (European Joint Conferences on Theory and Practice of Software) (member since 2019)
- International Conference on Model Transformation (member since 2011)
- Advisory board International Symposium on Model-driven Approaches for Simulation Engineering (since 2016)
- Member of the Papyrus Industrial Consortium 2016-2019

ORGANISATION OF CONFERENCES AND WORKSHOPS

- Organization of international conferences:
 - PC Chair (together with Heike Wehrheim), FASE 2020 (Int. Conf on Fundamental Approaches to Software Engineering).
 - PC Chair (together with Roberto de Virgilio, Int. Conf on Web Engineering 2017
 - PC Track Chair (together with Marjan Mernik), Quatic 2016
 - Sponsor Chair, 19 Int. Conf. on Model Driven Engineering Languages and Systems (Models) 2016
 - PC Chair (together with Alexander Egyed) of the 18 Int. Conf. on Model Driven Engineering Languages and Systems (Models) 2015
 - PC Chair (together with Julia Rubin) of the European Conf. on Modeling Foundations and Applications (ECMFA) 2014
 - PC Chair (together with Eelco Visser) of the Int. Conf. on Model Transformation 2011
 - 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 the 1st SecureMDE workshop (International Workshop on Security for (and by) Model-Driven Engineering)
 - Co-organizer of the 1st Grand Challenges in MDE workshop
 - Co-organizer of CloudMDE, Int. Workshop on Model-Driven Engineering on and for the Cloud. Editions 2012, 2014 and 2015
 - Co-organizer of the International Workshop on OCL and Textual Modelling. Editions from 2008 to 2013, 2016, 2017
 - Co-organizer of the MELO - Model-Driven Engineering, Logic and Optimization: friends or foes? Workshop. Co-located with ECMFA 2011 and STAF 2016
 - National workshops and conferences: Co-organizer of the Workshop on Model Driven Development, MDA and Applications (DSDM): 2015, 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

- Software and Systems Modeling 2013- now
- IEEE Software - Initiatives Team, 2015- now
- Computer Languages, Systems & Structures, 2015-2018
- Journal of Object Technology 2012 - 2018
- International Journal of Information System Modeling and Design 2011-2013

REVIEWER FOR THE FOLLOWING INTERNATIONAL JOURNALS

Reviewer for all major journals in the software engineering area, including:

- IEEE Transactions on Software Engineering Journal,
- ACM Transactions on Software Engineering and Methodology,
- Journal of Systems and Software,
- Information and Software Technology Journal,
- Software and Systems Modeling Journal,
- Data and Knowledge Engineering Journal,
- Science of Computer Programming.
- Transactions on Aspect-Oriented Software Development journal
- Transactions on Systems, Man, and Cybernetics Journal
- Computers & Security Journal
- Journal of Computer Science Education
- Web Engineering journal
- Transactions of the Society for Modeling and Simulation
- Journal of Software: Evolution and Process

PC MEMBERSHIP IN INTERNATIONAL CONFERENCES

I'm regularly a PC member in many conferences in software engineering, model-driven engineering and web engineering topics. Only international conferences are listed (workshops and national conferences are therefore omitted).

- International Conference on Software Engineering: 2017 (PC), 2018 (PB)
- Fundamental Approaches to Software Engineering (FASE) 2017, 2019
- International Conference on Software Analysis, Evolution and Reengineering (SANER): 2018
- International Conference on Web Engineering (ICWE): 2009-2016, 2018-2019
- 13th International Conference on Open Source Systems 2017
- Int. Conf. on Automated Software Engineering (ASE): 2015, 2014 (PB)
- Int. Conf. on Advanced Information Systems Engineering (CAiSE): 2016,2015,2014, 2013, 2012
- Int. Conf. on Model Driven Engineering Languages and Systems (MoDELS): 2016-2019 (PB), 2014,2013, 2012,2011,2010
- International Symposium on Open Collaboration (OpenSym): 2017,2016
- European Conference on Modelling Foundations and Applications (ECMFA) :2018, 2016, 2015,2014,2013, 2012,2011,2010
- Int. Conf. on Software Language Engineering (SLE): 2017, 2016, 2015,2012,2011,2010
- IEEE International Conference on Engineering of Complex Computer Systems : 2011,2010
- Model Transformation Conference: 2008-2017
- International Conference on Conceptual Modeling (ER): 2013, 2012
- World Wide Web Conference : 2013, 2012, 2011,2010
- 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)

PARICIPATION IN PhD JURIES

- Over 30 in a large number of European countries (5 in 2019, 3 in 2018, 3 in 2017, 7 in 2016, 6 in 2015, 1 in 2014, 1 in 2013, 1 in 2012, 1 in 2011, 3 in 2010, 2 in 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 over 100 universities and educational institutions around the world.

