# **SÉBASTIEN MOSSER**

### **BUSINESS ADDRESS**

DR. SÉBASTIEN MOSSER COMPUTING AND SOFTWARE DEPT. ITB 131 MCMASTER UNIVERSITY 1280 MAIN STREET WEST HAMILTON ON L8S 4K1

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Phone: +1 (905) 525-9140 x24671

### **EDUCATIONAL BACKGROUND**

### **Degrees and Diplomas**

2010	Ph.D., Computer Science & Software Engineering, <i>Université de Nice</i> , France
2007	Engineering Degree, École Polytechnique Universitaire de l'Université de Nice, France
2004	Diplôme d'Études Universitaires Générales, Université de Nice – Sophia Antipolis, France

### **Qualifications, Licensures and Certifications**

2023	Inclusive Excellence Leadership, Equity and Inclusion Office, McMaster Univ (ongoing)
2022	Instructional Skills Workshop, McPherson Institute, McMaster University
2022	Ethical Conduct for Research Involving Humans – TCPS 2, CIHR/SSHRC/NSERC, Canada
2022	McMaster University Ethics Tutorial, McMaster Ethic Board Committee, Canada
2021	Bias in Peer Review, CIHR/SSHRC/NSERC, Canada

# **Other Specialized Training**

2011 Postdoc, Software engineering, *Inria Lille-Nord Europe*, France

# **CURRENT STATUS AT MCMASTER**

01/2022 – ... **Associate Professor with tenure**, Faculty of Engineering, CAS department Executive member of **McMaster Centre for Software Certification** (McSCert, since 2022) Faculty member of **McMaster Institute for Research on Aging** (MIRA, since 2023)

# **PROFESSIONAL ORGANIZATIONS**

$06/23 - \dots$	P.Eng., Professional Engineers Ontario (PEO)
12/21 - 03/24	P.Eng., Ordre des Ingénieurs du Québec (OIQ). (License transferred, 05/23).
$01/21 - \dots$	Member, Société Informatique de France (Academic Society).

### **EMPLOYMENT HISTORY**

### Academic

$01/22 - \dots$	Associate Professor with tenure, Faculty of Engineering, CAS department, McMaster, Canada
06/21 - 12/22	Associate Professor with tenure, Faculty of Science, Université du Québec à Montréal, Canada
	(Administrative leave of absence from 01/22 to 12/22)
01/19 - 05/21	Associate Professor, tenure-track, Faculty of Science, Université du Québec à Montréal, Canada

09/13 - 12/18	Maître de conferences, tenured, Université Côte d'Azur, Nice, France
09/12 - 08/13	Maître de conferences, tenure track, Université Côte d'Azur, Nice, France
09/11 - 08/12	Research Scientist, SINTEF, Oslo, Norway
11/10 - 09/11	Postdoctoral fellow, Inria Lille – Nord Europe, Villeneuve d'Ascq, France
09/07 - 10/10	Ph.D. fellow, Université de Nice, Nice, France
09/07 - 10/10	Moniteur de l'enseignement supérieur, Université de Nice, Nice, France

# **SCHOLARLY AND PROFESSIONAL ACTIVITIES**

### **Editorial Boards**

01/22 - ... Journal of Object Technology (AITO).

# **Grant & Personnel Committees**

06/22	NSERC 1507 Discovery Grant Committee. Co-chair for software engineering
05/22	High Council for Evaluation of Research and Higher Education (HCÉRES, France). Expert.
10/22 - 05/23	CS-CAN Excellence in Teaching award. Committee member.
06/21 - 05/22	NSERC 1507 Discovery Grant Committee. Committee member
01/20 - 12/21	Fond de Recherche Québécois (FRQNT). PhD grant awards. Committee member.
01/19 - 12/20	NSERC USRA. Internal committee at UQAM. Committee member.

# **Executive Positions**

01/22	Working group on Model-Driven Engineering & Education, MDENet. Founding member.
01/16 - 12/18	Steering committee for hiring (CPRH), Université Côte d'Azur. Nominated member
01/08 - 12/10	Steering committee, Action IDM (CNRS, France). Student representative member
11/07 - 12/15	Steering Committee. <i>La Nuit de l'Info</i> (Univ. competition, ~50k€/y). <b>Founding member</b> .

# **Journal Referee**

Journal of Software and System Modelling (SoSyM, Springer).	27 reviews
Journal of Object Technology (JOT, AITO).	6 reviews
Transactions on Cloud Computing (TCC, IEEE).	2 reviews
Journal of Computer Languages (COLA, Elsevier).	2 reviews
Journal of Systems and Software (JSS, Elsevier).	2 reviews
Journal of the Internet of Things (IoT, IEEE).	1 review
Software Quality Journal (SQJ, Springer).	1 review
Empirical Software Engineering (ESE, Springer).	1 review

# **External Grant Reviews**

2023	Agence Nationale de la Recherche (ANR, France). Early Career Research Program (JCJC)
2020	Agence Nationale de la Recherche (ANR, France). Early Career Research Program (JCJC)
2020	Institut Mines-Telecom Atlantique (IMT, France). Research Centre creation committee.
2017	NSERC 1507 Discovery Grants. External Reviewer.
2011	Agence Nationale de la Recherche (ANR, France), Industrial Transfer Project.

# **Conference Organization Committees**

2023	26 <sup>th</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems
2022	(MODELS). Social Media & Publicity Chair. Västerås, Sweden École des Jeunes Chercheuses et Jeune Chercheurs en Programmation (EJCP, National summer
	school for Ph.D. students in soft. eng. & prog. languages). <i>Co-chair</i> . Virtual.
2022	25 <sup>th</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems
	(MODELS). Conference chair. Montréal, Canada
2021	École des Jeunes Chercheuses et Jeune Chercheurs en Programmation (EJCP, National summer
	school for Ph.D. students in soft. gng. & prog. languages). <i>Co-chair</i> . Virtual.
2020	23 <sup>rd</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems
	(MODELS). Virtualization chair and Student Volunteers chair. Virtual

2019	41 <sup>st</sup> ACM/IEEE International Conference on Software Engineering. <i>Accommodation chair</i> . Montréal, Canada.
2015	14 <sup>th</sup> ACM International Conference on MODULARITY. <i>Social Media chair</i> . Fort Collins, CO, USA.
2014	8th International Workshop on Variability Modelling of Software-intensive Systems (VaMoS). <i>Organization committee</i> . Nice, France.
2012	3 <sup>rd</sup> IEEE World Congress on SERVICES. Career development chair. Honolulu, Hawaii, USA.
2011	3ème journées nationales du GdR GPL (National conf.). Organization committee. Lille, France
Conference P	Program Committees
2023	26 <sup>th</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS). <i>Foundation track &amp; Doctoral Symposium mentor</i>
2022	25 <sup>th</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS). <i>Foundation track</i> .
2021	43 <sup>rd</sup> ACM/IEEE International Conference on Software Engineering (ICSE). <i>Artifact evaluation track</i> .
2021	24 <sup>th</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS). <i>Foundation track &amp; Educator Symposium track</i> .
2020	24 <sup>th</sup> ACM International Systems and Software Product Line Conference (SPLC). <i>Research track</i> .
2020	23 <sup>rd</sup> ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS). <i>Doctoral symposium track</i> .
2019	13 <sup>th</sup> IEEE International Conference on Research Challenges in Information Science (RCIS). <i>Doctoral Symposium track</i> .
2019	7 <sup>th</sup> International Conference on Model-Driven Engineering and Software Development (MODELSWARD). <i>Research track</i> .
2015 –	IEEE International Conference on Big Data (BigData). Research track.
2013 –	IEEE International Conference on Web Services (ICWS). Research track.
	TELE International Conference on web services (10 ws). Research track.
Workshop Or	rganization & Program Committees
Workshop Or 2023	rganization & Program Committees  1st Workshop on Model-based Systems Engineering (co-located with MODELS).
	ganization & Program Committees
2023	Ist Workshop on Model-based Systems Engineering (co-located with MODELS).  Steering committee
2023 2022 –	Ist Workshop on Model-based Systems Engineering (co-located with MODELS).  Steering committee  Model-driven Requirement Engineering Worksop (co-located with RE), PC member.  3rd International workshop on MDE for Smart IoT Systems (co-located with STAF).
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### **AREAS OF INTEREST**

#### Research

Software Engineering Separation of concerns Domain-specific languages Software design at large-scale

### **Teaching**

Distributed Systems

Software development & testing Software design and modelling

Software construction and maintenance.

