

## Contact

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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, JavaScript,  
Kermeta, Make, MDE,  
ml, PHP, Prolog,  
Shellscript, SQL, UML

## Tools

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

## Experience

2021–

### Researcher

Contributing to the AToMPM collaborative modeling projects – *Python, JavaScript, Nightwatch, Selenium WebDriver*.

Proceedings Co-Chair for the conference MODELS 2022 – *Latex, Excel, artifact management*.

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 – *Epsilon, Java, Python, Javascript, ANT, Bash/Shell scripting, DSL (Domain Specific Languages), RETE Network, Graph Transformations, user studies and evaluation*.

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 – *Eclipse, ATL transformations, ECore*.

2016–2017

### Consulting

Fresh Legacy

Support and expertise on introduction of MDE processes into legacy software migration pipeline – *IBM RPG, Java, ATL transformations, XText, XPand, ECore, MDE*.

2014

### Research Engineer

LASSY - University of Luxembourg

Implemented and helped improve model decomposition techniques, developed as an Eclipse plug-in – *Eclipse plugin, Java, ECore, MDE*.

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 – *Eclipse plugin, Java, Kermeta, ECore, Epsilon, AspectJ, MDE*.

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 (BPMN Editor for IPDMS) – *Eclipse plugin and RCP, Java, ECore, ATL, DSL, MDE*.

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. Adapting modeling environments to domain specific interactions – <i>Epsilon, Java, Python, Javascript, ANT, Bash/Shell scripting, DSL (Domain Specific Languages), RETE Network, Graph Transformations, user studies and evaluation.</i>	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. <i>Eclipse plugin and RCP, Ecore, ATL, Graph Transformation, DSL, MDE.</i>	Universidade Nova de Lisboa
1998–2007	<b>Licentiate</b> in Computer Science Engineering <i>Medium scale C projects, cascading SQL queries, C/Java inter-operation.</i>	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
2018	<b>Structure and Behavior Preserving Statecharts Refinements</b> Journal Science of Computer Programming - 2018, 2018 <i>State Charts Refinement, formal specification.</i>	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 <i>IBM RPG, User Evaluation, MDE, DSL.</i>	Vasco Sousa, Eugene Syriani, Martin Paquin
2011	<b>Verifying Access Control in Statecharts</b> Journal Electronic Communications of EASST, Volume 50 (Recent Advances in Multi-paradigm Modeling) <i>Petri-net, access control specification, formal specification, models checking.</i>	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 <i>Model Transformation, Formal specification, ATL, Prolog.</i>	Bruno Barroca, Levi Lúcio, Vasco Amaral, Roberto Félix, Vasco Sousa