Model-Driven Software Engineering in Practice

by Marco Brambilla, Jordi Cabot, Manuel Wimmer
2nd Edition, Morgan & Claypool, 2017
<https://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 1300 visits every day and is often cited in papers by researchers in this field.

<https://modeling-languages.com>

3. The creation of a more general Software Engineering informative website for the Spanish-speaking community with close to 1000 daily visits.

<https://ingenieriadesoftware.es/>

RESEACH PROJECTS / FUNDING

This section lists the funding (research projects and grants) I have received either as individual researcher or as leader of the SOM team (2015-now) or AtlanMod team (2010-2014 period).

The following summary table shows in the 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.

Type of Project	Number	Budget (global)	Budget (team/me)
European	5	27762921	1118389
National	7	8295853	1691726
Regional	8	2691350	1773315
Technology transfer	12	624417	474417
TOTAL	32	39374541	5057847

In what follows we give more details of these projects.

EUROPEAN

2017- 2020 MegaMart2 ECSEL-JU

Full Title: MegaModelling at Runtime - scalable model-based framework for continuous development and runtime validation of complex systems.

Budget: 15 786 694 euros

Requested Team budget: 246 867 euros

Coordinator: Mälardalen University

Summary: The overall approach of MegaM@Rt is to scale up the use of model-based techniques by offering proper methods and related tooling interacting between both design time and runtime, as well as to validate the designed and developed approach in concrete industrial cases involving complex systems. Thanks to the model-based method, different systems will be able to communicate through the entire development chain, and moreover it will be possible for systems in operation to feed back the collected data for continued development

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

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

2017-2019 Red temática en MDE (TIN2016-81836-REDT)

Program: Redes de excelencia.

Budget: 15000 euros

Coordinator: UOC

2017 – 2020 ODA: Open Data for All .

Program: Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad

Budget: 63800 euros

Summary: The ODA project pursues an API-based infrastructure to empower citizens to benefit from the growing number of open data sources available online (but under a very heterogeneous set of formats, quality, availability,...).

2016 – 2018 Abel Gómez. Juan de la Cierva Postdoc Senior Grant.

Program: Juan de la Cierva Incorporación 2015

Funding: 58000

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

2019-2021 LIS (Learning Intelligent Systems). Funding provided by UOCs eHealth Center. Total funding: 675270

2015-2020 SOM Team – Internal funding. Funding provided by the UOC as one of the IN3 official research teams for traveling, equipment,... Total funding: 270000

2015-2020 SOM ICREA Team Proposal. UOC funding to kickstart and maintain the new SOM team at IN3 in the context of an ICREA-UOC collaboration. Funding covers 3 years of a postdoc and 3 years of a phd and travel money. Total funding: 310000

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

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.

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.

TECHNOLOGY TRANSFER

2018-2020 Modelia – Bringing Artificial Intelligence to the Modeling world

CEA is funding 24 months of a postdoc (Loli Burgueño) and a PhD (Takwa Kochbati) to work in a new generation of modeling and development tools that integrate powerful AI techniques.

2018-2019 Chatbot Modeling

Berger-Levrault is paying an initial study on the application of modeling techniques to define and deploy generic chatbots

2018 From APIs to UML.

Small contract for a proof-of-concept focusing on the reverse engineering of APIs in the IoT domain

2017-2018 Security in modeling

CEA is funding 18 months of a postdoc (Salvador Martínez) to work in a collaboration with the SOM team on the topic of secure modeling processes.

2017 *Performance Modeling for the masses*

L&S Computer Technology Inc funded a study on the use of standard modeling technologies in the field of performance modeling

2016-2017 *Application of the use of game design elements in non-game contexts to engage more external developers and end-users on Papyrus*

3 months of postdoc funding to apply gamification techniques to Papyrus

2016 *Sysml for ECAD*

Studying the feasibility of extending the SysML language with ECAD concepts.

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.