### **HONOURS**

2022 Corinne Pulgar (MASc student under my supervision) won the **bronze medal** in the ACM Student

Research Competition at MODELS for her research work done in my group (out of 14 participants,

being the only master student competing).

2021 **Best reviewer award**. ACM/IEEE MODELS (24<sup>th</sup> edition)

2018 Best Paper award, 33rd ACM/SIGAPP Symposium on Applied Computing (SAC)

2015-2018 Prime d'Encadrement Doctoral et de Recherche (PEDR, National Council of Universities, France)

20k\$ salary bonus for excellence in research and doctoral supervision, evaluated nationally.

### **COURSES TAUGHT**

### **Undergraduate (at McMaster, since 2022)**

# **Program**

Year	Role/Title	Course	Term	Section	%	Enrolment	Duration	Additional
		Code/Title		(C01, L01, T01)	Taught			Comments
2024	Instructor	SE 2AA4	Winter	C01	100	170 (?)	1 term	_
2023	Instructor	SE/CS 3RA3	Fall	C01	100	280 (?)	1 term	Creation
2023	Instructor	SE 2AA4	Winter	C01	100	162	1 term	Creation
2022	Instructor	SE 3XB3	Fall	C01	100	121	1 term	Creation

• SE 2AA4: *Introduction to software Development* 

• SE/CS 3RA3: Software Requirements & Security Considerations

SE 3XB3: Software Engineering Practice and Experience: Binding Theory to Practice

# Graduate (at McMaster, since Jan 2022)

### **Program**

Year	Role/Title	Course Code/Title	Term	% Taught	Enrolment	Duration	Additional
							Comments
2023	Instructor	CAS 735	Fall	100	20 (?)	1 term	_
2022	Instructor	CAS 735	Fall	100	20	1 term	Creation

• CAS 735: (Micro-)Service Oriented Architectures

### CONTRIBUTIONS TO TEACHING PRACTICE

### Pedagogic Innovation and/or Development of Technology-enhanced Learning

**UQAM/INF5153 – Software Design.** To tackle the challenges of teaching software design in a COVID context, I re-designed the course into a "flipped classroom" one starting in Fall 2020. The "theoretical" part is published as openly accessible videos (creative commons license) on YouTube, representing more than 11 hours of content using the French language. The classroom time is used to work on case studies with small groups of students. Four universities now reuse this course material. Reusable material is available at the following URL: <a href="https://conception-objet.github.io/">https://conception-objet.github.io/</a> (FR)

# **Leadership in Delivery of Educational Programs**

**ISW** During Summer 2022, I successfully completed the Instructional skill workshop offered by the McPherson Institute to reflect on course design and delivery,

**Experiential learning.** As Associate Professor at *Université Côte d'Azur*, I oversaw the designing and implementation of a "project-based"/experiential approach for software engineering courses in the department (involving redesigning ten courses in the program). Following up on this work, I was invited to give invited talks at several education conferences, and I consulted with 17 different universities in France on this topic.

# **Course/Curriculum Development**

**UQAM/INF600G – Designing tailored applications for the aging population.** This course is designed as a collaboration between UQAM and a Human-Computer Interaction team in France (funded by Quebec's research agency – FRQNT). We created the course to focus on designing and implementing software for the aging population. Students are confronted with the multiple issues senior citizens face when using software and design adaptations to tackle these issues. Three institutions use the course (UQAM, Polytech Sophia, and IUT Nice – Côte d'Azur) and a collaboration with Toulouse (*Université Fédérale Toulouse – Midi Pyrénées*). URL: <a href="https://ace-design.github.io/champlain/">https://ace-design.github.io/champlain/</a> (FR)

### **Development/Evaluation of Educational Materials and Programs**

**2022** – ... I was selected to join the international expert pool of High Council for Evaluation of Research and Higher Education (HCÉRES), a French accreditation board in charge of evaluating universities.

**2014** – **Engineering program evaluation**. As part of a "school of engineering" in France, programs must be evaluated every six years by the *Commission du Titre d'Ingénieur* (CTI) at the national level (equivalent to CEAB). I led the software engineering part of the accreditation application (which was successfully renewed for six years).

### Other

**Guest Lectures**. I am often invited to give "invited lectures" in the context of other courses. I regularly gave interventions dedicated to empirical software engineering (UCA, UQAM), software design (Toulouse), and microservice architectures (ETS) in other programs.

**Continuous Training.** As part of *Centre National de la Recherche Scientifique* (CNRS) initiative for engineers' continuous training, I oversaw the courses "Agile software development" and "Business process modelling" for the *DevLog* national network in 2017.

### **SUPERVISORSHIPS**

Note: Students in Montreal are now co-supervised to ease my transition from UQAM to McMaster (2022).

# Master (thesis)

5 sole supervised 1 co-supervised

# Completed

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
2017 – 2018	Günther Jungblunth	Developping scalable data-processing pipelines	MASc / UCA (France)	S. Mosser	
2015 – 2016	Benjamin Benni	A language-driven approach to software composition	MASc / UCA (France)	S. Mosser	
2013 – 2014	Cyril Cecchinel	Code generation applied to sensor networks	MASc / UCA (France)	S. Mosser	
2012 – 2013	Ivan Logre	User-centered dashboards for data collected by large scale sensor networks	MASc / UCA (France)	S. Mosser	
2011 – 2012	Eirik Brantzæg	CloudML, a DSL for model-based ealization of applications in the cloud	MSc / Universitetet i Oslo (Norway)	S. Mosser	

# In progress

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
09/23 –	Stepan Bryantsev	Architecture to support heterogeneous information form legacy software	CAS / MASc in Software Engineering	S. Mosser	
09/23 – 	Arman Samiei	DevOps for software defined network	CAS / MASc in Software Engineering	S. Mosser	
01/23 –	Azam Mahdipour (transfer from the M.Eng. program)	Single source of Truth for reverse engineering legacy software	CAS / MASc in Software Engineering	S. Mosser	
01/23 – 	Alexandre Lachance	Static code analysis for P4	CAS / MASc in Software Engineering	S. Mosser	
09/21 –	Corinne Pulgar	Justification diagrams to evaluate the quality of DevOps pipelines	MASc / ETS Montréal	S. Mosser	F. Bordeleau (ETS Montréal)

### **Inactive**

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
2020	JP. Caissy (paused because of COVID-19)	Reverse engineering of microservices architectures	Informatique UQAM. MSc in Computer Science	S. Mosser	

### **Doctoral**

Note: In the French system, Assistant Professors cannot supervise doctoral students independently until they defend a habilitation thesis. I was awarded two exceptional exemptions from the President of the University for the thesis of B. Benni and I. Logre, based on my research activity and results.

- 2 sole supervised
- 5 co-supervised

# Completed

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
2017 – 2020	Sébastien Bonnieux	Float for multidisciplinary monitoring of the marine environment. From business expertise to embedded codes	UCA (France). PhD in Earth and Universe Science	G. Nolet, M. Blay- Fornarino	S. Mosser
2016 – 2019	Sami Lazreg	Variability-intensive applications over highly configurable platforms: Early feasibility and optimality analysis	UCA (France). PhD in Computer Science	P. Collet	S. Mosser
2016 – 2019	Benjamin Benni	Enabling white-box reasonings on black- box composition operators in a domain- independent way	UCA (France). PhD in Computer Science	S. Mosser	
2014 – 2017	Cyril Cecchinel	DEPOSIT, an approach to model and deploy data collection policies on heterogeneous and shared sensor networks	UCA (France). PhD in Computer Science	S. Mosser	P. Collet
2013 – 2017	Ivan Logre	Preserving separation of concerns while integrating heterogeneous domains in software systems	UCA (France). PhD in Computer Science	S. Mosser	
2010 – 2014	Alexandre Feugas	An agile, reliable, and minimalist approach to preserve the quality of service of business-processes based applications during their evolutions	University of Lille, PhD in Computer Science	L. Duchien	S. Mosser

# In progress

2019-...

