

*Jordi Cabot*

*Curriculum Vitae*  
*Luxembourg, October 2023*

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## PERSONAL DETAILS

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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 11<sup>th</sup> 1978.

He is currently an [FNR Pearl Chair](#) and head of the Software Engineering RDI Unit at the ITIS department of the [Luxembourg Institute of Science and Technology](#) (LIST). He is also an Affiliate Professor in CS at the [University of Luxembourg](#).

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## POSITIONS HOLD

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**03/2023 – present** *FNR Pearl Chair and Head of the Software Engineering RDI Unit at the Luxembourg Institute of Science and Technology*

**07/2023 – present** *Affiliate Professor at University of Luxembourg*

**08/2023 – present** *Technical Board Member – Big Data Value Association*

**05/2015 – 02/2023** *ICREA Research Professor at Internet Interdisciplinary Institute (IN3-UOC)*  
Leader of the [SOM Research Lab](#).

**01/2021 – 12/2022** *Visiting Professor (Professor II) at the Western Norway University of Applied Sciences*

**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

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**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

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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 core model-driven engineering and low-code approaches, 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 (internationally) published research results so far (teaching-related publications are listed later on).

Type of Publication	Total
Journal	83
Book	2
Book Chapter	5
Conference	125
Workshop	71
<b>TOTAL</b>	<b>286</b>

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
<a href="#">Citations</a>	10999
<a href="#">h-index</a>	50
<a href="#">i10-index</a>	188

Number of different co-authors of my published papers (according to DBLP): 290

## AWARDS & HONOURS

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- 10-years Most Influential Paper Award at the Requirements Engineering conference 2022 for the paper “How do software architects consider non-functional requirements: An exploratory study” by David Ameller, Claudia Ayala, Jordi Cabot, and Xavier Franch from RE’2012.
- Winner of the Jury award to the best startup of the [SpinUOC 2021](#)
- Best Demo award for our paper “Papyrus for Gamers, Let’s play modeling”. Models 2020.
- Best Posters/Tool Demo award for our paper “An OpenAPI-based Testing Framework to Monitor Non-Functional Properties of REST APIs”. ICWE 2020
- 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”. 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” (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”
- 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

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### SUPERVISION OF PhD STUDENTS

## CURRENT

2023 – present. Jonathan Silva. Co-directed with Qin Ma and Erik Proper. Thesis topic: AI-based assisted conceptual modeling.

2023 – present. Sergio Morales. Co-directed with Robert Clarisó. Thesis topic: Automatic testing of ethical biases in Large Language Models

2020 – present. Joan Giner. Co-directed with Abel Gómez. Thesis topic: New architectures for model-driven development.

2020 – present. Juan Antonio Gómez Gutiérrez. Co-directed with Robert Clarisó. Thesis topic: Model debugging

## PAST

2019 – 2022. Ivan David Alfonso Díaz. Co-directed with Kelly Garcés and Harold Castor. Thesis title: IoT@run-time: a model-based approach to support deployment and self-adaptations in IoT systems

2015 - 2019. Hamza Ed-douibi. Co-directed with Javier Cánovas. Thesis title: Model-driven Round-trip Engineering of REST APIs.

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

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

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

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

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

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

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

## INVITED TALKS

I have given guest talks and seminars at several universities and institutions such as Chalmers University, HVL, 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, Universidad Pontificia Católica del Ecuador, CEA...

I have also given the following invited and keynote talks:

- ICSOFT 2023. Low Modeling of (Smart) Software. Rome (Italy) 2023
- EDOC 2022. Smart Modeling for Smart Software. Bolzano (Italy) 2022
- SPCL/Modevar 2021. How to sustain a tool building community-driven effort. Experiences from the modeling trenches. Virtual
- SERP4IoT 2021. Model-driven engineering for Industrial IoT architectures. Virtual.
- BotSE 2020. Lessons Learned from building a commercial bot development platform. Virtual.
- SiriusCon 2020: Future Trends in Modeling. Online.
- EMMSAD 2019. Modeling and AI: friends or foes?. Rome. 2019
- 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
- Who needs languages when you have patterns?. 1st International Workshop on Patterns in Model Engineering. 2015
- 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 2019-2020 and 2023
- Expert Panel member for the Fonds National de la Recherche Luxembourg: CORE 2016-2020
- Reviewer for the Swiss National Science Foundation: 2023
- 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 – 2020, 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 2018-2020 (SC member since 2015)
- ETAPS (European Joint Conferences on Theory and Practice of Software) (2019-2020)
- FASE (Fundamental Approaches to Software Engineering) (member since 2019)
- MDE Intelligence workshop series
- International Conference on Model Transformation (2011-2019)

