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Date Submitted: 2023-10-25 14:54:50

Confirmation Number: 1687282

Template: NSERC_Researcher

Dr. Yann-Gaël Guéhéneuc

Correspondence language: French

Contact Information

The primary information is denoted by (*)

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Primary Affiliation (*)

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Concordia University
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Dr. Yann-Gaël Guéhéneuc

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes	Yes

Degrees

- 2003/6 Doctorate, Software Engineering, Université de Nantes / École des Mines de Nantes
Supervisors: Pierre Cointe, 2000/6 - 2003/6
- 1998/10 Master's Equivalent, Software Engineering, Université de Nantes
- 1998/10 Bachelor's Equivalent, Software Engineering, École des Mines de Nantes
- 1993/7 Diploma, Mathematics and Technology, Lycée Technologique Livet

Recognitions

- 2021/2 IEEE TCSE Most Influential Paper at SANER'21
IEEE
Distinction
For M. Abbas, F. Khomh, Y.-G. Guéhéneuc, and G. Antoniol ; An Empirical Study of the Impact of Two Antipatterns, Blob and Spaghetti Code, on Program Comprehension ; Proceedings of the 15th IEEE European Conference on Software Maintenance and Reengineering (CSMR'11), pp. 181-190, 2011.
- 2020/3 Outstanding Reviewer Award for Elsevier IST
Elsevier
Distinction
For my reviews of submitted manuscripts, more than 34 as of 23/10/20
- 2019/8 Excellent Research Award
Japan Information Processing Society
Distinction
For H. Washizaki, Y.-G. Guéhéneuc, and F. Khomh ; ProMeTA: A Taxonomy for Program Metamodels in Program Reverse Engineering ; Springer Empirical Software Engineering (EMSE), pp. 2323-2358, 2018.
- 2019/5 Best Paper Award at MOBILESoft'19
ACM
Distinction
For A. Belkhir, M. Abdellatif, R. Tighilt, N. Moha, Y.-G. Guéhéneuc, and É. Beaudry ; An Observational Study on the State of REST API Uses in Android Mobile Applications ; Proceedings of the 6th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft), pp. 66-75, 2019.

- 2019/1 IEEE TCSE Most Influential Paper at SANER'19
IEEE
Distinction
For F. Khomh, M. Di Penta, and Y.-G. Guéhéneuc ; An Exploratory Study of the Impact of Code Smells on Software Change-proneness ; Proceedings of the 16th IEEE Working Conference on Reverse Engineering (WCRE'09), pp. 75-84, 2009.
- 2018/12 Best Paper Award at APSEC'18
IEEE
Distinction
For G. Hecht, H. Mili, G. Elboussaidi, A. Boubaker, M. Abdellatif, Y.-G. Guéhéneuc, A. Shatnawi, J. Privat, and N. Moha ; Codifying Hidden Dependencies in Legacy J2EE Applications ; Proceedings of the 25th Asia-Pacific Software Engineering Conference (APSEC'18), pp. 305-314, 2018
- 2018/11 Best Student Paper Award at ICSOC'18
Springer
Distinction
For M. Abdellatif, G. Hecht, H. Mili, G. El Boussaidi, N. Moha, A. Shatnawi, J. Privat, and Y.-G. Guéhéneuc ; State of the Practice in Service Identification for SOA Migration in Industry ; Proceedings of the 16th Springer International on Service-Oriented Computing (ICSOC), pp. 634-650, 2018.
- 2018/9 Most Influential Paper Award at CASCON'18
ACM
Distinction
For G. Antoniol, K. Ayari, M. Di Penta, F. Khomh, and Y.-G. Guéhéneuc ; Is It a Bug or an Enhancement? A Text-based Approach to Classify Change Requests ; Proceedings of the 18th ACM Conference of the Center for Advanced Studies on Collaborative Research (CASCON), pp. 304-318, 2008.
- 2018/1 Most Influential Paper Award at SANER'18
IEEE
Distinction
For F. Khomh and Y.-G. Guéhéneuc ; Do Design Patterns Impact Software Quality Positively? ; Proceedings of the 12th IEEE European Conference on Software Maintenance and Reengineering (CSMR), pp. 274-278, 2008.

