

Vasco Sousa (Ph.D.)

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Traits

Reserved

Likes to help others
solve problems

Languages

Portuguese (●●●)

English (●●●)

French (●●●)

Spanish (●●○)

Japanese (●○○)

German (●○○)

Programming Languages

Ant, AspectJ, ATL,
Batch, C, C++, CDuce,
CSS, Drools, EMF,
Epsilon, Godot, Python,
Java, JS, Kermeta,
Make, MDE, ml, PHP,
Prolog, Shellscript,
SQL, UML

Tools

AToMPM, aSprite,
Eclipse, Excel,
Illustrator, Latex,
Pandoc, Powerpoint,
Photoshop, VirtualBox,
Visual Paradigm,
VMWare, VSCode

Experience

2021–

Researcher

Contributing to the AToMPM collaborative modeling projects.
Proceedings Co-Chair for the conference MODELS 2022.

Member of the Program Committee of the Hands-on Workshop on Collaborative Modeling, co-located with the conference MODELS 2021.

2015–2020

Doctoral Student

University of Montréal

Part of the GEODES research team. Produced research on HCI specification in Software Modeling Environments.

2016–2017

Teaching Assistant in Software Engineering

University of Montréal

Lab assistance, work-group management, assignment development and evaluation for the under-graduate course on Software Engineering.

2010, 2011, 2013, 2017

Organization staff and workshop instructor

DSM-TP

Curriculum development and event support. Instructed on DSL editor development and Model Transformation workshops.

2016

Consulting

Fresh Legacy

Support and expertise on introduction of MDE processes into legacy software migration pipeline.

2014

Research Engineer

LASSY - University of Luxembourg

Implemented and helped improve model decomposition techniques, developed as an Eclipse plug-in.

2010–2012

Research Engineer

LASSY - University of Luxembourg

Developed an Aspect Model Weaver tool, as an Eclipse plug-in. Specified partial architecture of the tool. Meta-modelled Aspect Model and Join Point Model specifications. Minor management of task scheduling and assignment.

2008–2010

Research Engineer

DI – FCT – UNL

Specialized support in Domain Specific Languages, Model Transformation and tool prototyping, of research group Master Students and other associated projects. Projects supported include: HALL(a complex control system specification DSL), an adaptability add-on DSL to HALL, IStar editor implementation, modularKAOS editor implementation, DSLTrans(a model transformation DSL), IStar to KAOS and KAOS to IStar transformations, IStar and KAOS aggregate super language, UbiLang (a DSL for ubiquitous multimedia systems), VisualAore(a software engineering DSL), Pattern Tool (a software engineering DSL), BEI (BPM Editor for IPDMS).

2009

Journalist

Canela e Hortelã

Journalistic coverage of the animation festival Mostra 2009, for the cultural online publication Canela e Hortelã.

2009 –

Freelance Artist

Poster for the play "Grenouilles au sirop", part of the 22nd open theater edition of the Lion D'Or in Montreal.

Logo for the Systems Modeling and Simulation Research group.

Current events satiric cartoonist for the cultural online publication Canela e Hortelã.

Qualifications

2015–2020	Ph.D. in Software Engineering.	University of Montréal
2016–2018	Certification in Advanced Anatomy, Drawing the Human Form, Analytical Sketching and Drawing From Life.	Syn Studio, Montreal
2007–2009	Ms.C. in Computer Science Engineering.	Universidade Nova de Lisboa
1998–2007	Licentiate in Computer Science Engineering	Universidade Nova de Lisboa
2006	Certification in Drawing from life	Sociedade Nacional de Belas-Artes, Lisboa

Publications

2021	Adapting modeling environments to domain specific interactions Thèses et mémoires électroniques de l'Université de Montréal [17728], 2021	Vasco Sousa
2019	Operationalizing the Integration of User Interaction Specifications in the Synthesis of Modeling Editors 12th ACM SIGPLAN International Conference on Software Language Engineering (SLE '19), 2019	Vasco Sousa, Eugene Syriani, Khady Fall
2018	Structure and Behavior Preserving Statecharts Refinements Journal Science of Computer Programming - 2018, 2018	Eugene Syriani, Vasco Sousa, Levi Lúcio
2017	Feedback on How MDE Tools Are Used Prior to Academic Collaboration Symposium On Applied Computing – SAC 2017, 2017	Vasco Sousa, Eugene Syriani, Martin Paquin
2017	Adapting Modeling Environments to Domain Specific Interactions Proceedings of the ACM SIGCHI Symposium on Engineering Interactive Computing Systems - EICS '17, 2017	Vasco Sousa
2017	Towards Collaborative Modeling Using a Concern-Driven Version Control System COMMitMDE at Model Driven Engineering Languages and Systems - MoDELS 2017, 2017	Omar Alam, Vasco Sousa, Eugene Syriani
2015	An Expeditious Approach to Modeling IDE Interaction Design Multi Paradigm Modeling workshop at Model Driven Engineering Languages and Systems - MoDELS 2015, 2015	Vasco Sousa, Eugene Syriani
2011	Verifying Access Control in Statecharts Journal Electronic Communications of EASST, Volume 50 (Recent Advances in Multi-paradigm Modeling)	Levi Lucio, Qin Zhang, Vasco Sousa, Yves Le Traon
2010	DSLTrans: A Turing Incomplete Transformation Language 3rd International Conference on Software Languages Engineering - SLE 2010, 2010	Bruno Barroca, Levi Lúcio, Vasco Amaral, Roberto Félix, Vasco Sousa
2010	UbiLang: Towards a Domain Specific Modeling Language for Specification of Ubiquitous Games INForum-Simpósio de Informática 2010, 2010	Ricardo Guerreiro, André Rosa, Vasco Sousa, Vasco Amaral, Nuno Correia
2007	Automatically Generating Domain Specific VisualLanguage Editors for the Purpose of Deriving a Robust HEP Data Analysis Tool IEEE 2007 Nuclear Science Symposium and Medical Imaging Conference Conference	Vasco Sousa, Vasco Amaral, Bruno Barroca
2007	Towards a full implementation of a robust solution of a Domain Specific Visual Query Language DSVQL for HEP analysis CHEP2007 12th International Conference on Computing in High Energy and Nuclear Physics	Vasco Sousa, Vasco Amaral, Patricia Conde Muino