- 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:
  - Co-PC Chair, FASE 2020 (Int. Conf on Fundamental Approaches to Software Engineering).
  - Co-PC Chair, Int. Conf on Web Engineering 2017
  - PC Track Chair, Quatic 2016
  - Sponsor Chair, 19 Int. Conf. on Model Driven Engineering Languages and Systems (Models) 2016
  - Co-PC Chair of the 18 Int. Conf. on Model Driven Engineering Languages and Systems (Models) 2015
  - Co-PC Chair 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 two editions of the SecureMDE workshop (International Workshop on Security for (and by) Model-Driven Engineering). 2018 and 2020
  - Co-organizer of the 1<sup>st</sup> Grand Challenges in MDE workshop. 2017
  - 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 1st Doctoral Symposium in the UML conference series (2004)

## **ASSOCIATE EDITOR FOR THE FOLLOWING INT. JOURNALS**

- Software and Systems Modeling 2013- now
- IEEE Software - Initiatives Team, 2015- 2023
- BISE (Business & Information Systems Engineering) 2021 - 2023
- Computer Languages, Systems & Structures, 2015-2018
- Journal of Object Technology 2012 - 2018
- International Journal of Information System Modeling and Design 2011-2013

## **REVIEWER AND PC MEMBERSHIP IN INTERNATIONAL VENUES**



Reviewer for all major journals in the software engineering area (IEEE TSE, TOSEM, JSS, Sosym, IST, DKE, ...). I'm also regularly a PC member in many conferences in software engineering, model-driven engineering and web engineering topics, such as FASE, Models, CAiSE, ICWE ,...

## PARTICIPATION IN PhD JURIES

Over 35 in many European countries

## DISSEMINATION ACTIVITIES

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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. 2<sup>nd</sup> 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 around 500 visits every day and is often cited in papers by researchers in this field. URL: <https://modeling-languages.com>
3. The creation of a more general Software Engineering informative website for the Spanish-speaking community with close to 500 daily visits. URL: <https://ingenieriadesoftware.es/>

## RESEARCH PROJECTS / FUNDING AND TECH TRANSFER

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This section lists the funding (research and tech transfer projects and grants) I have received either as individual researcher or as leader of the LIST Software Engineering Unit (2023-now), the SOM team (2015-2022) or AtlanMod team (2010-2014 period) only listing projects where I was instrumental in acquiring the project.

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	10	90127049	2321398
National	12	12769063	6503561
Regional	10	4363600	2107315
Technology transfer	13	734417	584417

<b>TOTAL</b>	<b>45</b>	<b>107994129</b>	<b>11516691</b>
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In what follows we give more details about the most important projects.

## **EUROPEAN**

### **2023 – 2025. Climaborough European Union & CINEA**

Full Title: Climaborough: Bridging the gap between design and implementation of urban innovations, particularly in the face of climatic change.

Budget: 11037882 euros. Team budget: 664375 euros

### **2022 – 2024. European Patent Office**

Full Title: Smart Learning and Assessment System (SLASys): Conceiving an innovative digital training system for Intellectual Property

Budget: 149009

### **2021 – 2024. AIDoART ECSEL-JU**

Full Title: AI-augmented automation for efficient DevOps, a model-based framework for continuous development At RunTime in cyber-physical systems.

Budget: 24 565 448 euros. Team budget: 402937 euros

### **2021 – 2024. TRANSACT ECSEL-JU**

Full Title: Transform safety-critical cyber-physical systems into distributed solutions for end-users and partners.

Budget: 26 544 589 euros. Team budget: 274 312 euros

### **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. Team budget: 246 867 euros

### **2013- 2016 MONDO. FP7 STREP.**

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

Budget: 3732184 euros. Team budget: 452776 euros

### **2013- 2015 AutoMobile. European Research For SMEs Call.**

Full Title: Automated Mobile App Development.

Budget: 1290338 euros. Team budget: 172184 euros

### **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

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

Funding for traveling and short-stays only.