User Profile

Research Specialization Keywords: Software development, Software modelling, Program comprehension, Static analyses, Dynamic analyses, Historical analyses, Internet of Things, Service-oriented architecture

Employment

- 2017/8 Full Professor
Department of Computer Science and Software Engineering, Gina Cody School of Engineering and Computer Science, Concordia University
Full-time
Tenure Status: Tenure
- 2012/6 - 2017/8 Full Professor
Département de génie informatique et génie logiciel, École Polytechnique de Montréal
Full-time
Tenure Status: Tenure

2013/3 - 2014/4	Guest Professor Computer Science, Wonju Campus, Yonsei University, Republic of Korea Full-time Tenure Status: Non Tenure Track
2008/6 - 2012/5	Associate Professor Département de génie informatique et génie logiciel, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2008/5 - 2008/6	Associate Professor Département d'informatique et recherche opérationnelle, Université de Montréal Full-time Tenure Status: Tenure
2003/8 - 2008/5	Assistant Professor Département d'informatique et recherche opérationnelle, Université de Montréal Full-time Tenure Status: Tenure Track
1999/12 - 2001/5	Software Developer Object Technology International, Ottawa, ON, Canada
1998/12 - 2000/4	Invited Researcher School of Computer Science, Carleton University Full-time Tenure Status: Non Tenure Track

Leaves of Absence and Impact on Research

2020/3 - 2022/2	Special, Concordia University Main caregiver of my two daughters during the COVID-19 pandemic, 33% work reduction
2017/1 - 2020/12	Special, Concordia University Chronic illness, 20% work reduction

Research Funding History

Awarded [n=5]

2018/5 - 2025/4 Principal Investigator	Empirical Software Engineering for the Internet of Things, Research Chair Funding Sources: Canada Research Chairs (CRC) Tier 1 Total Funding - 1,400,000 Portion of Funding Received - 1,000,000 Funding Competitive?: Yes Principal Investigator : Yann-Gaël Guéhéneuc
2024/1 - 2024/12 Principal Investigator	ReAnimate: 2024 Summer School on Retro Gaming History, Critic, and Development, Grant Funding Sources: ACM SIGSOFT Support for Summer/Winter Schools in Software Engineering Total Funding - 3,000 Portion of Funding Received - 0

Funding Competitive?: Yes

Co-investigator : Carl Therrien; Cristiano Politowski; Fabio Petrillo;

Principal Investigator : Yann-Gaël Guéhéneuc

2023/5 - 2024/4

Principal Investigator

Building Multi-language, Multi-system Quality Models using Features and APIs, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Discovery Grant COVID-19 Extension with Funds

Total Funding - 48,000

Portion of Funding Received - 48,000

Funding Competitive?: No

Principal Investigator : Yann-Gaël Guéhéneuc

2020/1 - 2023/12

Co-investigator

Systems Analyses and Debugging for Program Comprehension, Grant

Funding Sources:

European Smalltalk User Group

Total Funding - 2,400

Portion of Funding Received - 0

Funding Competitive?: Yes

Institut National de Recherche en Informatique et Automatique (INRIA)

Équipe associée

Total Funding - 13,000

Portion of Funding Received - 0

Funding Competitive?: Yes

Co-investigator : Christopher Fuhrman; Nicolas Anquetil; Stéphane Ducasse; Yann-Gaël Guéhéneuc

2023/5 - 2023/8

Principal Investigator

Software Engineering Open Data Infrastructure, Scholarship

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS)

Globalink Research Award

Total Funding - 6,000

Portion of Funding Received - 0

Funding Competitive?: Yes

Co-investigator : Rodrigo Morales;

Principal Investigator : Yann-Gaël Guéhéneuc

Completed [n=19]

2018/5 - 2023/4

Principal Investigator

Building Multi-language, Multi-system Quality Models using Features and APIs, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Discovery Grant

Total Funding - 240,000

Portion of Funding Received - 240,000

Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2018/5 - 2023/4

Principal Investigator

Empirical Software Engineering for the Internet of Things, Grant

Funding Sources:

Canada Foundation for Innovation (CFI)

Canada Research Chair Tier 1

Total Funding - 282,135
Portion of Funding Received - 282,135
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2021/1 - 2023/4
Co-investigator

Ensuring Privacy while Reducing Asymmetry in the Customer-Merchant Relationship
(Assurer le respect de la vie privée tout en réduisant l'asymétrie dans la relation client-
commerçant in French), Grant

Funding Sources:

Laboratoire de recherches transdisciplinaires sur les écosystèmes informatiques
(LATECE)

Projet patrimonial

Total Funding - 32,000

Portion of Funding Received - 0

Funding Competitive?: Yes

Co-investigator : Jean Privat; Marc-Olivier Killijian; Sébastien Gambis; Yann-Gaël
Guéhéneuc

2020/1 - 2023/4
Principal Investigator

Interdisciplinary Research Collaboration between Quebec and Mexico to Support the
Creation, Operation, and Testing of Robust Software for the IoT (Collaboration de
recherche interdisciplinaire entre le Québec et le Mexique in French), Grant

Funding Sources:

Ministère des Relations internationales et de la Francophonie (MRIF)

Groupe de travail Québec-Mexique

Total Funding - 16,000

Portion of Funding Received - 5,434

Funding Competitive?: Yes

Co-investigator : Carlos Coello Coello; Rodrigo Morales;

Principal Investigator : Yann-Gaël Guéhéneuc

2020/1 - 2022/12
Co-investigator

Open Partnership Joint Research, Grant

Funding Sources:

Japan Society for the Promotion of Science (JSPS)

Open Partnership Joint Research

Total Funding - 35,000

Portion of Funding Received - 0

Funding Competitive?: Yes

Co-investigator : Yann-Gaël Guéhéneuc;

Principal Investigator : Hironori Washizaki

2020/7 - 2022/7
Principal Investigator

IoT Research: from Modelling to Implementing Smart Cities, Grant

Funding Sources:

Concordia University

Aid to Research-related Events

Total Funding - 5,000

Portion of Funding Received - 1,193

Funding Competitive?: Yes

Co-investigator : Ursula Eicker;

Principal Investigator : Yann-Gaël Guéhéneuc

2021/5 - 2022/4
Co-investigator

SPAR Lab: A Research Laboratory to Develop and Assess Smart Process Applications,
Grant

Funding Sources:

Canada Foundation for Innovation (CFI)
Innovation Fund
Total Funding - 1,806,058
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Ghizlane El Boussaidi; Halima Elbiaze; Mounir Boukadoum; Naouel Moha; Simon Bacon; Wessam Ajib; Yann-Gaël Guéhéneuc;

Principal Investigator : Hafedh Mili; Kim Lavoie

2018/2 - 2021/12
Co-investigator

An Intelligent Mixed-reality Simulation and Training Ecosystem for Extreme Environments, Grant

Funding Sources:

Consortium for Research and Innovation in Aerospace in Québec (CRIAQ)
AUT-1653_TRL4+
Total Funding - 5,259,495
Portion of Funding Received - 15,750
Funding Competitive?: Yes

Co-investigator : Andréa Lodi; Antoine Legrain; Caroline Aubé; David Meger; David Saussié; Giovanni Beltrame; Grégory Dudek; Inna Sharf; Yann-Gaël Guéhéneuc;

Co-knowledge User : Abdo Shabah (Humanitas Solutions); Hermann Brassard (Presagis); Martin Rivest (Thalès); Taïf Rahman (Elisen & Associates);

Principal Investigator : Gabriela Nicolescu

2020/6 - 2021/9
Principal Investigator

Verifying and Deploying 5G Cloud Infrastructure for Improved Logistic and Communication in Healthcare Facilities Dealing with COVID-19 Patients, Grant

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS)
Accelerate
Total Funding - 120,000
Portion of Funding Received - 120,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Abdo Shabah (Humanitas Solutions)

2020/9 - 2021/8
Principal Investigator

Real-time Surrogate Safety Analysis Solution using Lidar Technology Powered by Artificial Intelligence, Grant

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS)
Accelerate
Total Funding - 45,000
Portion of Funding Received - 45,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Asad Lesani (BlueCity Technology)

2018/4 - 2019/12
Principal Investigator

Empirical Evaluation of Software Development Environments (Évaluation empirique des environnements de développement logiciel in French), Grant

Funding Sources:

Agence Universitaire de la Francophonie (AUF)
Support for Interuniversity Solidarity Projects in the Americas (PRISA)

Total Funding - 15,895
Portion of Funding Received - 15,244
Funding Competitive?: Yes
Co-investigator : Marcelo Soares Pimenta; Marco Tulio Valente; Regina Motz;
Principal Investigator : Yann-Gaël Guéhéneuc