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
2021 -	Alexandra Lapointe-Boisvert	Functional testing to support software measurements	Informatique UQAM, PhD in Computer Science	S. Mosser	S. Trudel

# **Supervisory Committees**

2022	Pete Michalsky. PhD in Software Engineering, McMaster University.
2022	Saira Musa. PhD in Software Engineering, McMaster University.
2022	Naveen Ganesh Muralidharan. MASc in Software Engineering. McMaster University.
2019-2022	Hyacinth Ali (McGill University, Canada). Ph.D. in Software Engineering.
	Modular combination and reuse of languages with perspective

Dimitri Prestat (UQAM, Canada). Ph.D. in Computer Science. Formal detection of defaults in mobile applications.

# **Examination Committees**

2023 William Flageol. PhD in Computer Science, Concordia University. External reviewer.

2022	Devrim Tokcan. PhD in Software Engineering. Comprehensive Exam.
2022	Shams Alkhulaif. PhD in Software Engineering. Comprehensive Exam.
2021	Alexandre Rio (Université de Rennes, France). Ph.D in Computer Science. External reviewer.
	Optimizing renewable energy usage: a digital twin for microgrids.
2021	Thibault Béziers La Fosse (Télécom Bretagne, France). Ph.D. in Computer Science.
	External reviewer. Model-driven Method for Dynamic Analysis applied to Energy-Aware Software
	Engineering
2016	Thi-Mai-Anh Bui (Université Paris 6, France). Ph.D. in Computer Science. External reviewer.
	Separation of concerns in epidemiology.

### Master (non-thesis)

### Completed

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
2021 – 2022	Mohamed Dramane Jean- Philippe Koïta	Caractérisation des dépendances architecturales dans les architectures microservices	UQAM / M.Eng.	S. Mosser	
2021 – 2022	Amine Soufyani	Evolution et impact des technologies de déploiement dans les architectures orientées microservices	UQAM / M.Eng.	S. Mosser	

### In progress

Dates	Student's Name	Project Title	Department/Program	Supervisor	Co-Supervisor
2023	Jason Lyu	TBD	M.Eng in Software Engineering / CAS	S. Mosser	
2022 -	Kai Sun	TBD	M.Eng in Software Engineering / CAS	S. Mosser	
2022 -	Deesha Patel	Justification diagrams applied to CI pipelines	M.Eng in Software Engineering / CAS	S. Mosser	

### **Research Interns supervision**

**2023** Jonah Alle Monne (M.A.Sc, *Université Grenoble Alpes*). MITACS Globalink internship. *Exploring LLVM internal structure evolution over time*.

Julia Brzustowski, BSc internship, McMaster. Probes to extract information from legacy software. (cosupervised with Vera Pantelic)

Maël Charpentier, BSc internship (Université de Montréal). Code completion for the P4 language.

Nirmal Chaudari, B.Eng (NSERC USRA) McMaster. Improving multi-language merge algorithms.

Ahmed Elzaria, B.Eng McMaster(Excellence in Research Award). *Investigating interactions among passes in the LLVM compiler toolchain*.

Dennis Fong, B.Eng. McMaster. *Using SAT solving for package dependency management in SPACK*. (co-supervised with Camille Coti, ETS Montréal)

Noel Chungath Gregory, B.Eng. McMaster. Lightweight compiler engineering for the P4 language.

Aaron Loh. B.Eng. McMaster (Dean's Excellence list). Analyzing DevOps CI pipelines at scale

Madhur Jain. (B.Sc., Indian Institute of Technology Bhilai). MITACS Globalink internship. *Improving multi-language support for Git-merge*.

Nitish Kumar (B.Sc., Indian Institute of Technology Kharagpur). MITACS Globalink internship. *Identifying conflicting dependencies in SPACK*. (co-supervised with Camille Coti, ETS Montréal)

2022 Sathurshan Arulmohan, B.Eng. McMaster (Dean's Excellence list). *Using Natural Language Processing to extract conceptual models from user stories backlog*.

Richard Li, B.Eng. internship (NSERC USRA). Building a corpus of git merge conflicts.

Alexandre Niney B.Sc. internship. *Using AI to check game rules balance at scale* (co-supervised with Vladimir Reinharz)

Floriane Paris, M.Eng internship. Software visualization for version control system repositories.

Haotian Xe, M.Sc internship. *Graphical DSL for ArduinoML, a language to program the internet of things*, (co-supervised with Steffen Zschaler)

Normand Lancelot, B.Sc. internship. Measuring the Severity of the Signs of Eating Disorders Using Similarity-Based Models. (co-supervised with Marie-Jean Meurs)

2021 Normand Lancelot, B.Sc. internship. Extracting emotions from a twitter corpus.

Amélie Lachapelle-Dagenais, B.Sc. internship. Adapting an application to the aging population.

Alyson Lecuyer, B.Tech. internship. *Showcasing students' result related to the aging population*. Avril de Goër de Herve, M.Sc. internship. *Impact analysis of compilation passes in LLVM*. Jérémy Fornarino, M.Eng. internship. *Collecting mental-health data from patients' phones*.

Yan Conigliaro, M.Eng. internship. Mining GitHub to build a corpus of conflicting merge scenarios.

Olivier Levasseur, B.Sc. internship. Heuristics to improve git-merge for Java programs.

2019 Chaima Frouni, B.Sc. internship. A form-based approach to collect data from patients.

 ${\it Gael Miton, Military engineering internship, } A {\it simulator for underwater floating devices}.$ 

Mathieu Paillard, M.Eng. internship. A DSL to support fast prototyping of composition operators.

Prune Pillone, M.Eng. internship. Adapting software for the aging population.

Florian Juroszek, M.Eng. internship. Static analysis of microservice architectures.

Alexis Segura, M.Eng. internship (Facebook Excellence Award). Empirical analysis of git-merge conflicts.

Sébastien Michelland, M.Sc. internship. *Identifying conflicts in the LLVM toolchain*.

**2018** Alexis Couvreur, M.Sc. internship. *Applying Smart contracts in an IoT context*.

Florian Lehman, M.Eng. internship. Software composition applied to Git.

Olivier Boulet, M.Eng. internship. Securing sensor data collection using blockchain.

Florian Bourniquel, M.Eng. internship. Visualizing interactions among code rewriters.

Johan Mortara, M.Eng. Internship. Automated deployment of blockchain infrastructures.

Fabien Vicente, M.Eng. internship. *Containerizing a complex architecture: the Atlassian example*. Nicolas Lecourtois. M.Eng. internship. *Securing communications among containers*.

# **Research Assistants supervision**

09/23 – 04/24 Nirmal Chaudari. Contribution to the *jPipe* open-source software. 09/23 – 04/24 Noel Chungath Gregory. Contribution to the *p4-lsp* open-source software.

### LIFETIME RESEARCH FUNDING

Note: When a grant was issued by a foreign funding agency and/or in another currency that CAD, an "approximative" translation to Canadian dollars is provided in addition to the original amount.

### Ongoing Funding

Name(s) (indicate PI, underline your name)	Title/Purpose of Research	Years of Funding	Funding Source/Agency	Funding amount (by year)
MJ. Meurs (PI), C. Bardon (PI), S. Mosser (co-app)	RÉSO-T: Une approche innovante culturellement sensible pour intégrer le traitement automatique du langage naturel dans les outils de prévention du suicide	2023-2024	FRQNT (Quebec)	\$50,000
F. Bordeleau (PI), J. Dingel, S. Mosser (co-PIs)	DevOps for Software Defined Network	2022 - 2025	NSERC-Mitacs Alliance Program	\$330,000

S. Mosser (PI)	Startup fund	2022	Faculty of Engineering	\$200,000 (total)
S. Mosser, R. Paige (co-PIs)	Centre of Excellence for Artificial Intelligence and Smart Mobility – RTA 5: Cloud Automation	2021 - 2026	Cubic Transportation Systems (CTS)	\$300,000
S. Mosser (PI)	Software composition at large scale	2020 - 2025	NSERC Discovery Grant	\$29,000

# **Funding Completed**

Note: The "funding amount" column for the completed projects represents the total amount of funding for the project, for its whole duration (as, depending on funding agencies, installments might not be yearly-based).

