

# Vasco Sousa (Ph.D.)

Last Updated on 9th June 2022

## Contact

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linkedin/vascosousa

## 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.

2017–2018

### 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.

2016–2017

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

## Publications

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