TEACHING ACTIVITIES

I led the first edition of 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 – 2015. 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 PUBLICATIONS¹

JOURNAL PUBLICATIONS

1. Palazzi, Maria J.; Cabot, Jordi; Canovas Izquierdo, Javier Luis; Sole-Ribalta, Albert; Borge-Holthoefer, Javier 2019, 'Online division of labour: emergent structures in Open Source Software', *Scientific Reports*, 9, 13890.
2. Elena Planas, Jordi Cabot: How are UML class diagrams built in practice? A usability study of two UML tools: Magicdraw and Papyrus. *Computer Standards & Interfaces* 67 (2020)
3. Loli Burgueño, Jordi Cabot, Sébastien Gérard: The Future of Model Transformation Languages: An Open Community Discussion. *Journal of Object Technology* 18(3): 7:1-11 (2019)
4. Andrey Sadovykh, Wasif Afzal, Dragos Truscan, Pierluigi Pierini, Hugo Brunelière, Alessandra Bagnato, Abel Gómez, Jordi Cabot, Orlando Avila-García: On a tool-supported model-based approach for building architectures and roadmaps: The project experience. *Microprocessors and Microsystems - Embedded Hardware Design* 71 (2019)
5. Jordi Cabot, Rafael Capilla, Carlos Carrillo, Henry Muccini, Birgit Penzenstadler: Measuring Systems and Architectures: A Sustainability Perspective. *IEEE Software* 36(3): 98-100 (2019)
6. Gwendal Daniel, Gerson Sunyé, Jordi Cabot: Advanced prefetching and caching of models with PrefetchML. *Software and Systems Modeling* 18(3): 1773-1794 (2019)
7. Hugo Brunelière, Erik Burger, Jordi Cabot, Manuel Wimmer: A feature-based survey of model view approaches. *Software and Systems Modeling* 18(3): 1931-1952 (2019)
8. Robert Clarisó, Carlos A. González, Jordi Cabot: Smart Bound Selection for the Verification of UML/OCL Class Diagrams. *IEEE Trans. Software Eng.* 45(4): 412-426 (2019)
9. Salvador Martínez, Sebastien Gerard, Jordi Cabot: On Watermarking for Collaborative Model-Driven Engineering. *IEEE Access* 6: 29715-29728(2018)
10. Vasco Amaral, Jordi Cabot, Miguel Goulão: Special issue on quality in Model-Driven Engineering. *Computer Languages, Systems & Structures* 54: 472-473 (2018)
11. Jordi Cabot, Javier Luis Cánovas Izquierdo, Valerio Cosentino: Are CS conferences (too) closed communities? *Commun. ACM* 61(10): 32-34 (2018)
12. Amine Benelallam, Abel Gómez, Massimo Tisi, Jordi Cabot: Distributing relational model transformation on MapReduce. *Journal of Systems and Software* 142: 1-20 (2018)
13. Wasif Afzal, Hugo Brunelière, Davide Di Ruscio, Andrey Sadovykh, Silvia Mazzini, Eric Cariou, Dragos Truscan, Jordi Cabot, Abel Gómez, Jesús Gorroñoigoitia, Luigi Pomante, Pavel Smrz: The MegaM@Rt2 ECSEL project: MegaModelling at Runtime - Scalable model-based framework for continuous development and runtime validation of complex systems. *Microprocessors and Microsystems - Embedded Hardware Design* 61: 86-95 (2018)
14. Valerio Cosentino, Javier Luis Cánovas Izquierdo, Jordi Cabot: Gitana: A software project inspector. *Sci. Comput. Program.* 153: 30-33 (2018)

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

15. Jordi Cabot: WordPress: A Content Management System to Democratize Publishing. *IEEE Software* 35(3): 89-92 (2018)
16. Jordi Cabot, Alexander Egyed: Introduction to the special issue on the 18th international conference on model driven engineering languages and systems (MODELS'15). *Software and System Modeling* 17(3): 715-716 (2018)
17. Valerio Cosentino, Javier Luis Cánovas Izquierdo, Jordi Cabot: A Systematic Mapping Study of Software Development With GitHub. *IEEE Access* 5: 7173-7192 (2017)
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3. Robert Clarisó, Jordi Cabot: Applying graph kernels to model-driven engineering problems. MASES@ASE 2018: 1-5
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5. Hamza Ed-Douibi, Javier Luis Cánovas Izquierdo, Francis Bordeleau, Jordi Cabot: WAPIml: Towards a Modeling Infrastructure for Web APIs. MODELS Companion 2019: 748-752

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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*, 21(4), 389-402, 2011
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

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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).