Name(s) (indicate PI, underline your name)	Title/Purpose of Research	Years of Funding	Funding Source/Agency	Funding amount
Y. Farmer (PI), ME. Bouthillier, A. Duhoux, <u>S. Mosser</u> , MJ. Meurs	La perception populationnelle du risque sanitaire et l'acceptabilité sociale face au déconfinement. Informer les décideurs politiques à l'aide du forage de données sur Twitter	2021	SSHRC	\$25,000
C. Messier (PI), MJ. Meurs, J. Dupras, T. Handa, <u>S. Mosser</u> , A. Paquette, A. Smargiassi	SylvCiT: un logiciel intelligent pour maximiser la résilience et les bienfaits des arbres municipaux face aux changements globaux	2021 - 2022	FRQNT (QC)	\$140,000
S. Vial (PI), M-J Meurs, S. Gambs, S. Guay, <u>S. Mosser</u> (co-PIs)	Mentallys, un service unique de cyber-santé mentale.	2020 - 2022	FRQNT (Quebec)	\$100,000
MJ. Meurs (PI), M. Benichou, G. Bondolfi, M. Bonenfant, S. Gambs, C. Malaterre, D. Martin, F. Millerand, S. Mosser	RELAI: Respectful and Explainable AI to Support Struggling People and Mental Health Practitioners	2019  2022	NFRF Exploration	\$250,000
L. Gonnord, S. Mosser (co-PIs)	CharActerisation of Program Evolution with Static Analyses (CAPESA)	2019 - 2022	Inria (Équipe Associée)	30,000 EUR (~ \$45,000)
S. Mosser (PI)	UQAM Faculty of Science Startup package	2019 - 2021	UQAM PAFARC	\$15,000 (unionized amount)
S. Mosser (co-PI), AM. Pinna-Déry (co-PI)	Software engineering for the aging population	2019 - 2021	FRQNT (QC), Ministère des affaires étrangères (MAE, FR) \$18,300 + 10,000 EU (~ \$33,000	
L. Lizzi (PI) et al (8 co-applicants)	Internet of Things Wireless Infrastructures (I-Win).	2018 - 2019	UCA Initiative of Excellence	36,000 EUR (~\$54,000)
F. Verdier (PI) et al Smart IoT for mobility		2018	UCA Initiative of	25,000 EUR

(6 co-applicants)	(Phase I).	_	Excellence	(~\$37,500)
(0 co-applicants)		2019	Excellence	(~\$37,300)
S. Mosser	Formalising Scalable Composition Operators (FIASCO)	2018	CNRS Research Accelerator	5,000 EUR (~\$7,500)
M. Blay-Fornarino (co-PI), <u>S. Mosser</u> (co-PI), G. Nolet	Software Composition for the MERMAID	2017 - 2020	Provence - Alpes Côte d'Azur regional research	100,000 EUR (~\$150,000)
P. Collet (co-PI), S. Mosser (co-PI).	Variability in cyber-Physical Systems	2016 - 2020	fund	
B. Benni, <u>S. Mosser</u> (PI)	Modelling Software Composition	2016 - 2019	UCA school of graduate studies	100,000 EUR (~\$150,000)
S. Mosser (PI)	Modelling for scaling (M4S)	2016	CNRS early career accelerator	10,000 EUR (~\$15,000)
C. Cecchinel, P. Collet (co-PI), S. Mosser (co-PI	DEPOSIT at scale	2017	European Institute of Innovation and Technology (EIT Digital), industrial transfer program.	35,000 EUR (~\$52,500)
C. Cecchinel, P. Collet (co-PI), S. Mosser (co-PI)	Tailored composition for large- scale sensing networks	2014 - 2017	UCA school of 100,000 EU graduate studies (~\$150,000	
I. Logre, <u>S. Mosser</u> (PI)	Model-based sensor data visualizations	2013 - 2017	UCA school of graduate studies	100,000 EUR (~\$150,000)
M. Blay-Fornarino (co-PI), <u>S. Mosser</u> (co-PI)	Domain-specific languages & Software Product Line for Cloud-computing (IDOL)	2012 	European Union international cooperation research fund (EGIDE), Aurora program	20,000 EUR (~\$30,000)
S. Mosser (PI)	Modelling for Cloud- computing	2012 - 2014	Amazon research sponsorship 25,000 EUR (~\$37,500)	
M. Blay-Fornarino (PI)	YourCast, an <i>a-la-carte</i> information broadcasting system	2012 - 2014	Agence nationale de la recherche (ANR), Technological Transfer program  Agence nationale 250,000 EUI (~\$375,000)	
E. di Nitto (PI) et al (12 universities)	Model-driven approach for design and execution of applications on multiple clouds (MODAClouds)	2011 – 2015	European Union Research Fund, Framework Program 7 (EU-FP7)  8,700,000 EU (~\$13,000,000	
Keith Jeffery (PI) et al (17 universities)	A model-based cross cloud development and deployment platform (PaaSage).	2011 - 2016	European Union Research Fund, Framework Program 7 (EU-FP7)  Py700,000 EU (~\$14,500,00	
G. Horn (PI) et al (13 universities)	Reuse and Migration of legacy applications to interoperable	2011	European Union Research Fund,	4,500,000 EUR (~\$6,750,000)

	cloud services (REMICS)	2016	Framework Program 7 (EU- FP7)	
A. Solberg (PI) at al (12 universities)	Environmental services infrastructure with ontologies (ENVISION)	2010 - 2013	European Union Research Fund, Framework Program 7 (EU-FP7).	\$4,500,000 (~\$6,750,000)

# **Funding Applied for**

Name(s)	Title/Purpose of Research	Years of	Funding	Funding amount
(indicate PI, underline your name)		Funding	Source/Agency	(by year)
R. Paige (PI), D. Down (co-PI), S. Mosser (co-PI), V. Pantelic (co-PI)	Automated Software and Performance Engineering for Integrated Transportation Systems	2024 - 2028	NSERC Alliance	\$785,000
Milena Head (PI) et al (17 co-applicants)	Aging, Mobility & the Digital Divide: Bridging Digital Divides for Older Adults Through Design	2023 - 2028	MIRA	\$200,000

# **LIFETIME PUBLICATIONS**

Institution	Year	Journa	ls	Conferen	ices	Worksho	ops
		International	National	International	National	International	National
McMaster	2023	2		1		2	
	2022	2		3			
	2021	1		3			
UQAM	2020	4		4			
	2019	3		2			
	2018	2		5		5	
	2017	In char	ge of the redesi	gn of the software engi	ineering curricu	lum at Polytech Sophi	а
UCA	2016			2			
	2015			1		1	
	2014			2		3	
	2013	1		1		4	
SINTEF	2012			4	1	5	
Inria	2011			5	2	1	
	2010	1		1	1		
U. Nice	2009			1	1	1	
(Ph.D.)	2008			2	1		1
	2007		1		1	1	1
	Total:	16	1	36	7	21	2

*Underlined names are students under my direct supervision for the work done in the publication.* 