2017/9 - 2019/8
Principal Investigator

Startup, Grant
Funding Sources:
Concordia University
Startup
Total Funding - 75,000
Portion of Funding Received - 75,000
Funding Competitive?: No
Principal Investigator : Yann-Gaël Guéhéneuc

2018/5 - 2019/4
Principal Investigator

Applying Machine Learning Techniques to the Identification and Correction of Anomalies in Transaction Sale Data, Grant
Funding Sources:
Mathematics of Information Technology and Complex Systems (MITACS)
Accelerate
Total Funding - 3,000
Portion of Funding Received - 3,000
Funding Competitive?: Yes
Co-investigator : Foutse Khomh;
Principal Investigator : Yann-Gaël Guéhéneuc;
Principal Knowledge User : Bernd Lehnert (SAP)

2014/5 - 2019/4
Principal Investigator

Patterns in Mixed-language Systems, Research Chair
Funding Sources:
Canada Research Chairs (CRC)
Tier 2
Total Funding - 500,000
Portion of Funding Received - 500,000
Funding Competitive?: Yes
Principal Investigator : Yann-Gaël Guéhéneuc

2014/5 - 2018/12
Co-investigator

Development of Context-aware Software Reuse Techniques (REUSE), Grant
Funding Sources:
Ministry of Science, ICT and Future Planning (MSIP)
National Research and Development Project
Total Funding - 30,000
Portion of Funding Received - 0
Funding Competitive?: Yes
Co-investigator : Yann-Gaël Guéhéneuc;
Principal Investigator : Young-kwang Nam

2018/5 - 2018/8
Principal Investigator

Low Resource Open Source Web Browser, Scholarship
Funding Sources:
Natural Sciences and Engineering Research Council of Canada (NSERC)
Undergraduate Student Research Award (USRA)
Total Funding - 6,000

Portion of Funding Received - 6,000

Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2015/5 - 2018/4

Principal Investigator

Service-oriented Architectural Reengineering of Object-oriented Legacy Software (Réingénierie architecturale orientée services de logiciels légataires orientés objet in French), Grant

Funding Sources:

Fonds de recherche du Québec - Nature et technologies (FRQNT)

Team Grant

Total Funding - 144,000

Portion of Funding Received - 144,000

Funding Competitive?: Yes

Co-investigator : Ghizlane El Boussaidi; Hafedh Mili; Naouel Moha;

Principal Investigator : Yann-Gaël Guéhéneuc

2012/5 - 2018/4

Principal Investigator

Building Practical Software Quality Models, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Discovery Grant

Total Funding - 204,000

Portion of Funding Received - 204,000

Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2012/5 - 2017/4

Principal Investigator

ICD Management, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Collaborative Research and Development Grant (CRD)

Total Funding - 132,000

Portion of Funding Received - 132,000

Funding Competitive?: Yes

Co-investigator : Roger Champagne; Yvan Labiche;

Collaborator : Claire Mangado; Giuliano Antoniol; John Mullins;

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Pierre Labrèche (CMC Electronics)

Under Review [n=6]

2024/5 - 2029/4

Co-applicant

Centre for Systems, Technologies and Applications for Radiofrequency and Communications (Centre pour les systèmes, technologies et applications en radiofréquences et communications, STARaCom, in French), Grant

Funding Sources:

Fonds de recherche du Québec - Nature et technologies (FRQNT)

Strategic Cluster

Total Funding - 500,000

Portion of Funding Received - 0

Funding Competitive?: Yes

Co-applicant : Yann-Gaël Guéhéneuc and 56 others;