## **NATIONAL**

### **2023 – 2028 BESSER: Building Better Smart Software Faster**

Program: FNR PEARL

Budget: 4102000 euros

**2022 – 2024 BOSS:** *Bots para Interactuar con Datos Abiertos – Interfaces conversacionales para facilitar el acceso a los datos públicos*

Program: Programa Estatal de Investigación, Proyectos estratégicos orientados a la transición ecológica y a la transición digital

Budget: 116000 euros

**2021 – 2024 BODI:** *Bots para Interactuar con Datos Abiertos – Interfaces conversacionales para facilitar el acceso a los datos públicos*

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

Budget: 105340 euros

**2021 – 2024 Low-code development of smart software (LOCOS)**

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

Budget: 56870 euros

**2020 – 2022 Lola Burgueño. Juan de la Cierva Postdoc Senior Grant.**

Program: Juan de la Cierva 2019

Funding: 93000 euros

**2017 – 2020 ODA:** *Open Data for All. An API-based infrastructure to empower citizens to benefit from the growing number of open data sources available online*

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

Budget: 63800 euros

**2017-2019 Coordinators of the Red temática en MDE (TIN2016-81836-REDT)**

Program: Redes de excelencia.

Budget: 15000 euros

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

Program: Juan de la Cierva Incorporación 2015

Funding: 58000 euros

**2013 – 2016 MoNoGe. FUI French Project**

Full Title: Atelier de Modélisation de Nouvelle Génération.

Budget: 3737620 euros. Team budget: 510501 euros

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

Full Title: Information Technology Modernisation Factory.

Budget: 3490000 euros. Team budget: 647000 euros

**2012 – 2014 TEAP. FUI French Project**

Full Title: TOGAF Enterprise Architecture Platform

Budget: 918035 euros. Team budget: 254121 euros

## **REGIONAL**

**2020-2022 Xatkit.** Innovators Program from the Catalan Government for value building and knowledge transfer projects. Total funding: 84000 euros.

**2020 – open.** *SOM Staff Scientist.* UOC is co-funding a staff scientist position for the team.  
Total accumulated funding: 16000

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

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

**2015-2019** *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**

**2020-2022** *Tracea – Traceability for complex cyber-physical systems*

CEA is funding 24 months of a postdoc (Edouard Batot) to work on an end-to-end traceability system for complex systems that may include AI-based components.

**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 paid for 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

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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

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

**2021 – 2022.** Company: Xatkit (Chatbot Creation Services S.L.)

Role: Co-Founder. Xatkit is the first spin-off of the team. It offers a variety of consulting and chatbot hosting services built on top of the open source Xatkit bot development platform we have built at ICRE-UOC. Xatkit has been granted an innovators award from the Catalan Government to fund its development.

**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 Consultors*

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 PUBLICATIONS

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### JOURNAL PUBLICATIONS

1. Javier Luis Cánovas Izquierdo, Jordi Cabot: For a More Transparent Governance of Open Source. *Commun. ACM* 66(8): 32-34 (2023)
2. Iván Alfonso, Kelly Garcés, Harold Castro, Jordi Cabot: A model-based infrastructure for the specification and runtime execution of self-adaptive IoT architectures. *Computing* 105(9): 1883-1906 (2023)
3. Iván Alfonso, Abel Gómez, Silvia Doñate, Kelly Garcés, Harold Castro, Jordi Cabot: A model-based framework for IoT systems in wastewater treatment plants. *J. Object Technol.* 22(2): 1-15 (2023)
4. Jordi Cabot, Robert Clarisó: Low Code for Smart Software Development. *IEEE Softw.* 40(1): 89-93 (2023)
5. Maxime Savary-Leblanc, Lola Burgueño, Jordi Cabot, Xavier Le Pallec, Sébastien Gérard: Software assistants in software engineering: A systematic mapping study. *Softw. Pract. Exp.* 53(3): 856-892 (2023)
6. Lola Burgueño, Paula Muñoz, Robert Clarisó, Jordi Cabot, Sébastien Gérard, Antonio Vallecillo: Dealing with Belief Uncertainty in Domain Models. *ACM Trans. Softw. Eng. Methodol.* 32(2): 31:1-31:34 (2023)
7. Joan Giner-Miguel, Abel Gómez, Jordi Cabot: A domain-specific language for describing machine learning datasets. *J. Comput. Lang.* 76: 101209 (2023)
8. Javier Luis Cánovas Izquierdo, Jordi Cabot: On the analysis of non-coding roles in open source development. *Empir. Softw. Eng.* 27(1): 18 (2022)
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## **APPENDIX B. FULL LIST OF TEACHING PUBLICATIONS**

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### **PARTICIPATION AT SUMMER SCHOOLS**

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

## COLLABORATIONS IN TEACHING BOOKS

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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

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2. Jordi Cabot, Francisco Durán, Nathalie Moreno, Raúl Romero, Antonio Vallecillo: From Programming to Modeling: our Experience with a Distributed Software Engineering Course. 30<sup>th</sup> Int. Conf. on Software Engineering (Education Track)
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