#### Peer Reviewed

#### **Journal Articles**

- [J1] M. Levy, E. C. Groen, K. Taveter, D. Amyot, E. Yu, L. Liu, I. Richardson, M. Spichkova, A. Jussli, and S. Mosser. Sustaining Human Health: A Requirements Engineering Perspective. *Journal of Systems and Software (JSS)*, 204, pages 111792, 2023,
- [J2] W. K.G. Assunção, J. Krüger, S. Mosser, and S. Selaoui. How do microservices evolve? An empirical analysis of changes in open-source microservice repositories. *Journal of Systems and Software (JSS)*, 204, pages 111788, 2023.
- [J3] I. Trabelsi, M. Abdellatif, A. Abubaker, N. Moha, **S. Mosser**, S. Ebrahimi-Kahou, and Y.-G. Guéhéneuc. From legacy to microservices: A type-based approach for microservices identification using machine learning and semantic analysis. *Journal of Software: Evolution and Process (JSEP)*, 2022.
- [J4] S. Mosser, V. Reihnarz, and <u>C. Pulgar</u>. Modelling Agile Backlogs as Composable Artefacts to support Developers and Product Owners. Journal of Object Technology (JOT). 2022
- [J5] B. Combemale, J. Kienzle, G. Mussbacher, H. Ali, D. Amyot, M. Bagherzadeh, E. Batot, N. Bencomo, <u>B. Benni</u>, J.-M. Bruel, J. Cabot, B. H. C. Cheng, P. Collet, G. Engels, R. Heinrich, J.-M. Jézéquel, A. Koziolek, S. Mosser, R. H. Reussner, H A. Sahraoui, R. Saini, J. Sallou, S. Stinckwich, E. Syriani, and M. Wimmer. A Hitchhiker's Guide to Model-Driven Engineering for Data-Centric Systems. IEEE Software. 2021
- [J6] S. Bonnieux, D. Cazau, S. Mosser, M. Blay-Fornarino, Y. Hello, and G. Nolet. MeLa: A Programming Language for a New Multidisciplinary Oceanographic Float. *MDPI Sensors*, 2020.
- [J7] <u>B. Benni</u>, **S. Mosser**, M. Acher, and M. Paillart. Characterizing Black-box Composition Operators via Generated Tailored Benchmarks. *Journal of Object Technology (JOT): special issue ECMFA'20*, June 2020.
- [J8] G. Mussbacher, B. Combemale, J. Kienzle, S. Abrahão, H. Ali, N. Bencomo, M. Búr, L. Burgueño, G. Engels, P. Jeanjean, J.-M. Jézéquel, T. Kühn, S. Mosser, H. Sahraoui, E. Syriani, D. Varró, and M. Weyssow. Opportunities in Intelligent Modeling Assistance. Software and Systems Modeling, 2020.
- [J9] B. Combemale, J. Kienzle, G. Mussbacher, H. Ali, D. Amyot, M. Bagherzadeh, E. Batot, N. Bencomo, <u>B. Benni</u>, J.-M. Bruel, J. Cabot, B. H. C. Cheng, P. Collet, G. Engels, R. Heinrich, J.-M. Jézéquel, A. Koziolek, **S. Mosser**, R. Reussner, H. Sahraoui, R. Saini, J. Sallou, S. Stinckwich, E. Syriani, and M. Wimmer. A Hitchhiker's Guide to Model-Driven Engineering for Data-Centric Systems. *IEEE Software*, 2020.
- [J10] <u>C. Cecchinel</u>, F. Fouquet, **S. Mosser**, and P. Collet. Leveraging live machine learning and deep sleep to support a self-adaptive efficient configuration of battery powered sensors. *Future Generation Computer Systems* (*FGS*), Mar. 2019.
- [J11] <u>B. Benni</u>, **S. Mosser**, N. Moha, and M. Riveill. A Delta-oriented Approach to Support the Safe Reuse of Black-box Code Rewriters. *Journal of Software: Evolution and Process (JSEP), ICSR special issue*, July 2019.
- [J12] L. Burgeno, F. Ciccozzi, M. Famelis, G. Kappel, L. Lambers, S. Mosser, R. Paige, A. Pierantonio, A. Rensink, R. Salay, G. Taentzer, A. Vallecillo, and M. Wimmer. Contents for a Model-Based Software Engineering Body of Knowledge. *Journal of Software and Systems Modeling*, June 2019.
- [J13] <u>S. Lazreg</u>, P. Collet, and **S. Mosser**. Functional Feasibility Analysis of Variability-Intensive Dataflow-oriented Applications over Highly configurable Platforms. *ACM SIGAPP Applied Computing Review*, Sept. 2018.
- [J14] B. Combemale, J. Kienzle, G. Mussbacher, O. Barais, E. Bousse, W. Cazzola, P. Collet, T. Degueule, R. Heinrich, J.-M. Jézéquel, M. Leduc, T. Mayerhofer, S. Mosser, M. Schöttle, M. Strittmatter, and A. Wortmann. Concern-Oriented Language Development (COLD): Fostering Reuse in Language Engineering. Computer Languages, Systems and Structures, 2018.
- [J15] **S. Mosser** and M. Blay-Fornarino. ADORE, a Logical Meta-model Supporting Business Process Evolution. *Science of Computer Programming*, 78(8):1035 1054, 2013.
- [J16] S. Mosser, M. Blay-Fornarino, and R. France. Workflow Design using Fragment Composition (Crisis Management System Design through ADORE). *Transactions on Aspect-Oriented Software Development (TAOSD)*, Special issue on Aspect Oriented Modeling:1–34, 2010.
- [J17] M. Blay-Fornarino, V. Hourdin, C. Joffroy, S. Lavirotte, **S. Mosser**, A.-M. Pinna Déry, P. Renevier, M. Riveill, and J.-Y. Tigli. Architecture pour l'adaptation de Systèmes d'Information Interactifs Orientés Services. *Revue des Sciences et Technologies de l'Information Série L'Objet : logiciel, bases de données, réseaux*, pages 93–118, 2007.

### Other (Proceedings of International Conferences)

- [C1] D. Maupomé, T. Soulas, F. Rancourt, G. Cantin-Savoie, G. Winterstein, S. Mosser, and M.-J. Meurs. Lightweight methods for early risk detection. In *Proceedings of the Working Notes of CLEF 2023 Conference and Labs of the Evaluation Forum, Thessaloniki, September 18th to 21th, 2023 (CEUR Workshop Proceedings)*, 2023.
- [C2] S.H. Hosseini Saravani, L. Normand, D. Maupomé, F. Rancourt, T. Soulas, S. Besharati, A. Normand, S. Mosser, and M.-J. Meurs. Measuring the Severity of the Signs of Eating Disorders Using Similarity-Based Models. In Proceedings of the Working Notes of CLEF 2022 Conference and Labs of the Evaluation Forum, Bologna, Italy, September 5th to 8th, 2022 (CEUR Workshop Proceedings), CEUR-WS.org, 3180, pages 936-946, 2022.
- [C3] J. Kienzle, B. Combemale, G. Mussbacher, O. Alam, F. Bordeleau, L. Burgueño, G. Engels, Jessie J., J.-M. Jézéquel, B. Kemme, S. Mosser, H. A. Sahraoui, M Schiedermeier, and E. Syriani. Global Decision Making Over Deep Variability in Feedback-Driven Software Development. In 37th IEEE/ACM International Conference on Automated Software Engineering, ASE 2022, Rochester, MI, USA, October 10-14, 2022 ACM, pages 178:1-178:6, 2022.
- [C4] J. Krüger, W. K. G. Assunção, I. Ayala, and **S. Mosser**. International Workshop on Variability Management for Modern Technologies (VM4ModernTech 2022). In *SPLC '22: 26th ACM International Systems and Software Product Line Conference, Graz, Austria, September 12 16, 2022, Volume A ACM, pages 266, 2022*
- [C5] A. Lapointe-Boisvert, S. Mosser, and S. Trudel. Towards Modelling Acceptance Tests as a Support for Software Measurement. In 13th System Analysis and Modelling Conference - ACM/IEEE International Conference on Model Driven Engineering Languages and Systems Companion, MODELS 2021 Companion, Fukuoka, Japan, October 10-15, 2021 IEEE, pages 827-832, 2021.
- [C6] <u>A. Lachapelle-Dagenais</u>, **S. Mosser**, A.-M. Pinna-Dery, and M. Blay-Fornarino. Requirements Engineering for the Ageing Population: a Teaching Perspective. In 29th IEEE International Requirements Engineering Conference Workshops, RE 2021 Workshops, Notre Dame, IN, USA, September 20-24, 2021 IEEE, pages 248-257, 2021.
- [C7] S. Mosser and J.-M. Bruel. Requirements Engineering in the DevOps Era (tutorial). In *International Requirements Engineering Conference*, RE, Sep. 2021.
- [C8] S. Mosser, J.-P. Caissy, F. Juroszek, F. Vouters, and N. Moha. Charting Microservices to Support Services' Developers: the Anaximander Approach. In *International Conference on Service-Oriented Computing (ICSOC)*, short paper, Dec. 2020.
- [C9] G. Mussbacher, B. Combemale, S. Abrahão, N. Bencomo, L. Burgueño, G. Engels, J. Kienzle, T. Kühn, S. Mosser, H. Sahraoui, and M. Weyssow. Towards an Assessment Grid for Intelligent Modeling Assistance. In MDE Intelligence 2020 2nd Workshop on Artificial Intelligence and Model-driven Engineering, Oct. 2020.
- [C10] D. Maupomé, M. D. Armstrong, R. M. Belbahar, J. Alezot, R. Balassanio, M. Queudot, S. Mosser, and M.-J. Meurs. Early mental health risk assessment through writing styles, topics and neural models. In Working Notes of CLEF 2020 - Conference and Labs of the Evaluation Forum, 2020.
- [C11] B. Benni, **S. Mosser**, <u>J.-P. Caissy</u>, and Y.-G. Guéhéneuc. Can Microservice-Based Online-Retailers be Used as an SPL? In *International System and Software Product Line Conference (SPLC)*, Dec. 2020.
- [C12] <u>S. Lazreg</u>, M. Cordy, P. Collet, P. Heymans, and **S. Mosser**. Multifaceted Automated Analyses for Variability-Intensive Embedded Systems. In *41st ACM/IEEE International Conference on Software Engineering*, ICSE, May 2019.
- [C13] S. Bonnieux, S. Mosser, B.-F. Mireille, Y. Hello, and G. Nolet. Model-driven Programming of Autonomous Floats for Multidisciplinary Monitoring of the Oceans. In *IEEE Oceanic Engineering Society & Marine Technology Society*, OCEANS, June 2019.
- [C14] <u>S. Lazreg</u>, P. Collet, and **S. Mosser**. Assessing the Functional Feasibility of Variability-Intensive Data Flow-Oriented Systems. In *Symposium on Applied Computing (Best Paper Award)*, Pau, France, Apr. 2018.
- [C15] B. Benni, S. Mosser, N. Moha, and M. Riveill. A Delta-oriented Approach to Support the Safe Reuse of Black-box Code Rewriters. In 17th International Conference on Software Reuse (ICSR'18), Madrid, France, May 2018.
- [C16] <u>B. Benni</u>, **S. Mosser**, P. Collet, and M. Riveill. Supporting Micro-services Deployment in a Safer Way: a Static Analysis and Automated Rewriting Approach. In *Symposium on applied Computing*, Pau, France, Apr. 2018.
- [C17] S. Mosser and J.-M. Bruel. Reconciling Requirements and Continuous Integration in an Agile Context (tutorial). In *International Requirements Engineering Conference*, RE, Aug. 2018.
- [C18] F. Fouquet, T. Hartmann, S. Mosser, and M. Cordy. Enabling lock-free concurrent workers over temporal