Principal Applicant : David Plant

- 2024/5 - 2027/4
Co-applicant Interuniversity Research Center on Digital Humanities (Centre de recherche interuniversitaire sur les humanités numériques, CIRHN, in French), Grant
- Funding Sources:**
Fonds de recherche du Québec - Société et culture (FRQSC)
Strategic Cluster
Total Funding - 300,000
Portion of Funding Received - 0
Funding Competitive?: Yes
- Co-applicant : Yann-Gaël Guéhéneuc and 70 others;
Principal Applicant : Michael Eberle-Sinatra
- 2024/1 - 2025/12
Co-investigator International Community Energy Living Labs (ICELL), Grant
- Funding Sources:**
Canada First Research Excellence Fund
Electrification for Resilient Decarbonized Communities - Seed Grants
Total Funding - 250,000
Portion of Funding Received - 0
Funding Competitive?: Yes
- Co-investigator : Aphrodite Salas; Caroline Hachem-Vermette; Ivan Kantor; Luiz Lopes; Mohamed Ouf; Yann-Gaël Guéhéneuc;
Principal Investigator : Ursula Eicker
- 2024/1 - 2025/12
Co-investigator Desjardins Living Lab: Building Retrofit from Design to Implementation towards Prosumer and Grid-support Services, Grant
- Funding Sources:**
Canada First Research Excellence Fund
Electrification for Resilient Decarbonized Communities - Seed Grants
Total Funding - 290,000
Portion of Funding Received - 0
Funding Competitive?: Yes
- Co-investigator : Nizar Bouguila; Yann-Gaël Guéhéneuc;
Collaborator : Bernard Bitar; Mayi Kato; Ursula Eicker;
Principal Investigator : Manar Aymari
- 2024/1 - 2025/12
Principal Investigator Digital Data Analysis and Modeling Platform for Decarbonizing the Built Environment, Grant
- Funding Sources:**
Canada First Research Excellence Fund
Electrification for Resilient Decarbonized Communities - Seed Grants
Total Funding - 300,000
Portion of Funding Received - 0
Funding Competitive?: Yes
- Co-investigator : Francesco Ciari; Liangzhu Wang; Michaël Kummert; Ursula Eicker;
Principal Investigator : Yann-Gaël Guéhéneuc
- 2024/1 - 2025/12
Principal Investigator Interdisciplinary Research Collaboration between Quebec and Mexico on the Use of Multi-objective Optimisation to Improve API of IoT Frameworks (Collaboration de recherche interdisciplinaire entre le Québec et le Mexique in French), Grant
- Funding Sources:**
Ministère des Relations internationales et de la Francophonie (MRIF)

Groupe de travail Québec-Mexique
 Total Funding - 16,000
 Portion of Funding Received - 0
 Funding Competitive?: Yes
 Co-investigator : Carlos Coello Coello; Rodrigo Morales;
 Principal Investigator : Yann-Gaël Guéhéneuc

Student/Postdoctoral Supervision

Bachelor's [n=4]

2020/1 - 2020/4
 Principal Supervisor Pascal Archambault (Completed) , Concordia University
 Thesis/Project Title: *Automated Bill Recognition System (Internship)*
 Present Position: Ph.D. Student at Université de Montréal, QC, Canada

2019/5 - 2019/6
 Principal Supervisor Nellybett Andrea (Completed) , Concordia University
 Thesis/Project Title: *Kapua and Kura (Internship)*
 Present Position: Living in Toronto, ON, Canada

2018/5 - 2018/8
 Principal Supervisor Pascal Archambault (Completed) , Concordia University
 Thesis/Project Title: *Open-source Web Browser for Embedded/Low-consumption Hardware (Internship with NSERC USRA)*
 Present Position: Ph.D. Student at Université de Montréal, QC, Canada

2017/6 - 2017/8
 Principal Supervisor Raphaël Bissonnette (Completed) , Concordia University
 Thesis/Project Title: *Open Data Infrastructure (Internship)*
 Present Position: Unknown

Bachelor's Equivalent [n=9]

2023/7 - 2023/8
 Principal Supervisor Mathis Goichon (Completed) , Institut national des sciences appliquées de Lyon, France
 Thesis/Project Title: *Servicisation and Web Interface for Ptidej (Internship)*
 Present Position: Software engineer at Orange

2022/7 - 2022/9
 Principal Supervisor Timothé Verstraete (Completed) , Institut national des sciences appliquées de Lyon, France
 Thesis/Project Title: *WIMP Project (Internship)*
 Present Position: DevOps and Cloud Engineer at AVISTO, France

2019/7 - 2019/11
 Principal Supervisor Thibault Lamonier (Completed) , École des hautes études d'ingénieur, Lille, France
 Thesis/Project Title: *Multi-language Parsers for PADL (Internship)*
 Present Position: Consultant Cyber Risk and Security, France

2019/4 - 2019/7
 Principal Supervisor Palmyre Würtz-Baroth (Completed) , École Polytechnique, Paris, France
 Thesis/Project Title: *P-MARt for Multi-language Patterns (Internship)*
 Present Position: Tool and Operations Project Manager at SNCF, France