- graphs composed of multiple time-series. In *Symposium on Applied Computing*, volume 8, Pau, France, Apr. 2018.
- [C19] <u>C. Cecchinel</u>, **S. Mosser**, and P. Collet. Towards a (de)composable workflow architecture to define data collection policies. In ACM, editor, *Symposium on Applied Computing (SAC 2016)*, Pisa, Italy, Apr. 2016.
- [C20] <u>C. Cecchinel</u>, **S. Mosser**, and P. Collet. Automated Deployment of Data Collection Policies over Heterogeneous Shared Sensing Infrastructures. In *23rd Asia-Pacific Software Engineering Conference*, Hamilton, New Zealand, Dec. 2016.
- [C21] <u>C. Cecchinel</u>, S. Mosser, and P. Collet. Software Development Support for Shared Sensing Infras- tructures: A Generative and Dynamic Approach. In *International Conference on Software Reuse (ICSR'15)*, Miami, United States, Jan. 2015. Springer.
- [C22] S. Urli, M. Blay-Fornarino, P. Collet, **S. Mosser**, and M. Riveill. Managing a Software Ecosystem Using a Multiple Software Product Line: a Case Study on Digital Signage Systems. In *Euromicro Conference series on Software Engineering and Advanced Applications (SEAA'14)*, Special issue: Software Product Lines and Software Ecosystems, pages 1–8, Verona, Italy, Aug. 2014. Elsevier.
- [C23] <u>I. Logre</u>, **S. Mosser**, P. Collet, and M. Riveill. Sensor Data Visualisation: A Composition-Based Approach to Support Domain Variability. In *European Conference on Modelling Foundations and Applications (ECMFA 2014)*, volume 8569, pages 101–116, York, United Kingdom, July 2014. Springer.
- [C24] <u>A. Feugas</u>, **S. Mosser**, and L. Duchien. A Causal Model to predict the Eect of Business Process Evolution on Quality of Service. In *Conference on the Quality of Software Architectures (QoSA)*, pages 143–152, Vancouver, Canada, June 2013. ACM.
- [C25] <u>E. Brandtzæg</u>, P. Mohagheghi, and **S. Mosser**. Towards a Domain-Specific Language to Deploy Applications in the Clouds. In *In 3rd International Conference on Cloud Computing, GRIDs, and Virtualization*, pages 213–218, 2012.
- [C26] S. Mosser, M. Blay-Fornarino, and L. Duchien. A Commutative Model Composition Operator to Support Software Adaptation. In A. Vallecillo, J.-P. Tolvanen, E. Kindler, H. Störrle, and D. Kolovos, editors, *Modelling Foundations and Applications*, pages 4–19, Berlin, Heidelberg, 2012. Springer Berlin Heidelberg.
- [C27] C. A. Parra, D. Romero, S. Mosser, R. Rouvoy, L. Duchien, and L. Seinturier. Using Constraint-based Optimization and Variability to Support Continuous Self-Adaptation. In 27th ACM Symposium on Applied Computing (SAC'12), 7th Dependable and Adaptive Distributed Systems (DADS) Track, pages 486–491, Trento, Italy, Mar. 2012.
- [C28] V. Aranega, A. Etien, and S. Mosser. Using Feature Model to Build Model Transformation Chains. In R. B. France, J. Kazmeier, R. Breu, and C. Atkinson, editors, *Model Driven Engineering Languages and Systems*, pages 562–578, Berlin, Heidelberg, 2012. Springer Berlin Heidelberg.
- [C29] F. D. G. Velásquez, M. Blay-Fornarino, and **S. Mosser**. Introducing Security Access Control Policies into Legacy Business Processes. In *Fifteenth International Enterprise Distributed Object Computing Conference (EDOC'11)*, short paper, pages 42–49, Helsinki, Finland, Aug. 2011. IEEE.
- [C30] **S. Mosser**, G. Mussbacher, M. Blay-Fornarino, and D. Amyot. From Aspect-oriented Requirements Models to Aspect-oriented Business Process Design Models. In *10th international conference on Aspect Oriented Software Development (AOSD'11)*, pages 1–12, Porto de Galinhas, Brazil, Mar. 2011. ACM.
- [C31] S. Mosser, G. Hermosillo, A.-F. Le Meur, L. Seinturier, and L. Duchien. Undoing Event-Driven Adaptation of Business Processes. In 8th IEEE International Conference on Services Computing (SCC'11), pages 234–241, Washington DC, United States, July 2011. IEEE.
- [C32] M. Clavreul, S. Mosser, M. Blay-Fornarino, and R. B. France. Service-Oriented Architecture Modeling: Bridging the Gap between Structure and Behavior. In J. Whittle, T. Clark, and T. Kühne, editors, *Model Driven Engineering Languages and Systems (MODELS'11)*, volume 6981 of *Lecture Notes in Computer Science*, pages 289–303, Wellington, New Zealand, Oct. 2011. Springer Berlin / Heidelberg.
- [C33] M. Alférez, N. Amalio, S. Ciraci, F. Fleurey, J. Kienzle, J. Klein, M. Kramer, **S. Mosser**, G. Mussbacher, E. Roubstova, and G. Zhang. Aspect-Oriented Model Development at Dierent Levels of Abstraction. In *7th European Conference on Modelling Foundations and Applications (ECMFA'11)*, pages 1–16, Birmingham, United Kingdom, June 2011. Springer LNCS.
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- [C37] S. Mosser, M. Blay-Fornarino, and M. Riveill. Web Services Orchestration Evolution: A Merge Process For Behavioral Evolution. In *2nd European Conference on Software Architecture (ECSA'08)*, pages 1–16, Paphos, Cyprus, Sept. 2008. Springer LNCS.

### Other (Proceedings of International Workshops)

- [W1] V. Bandur, M. Lawford, S. Mosser, R. Paige, V. Pantelic, and A. Wassyng. Using Assurance Cases to Prevent Malicious Behaviour from Targeting Safety Vulnerabilities. In 8th International Workshop on Assurance Cases for Software-intensive Systems (ASSURE) (SafeComp 2023), 2023.
- [W2] A. Lachance, and S. Mosser. A Language Engineering Approach to Support the P4 Coding Ecosystem. In P4 Workshop; Spring 2023 (Intel) 2023.
- [W3] B. Benni, P. Collet, G. Molines, S. Mosser, and A.-M. Pinna-Dery. Teaching DevOps at the Graduate Level, a report from Polytech Nice Sophia (short paper). In First International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment, Villebrumier, France, Mar. 2018. LASER Foundation, Springer.
- [W4] L. Gonnord and S. Mosser. Practicing Domain-Specific Languages: From Code to Models. In 14th Educators Symposium at MODELS 2018, Oct. 2018.
- [W5] F. Ciccozzi, M. Famelis, G. Kappel, L. Lambers, S. Mosser, R. F. Paige, A. Pierantonio, A. Rensink, R. Salay, G. Taentzer, A. Vallecillo, and M. Wimmer. How do we teach Modelling and Model-Driven Engineering? A survey. In 14th Educators Symposium at MODELS 2018, Oct. 2018.
- [W6] F. Ciccozzi, M. Famelis, G. Kappel, L. Lambers, S. Mosser, R. Paige, A. Pierantonio, A. Rensink, R. Salay, G. Taentzer, A. Vallecillo, and M. Wimmer. Towards a Body of Knowledge for Model-Based Software Engineering. In 14th Educators Symposium at MODELS 2018, Oct. 2018.
- [W7] M. Blay-Fornarino, G. Jungbluth, and S. Mosser. Applying DevOps to Machine Learning, ROCK- Flows, a Story from the Trenches (short paper). In First International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment, Villebrumier, France, Mar. 2018. LASER Foundation, Springer.
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- [W9] <u>C. Cecchinel</u>, M. Jimenez, **S. Mosser**, and M. Riveill. An Architecture to Support the Collection of Big Data in the Internet of Things. In *International Workshop on Ubiquitous Mobile cloud (co-located with SERVICES)*, Anchorage, United States, June 2014.
- [W10] **S. Mosser**, P. Collet, and M. Blay-Fornarino. Exploiting the internet of things to teach domain-specific languages and modeling: The arduinoml project. In *EduSymp@MoDELS*, 2014.
- [W11] P. Collet, S. Mosser, S. Urli, M. Blay-Fornarino, and P. Lahire. Experiences in Teaching Variability Modeling and Model-driven Generative Techniques. In *Proceedings of the 18th International Software Product Line Conference: Companion Volume for Workshops, Demonstrations and Tools - Volume 2*, SPLC '14, pages 26–29, New York, NY, USA, 2014. ACM.
- [W12] S. Urli, S. Mosser, M. Blay-Fornarino, and P. Collet. How to Exploit Domain Knowledge in Multiple Software Product Lines? In *Fourth International Workshop on Product Line Approaches in Software Engineering at ICSE 2013 (PLEASE 2013)*, page 4 p., San Fransisco, United States, May 2013. ACM.
- [W13] S. Mosser, I. Logre, N. Ferry, and P. Collet. From Sensors to Visualization Dashboards: Need for Language Composition. In *Globalization of Modeling Languages workshop (GeMOC'13)*, Miami, United States, Sept. 2013.
- [W14] D. Romero, S. Urli, C. Quinton, M. Blay-Fornarino, P. Collet, L. Duchien, and S. Mosser. SPLEMMA: A Generic Framework for Controlled-Evolution of Software Product Lines. In MAPLE/SCALE 2013, volume 2, pages 59–66, Tokyo, Japan, Aug. 2013.
- [W15] B. Combemale, J. DeAntoni, R. B. France, F. Boulanger, S. Mosser, M. Pantel, B. Rumpe, R. Salay, and M. Schindler. Report on the First Workshop on the Globalization of Modeling Languages. *CoRR*, abs/1408.5703, 2013, 1408.5703.
- [W16] S. Urli, M. Blay-Fornarino, P. Collet, and S. Mosser. Using Composite Feature Models to Support Agile Software Product Line Evolution. In *International Workshop on Models and Evolution in MODELS Conference*,

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- [W17] E. Brandtzæg, **S. Mosser**, and P. Mohagheghi. Towards CloudML, a Model-based Approach to Provision Resources in the Clouds. In *International Workshop on Cloud and MDE (co-loacted with ECMFA)*, pages 1 6, 2012.
- [W18] **S. Mosser**, F. Fleurey, B. Morin, F. Chauvel, A. Solberg, and <u>I. Goutier</u>. SENSAPP As a Reference Platform to Support Cloud Experiments: From the Internet of Things to the Internet of Services. In *Proceedings of the 2012 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, SYNASC'12, pages 400–406, Washington, DC, USA, 2012. IEEE Computer Society.
- [W19] **S. Mosser**, L. Duchien, C. A. Parra, and M. Blay-Fornarino. Using Domain Features to Handle Feature Interactions. In A. C. P. Series, editor, *Variability Modelling Software-Intensive Systems (VAMOS)*, pages 101–110, Leipzig, Germany, Jan. 2012. Ulrich Eisenecker, University of Leipzig, DE.
- [W20] D. Ardagna, E. Di Nitto, G. Casale, D. Petcu, P. Mohagheghi, S. Mosser, P. Matthews, A. Gericke, C. Ballagny, F. D'Andria, C.-S. Nechifor, and C. Sheridan. MODAClouds: A Model-driven Approach for the Design and Execution of Applications on Multiple Clouds. In *Proceedings of the 4th International Workshop on Modeling in Software Engineering*, MiSE '12, pages 50–56, Piscataway, NJ, USA, 2012. IEEE Press.
- [W21] C. Quinton, **S. Mosser**, C. Parra, and L. Duchien. Using Multiple Feature Models to Design Applications for Mobile Phones. In *MAPLE / SCALE workshop, colocated with SPLC'11*, pages 1–8, Munich, Germany, Aug. 2011.
- [W22] **S. Mosser**, M. Blay-Fornarino, and M. Riveill. Service Oriented Architecture Definition Using Composition of Business-Driven Fragments. In *Models and Evolution (MODSE'09), MODELS'09 workshop*, pages 1–10, Denver, Colorado, United States, Oct. 2009.
- [W23] **S. Mosser**. Are Functional Languages a good way to represent productive meta-models? In *4th European Lisp Workshop (ELW'07)*, pages 1–6, Berlin, Germany, France, July 2007.

### Other (Proceedings of National Conferences and Workshops)

- [N1] F. Chauvel, **S. Mosser**, and A. Solberg. Reconsidering QoS Analysis in Dynamic and Open Systems. In *lère conférence en ingénierie du logiciel (CIEL'12), short paper*, , Rennes, June 2012.
- [N2] A. Feugas, **S. Mosser**, A.-F. Le Meur, and L. Duchien. Déterminer l'impact d'une évolution dans les processus métiers. In *Journées sur l'Ingénierie Dirigée par les Modèles (IDM'11)*, pages 71–76, Lille, France, June 2011.
- [N3] C. Brel and **S. Mosser**. Vers une approche flot de données pour supporter la composition d'interfaces hommemachine. In *Journées sur l'Ingénierie Dirigée par les Modèles(IDM'11)*, pages 1–6, Lille, France, June 2011. CNRS.
- [N4] **S. Mosser** and M. Blay-Fornarino. Taming Orchestration Design Complexity through the ADORE Framework. In *Journées 2010 du GDR GPL, CNRS*, Pau, France, Mar. 2010.
- [N5] **S. Mosser** and M. Blay-Fornarino. Réflexions autour de la construction dirigée par les modèles d'un atelier de composition d'orchestrations. In *15ème conférence francophone sur les Langages et Modèles à Objets (LMO'09)*, pages 1–16, Nancy, France, Mar. 2009. Cépadues.
- [N6] **S. Mosser**, M. Blay-Fornarino, and M. Riveill. Un modèle d'évolution multi-vues des Architectures Orientées Services. In *Actes de l'Atelier Doctorant LMO'08(DOC LMO'08)*, workshop, , page 6, Montréal, Mar. 2008. Université de Montréal -.
- [N7] **S. Mosser**, M. Blay-Fornarino, P. Collet, and P. Lahire. Vers l'intégration dynamique de contrats dans des architectures orientées services : une experience applicative du modèle au code. In *2ème Conférence sur les Architectures Logicielles (CAL'08)*, pages 1–15, Montréal, Canada, Mar. 2008.
- [N8] **S. Mosser**, M. Blay-Fornarino, and M. Riveill. Orchestrations de Services Web: Vers une évolution par composition. In *Atelier RIMEL (Rétro-Ingénierie, Maintenance et Evolution des Logiciels)*, page 6, Toulouse, France, Mar. 2007. Dalila Tamzalit, Salah Sadou.
- [N9] C. Joffroy, **S. Mosser**, M. Blay-Fornarino, and C. Nemo. Des Orchestrations de Services Web aux Aspects. In U. d. T. EMN, INRIA, editor, *3ème Journée Francophone sur le Développement de Logiciels Par Aspects (JFLDPA'2007)*, pages 1–13, Toulouse, France, Mar. 2007.

### Non-Peer Reviewed

#### Community Engagement and Knowledge Exchange

• S. Mosser. La Thèse ... (seminar for new Ph.D. Students at Inria Lille – Nord Europe). 2011.

### **Submitted for Publication**

[S1] S. Arulhoman, S. Mosser, M.-J. Meurs. Using CRF to extract conceptual models from product backlogs. Submitted to Canadian AI. June 2023.

### PRESENTATIONS AT MEETINGS

### **Keynotes**

- [K1] <u>A. Lachance</u> and **S. Mosser**. Developing a modular language server to support P4 developers. P4 developers days meeting, September 2023.
- [K2] **S. Mosser**. From Software Composition at Scale to Scaling software composition: 50 shades of scalability. Consortium for Software Engineering Research (CSER) 2022 Spring Meeting. May 2022.
- [K3] <u>B. Benni</u> and **S. Mosser**. Applying Software Composition to the Docker Ecosystem. Amadeus Global Tech Forum. **Keynote**. Oct. 2018
- [K4] S. Mosser. Renforcer l'engagement étudiant en projet. Journées sur la pédagogie active, Université Bretagne-Loire. Keynote. July 2017.
- [K5] S. Mosser. Projets, Agilité & École d'Ingénieur. Journées sur l'Innovation Pédagogique, Université du Maine. Keynote. Mar. 2017.

#### Invited

- [P1] S. Mosser. Teaching Modelling, Modelling Teaching. The MDE Network, Mar. 2023.
- [P2] S. Mosser. Dockerizing your Teaching: Do's and Don'ts. The MDE Network, Mar. 2022
- [P3] S. Mosser. Software Composition in a Cyber-Physical World. Canada-Norway collaboration, Østfold College, Mar 2022.
- [P4] S. Mosser. Génie Logiciel pour la Population Vieillissante. La France à l'UQAM, Feb. 2022.
- [P5] S. Mosser. Software Composition for the IoT & Cloud. Canada Border Services Agency (PD&DD, BTID), Dec. 2021.
- [P6] S. Mosser. Justification Diagrams in a DevOps Context. Model-driven Engineering & Requirements Engineering working groups, CNRS. Dec. 2021.
- [P7] S. Mosser. Building a CI/CD pipeline (demo). Association Générale des Étudiantes et Étudiants en Informatique de l'UQAM (Invited seminar). Dec. 2021.
- [P8] S. Mosser. User stories & Acceptance Testing. Canada Border Services Agency (PD&DD, BTID), Nov. 2021.
- [P9] S. Mosser. Building Software for the Ageing Population: A Software Engineering Point of View. Smart Mobility for the ageing Population (sMAP) research seminar, Canada. Oct. 2021.
- [P10] S. Mosser. Docker in a CI/CD context. Canada Border Services Agency (PD&DD, BTID), Oct. 2021.
- [P11] **S. Mosser**. Anaximander, a lightweight approach to support software exploration. Working group on software adaptation (YODA), *Centre National de la Recherche Scientifique* (CNRS). Feb. 2021.
- [P12] **S. Mosser**. Using a project-based approach to support Software Engineering teaching. LATECE seminar, UOAM, Montréal, Canada. Feb. 2020.
- [P13] S. Mosser. How can models help data scientists? Lessons learned from an undercover agent. 2<sup>nd</sup> Winter Modelling Meeting. San Vigilo de Marrebe, Italy. Feb. 2020.
- [P14] S. Mosser. Software Composition in a Cyber-Physical World. Ptidej Research Seminar, Concordia University, Montréal, Canada. Dec. 2019. Concordia
- [P15] S. Mosser. Les aspects génie logiciel pour les Systèmes Cyber-Physique. In *Journées IIoT du GDR MACS, CNRS*, France, July 2018.
- [P16] V. Aranega, A. Etien, and S. Mosser. Using Feature Model to build Model Transformation Chains. In *Journées 2013 du GDR GPL, CNRS*, France, Mar. 2013.
- [P17] S. Mosser, G. Mussbacher, M. Blay-Fornarino, and D. Amyot. Une approche orientée aspect allant du modèle d'exigences au modèle de conception. In *Journées du GDR GPL*, pages 37–38, Lille, France, June 2011.

# PATENTS, INVENTIONS AND COPYRIGHTS

- 2014 "Assets logiciels utilisés pour réaliser un Système de Diffusion d'Information - YourCast". Mireille Blay-Fornarino, Simon Urli, Sébastien Mosser and Daniel Romero. Agence de la Protection des Programmes (APP) IDDN.FR.001.320001.000.S.C.2014.000.31235, France.
- 2010 "Diffusion d'informations par composition - JSEDUITE". Sébastien Mosser, Mireille Blay-Fornarino, Michel Riveill and David Emsellem. Agence de la Protection des Programmes (APP) IDDN.FR.001.120009.000.S.P.2011.000.00000, France.

### **SOFTWARE AND DATASETS**

2023	S. Arulmohan, S. Mosser and MJ. Meurs. Qualified user s	stories (ground truth, Visual Narrator, GPT-
	<b>3.5, CRF)</b> . Version 1.0 (11/07/2023).	http://doi.org/10.5281/zenodo.8136975
2023	jPipe. A software language to justify CICD pipelines.	https://github.com/ace-design/jpipe
2023.	p4-lsp. A language server to support P4 developers.	https://github.com/ace-design/p4-lsp

### ADMINISTRATIVE RESPONSIBILITIES

### Department

07/23 - ,,	Software Engineering Curriculum Committee	(chair)
01/22	Undergraduate advisor for Software Engineering	(appointed)
05/23 - 08/23	Hiring committee, teaching-track & CLA	(member)
01/22 - 06/23	Software Engineering Curriculum Committee	(member)

### **Faculty**

11/22 - ... Ad hoc Selection Committee, Associate Dean – Academic.

### University

N/A

# **ADMINISTRATIVE RESPONSIBILITIES OUTSIDE OF MCMASTER (until 2022)**

#### **Department**

2020 - 2021	Vice-chair of the M.Sc. in Software Engineering (UQAM). Elected.
2019 - 2021	Deputy chair of the B.Sc. in Comp. Science and Soft. Engineering (UQAM). Elected.
2014 - 2018	Computer Science department executive board (UCA). Elected.
2013 - 2018	Director of the M.Sc. in Software Architecture (UCA). Appointed.
2012 - 2018	Coordinator of project-based teaching for software engineering (UCA). Appointed.
Faculty	
2018	Executive board of the Computer Science Research Center (I3S, UCA/CNRS). Appointed.
University	

2020 - 2021Comité Apprentissage Recherche (CAR, advising on digital strategy & IT). UQAM

# OTHER RESPONSIBILITIES

SE@MTL Together with J. Kienzle (McGill), F. Bordeleau (ÉTS) and H. Sahraoui (UdeM), we founded in 2019 the Software Engineering at Montreal community to animate the local research

ecosystem by organizing monthly seminars that bring together ~30 participants

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