2017/6 - 2017/8
 Principal Supervisor Jean Rublé (Completed) , École nationale supérieure d'informatique pour l'industrie et l'entreprise, Évry, France
 Thesis/Project Title: *Linguistic Antipatterns (Internship)*
 Present Position: DevOps Engineer at Orange, Paris, France

2017/5 - 2017/8
 Principal Supervisor Dipti Ranjan Sahu (Completed) , Indian Institute of Technology Bombay, Mumbai, MH, India
 Thesis/Project Title: *Open Data Infrastructure (Internship with MITACS Globalink)*
 Present Position: Unknown

- 2017/5 - 2017/8
Principal Supervisor Julien Hebmann (Completed) , Polytech Montpellier, France
Thesis/Project Title: *JavaScript in NetSurf (Internship)*
Present Position: Software Engineer in Montpellier, France
- 2017/5 - 2018/8
Principal Supervisor Niverthan Panchalingam (Completed) , Polytech Paris, France
Thesis/Project Title: *JavaScript in NetSurf (Internship)*
Present Position: Functional Verification and Validation Engineer at MBDA, Le Plessis-Robinson, France
- 2017/1 - 2017/5
Principal Supervisor Zichao Deng (Completed) , Nanyang Technological University, Singapore
Thesis/Project Title: *Improving Brunch (Internship with MITACS Globalink)*
Present Position: Unknown

Master's Equivalent [n=2]

- 2019/5 - 2019/6
Principal Supervisor Gleison Brito (Completed) , Federal University of Minas Gerais, Belo Horizonte, MG, Brazil
Thesis/Project Title: *REST and GraphQL (Internship)*
Present Position: Technical Education Teacher at Proz, São Paulo, SP, Brazil
- 2019/5 - 2019/8
Principal Supervisor João Eduardo Montandon (Completed) , Federal University of Minas Gerais, Belo Horizonte, MG, Brazil
Thesis/Project Title: *Developers' Characteristics (Internship)*
Present Position: Seeking Research Position at a University in Portugal

Master's non-Thesis [n=6]

- 2018/9 - 2019/8
Principal Supervisor Vaibhav Jain (Completed) , Concordia University
Thesis/Project Title: *MQTT for IoT (Informal Collaboration)*
Present Position: Senior Software Engineer at Wayfair, Toronto, ON, Canada
- 2018/5 - 2018/8
Principal Supervisor Satnam Singh (Completed) , Concordia University
Thesis/Project Title: *Seodin: An Open Data Infrastructure (Internship)*
Present Position: Senior ML Engineer at OpenText, Waterloo, ON, Canada
- 2018/5 - 2018/8
Principal Supervisor Adrien Poupa (Completed) , Concordia University
Thesis/Project Title: *A C# PADL Creator (Internship)*
Present Position: Technical Lead at Turbulent, Montréal, QC, Canada
- 2018/5 - 2018/8
Principal Supervisor Urmil Kansara (Completed) , Concordia University
Thesis/Project Title: *A Java Implementation of the Little Computer People (Internship)*
Present Position: Technical Lead at Tech Mahindra, Toronto, ON, Canada
- 2018/5 - 2018/8
Principal Supervisor Vaibhav Jain (Completed) , Concordia University
Thesis/Project Title: *A Java Implementation of the Little Computer People (Internship)*
Present Position: Senior Software Engineer at Wayfair, Toronto, ON, Canada
- 2018/5 - 2018/8
Principal Supervisor Tejas Sadrani (Completed) , Concordia University
Thesis/Project Title: *A Java Implementation of the Little Computer People (Internship)*
Present Position: Software Engineer at PointClickCare, Mississauga, Ontario, Canada

Master's Thesis [n=9]

- 2022/1 - 2023/12
Principal Supervisor Gabriel Ullmann (In Progress) , Concordia University
Thesis/Project Title: **Studying Game Engine Architectures**
Present Position: M.Sc. Student
- 2020/1 - 2023/12
Principal Supervisor Jianbin Lai (In Progress) , Concordia University
Thesis/Project Title: **CoAP and MQTT IoT APIs Comparisons**
Present Position: M.Sc. Student

- 2020/1 - 2021/11
Principal Supervisor
Mohammad Nazemi (Completed) , Concordia University
Thesis/Project Title: **Implementing a Library to Calculate Surrogate Safety Measures** (MITACS Funding)
Present Position: Software engineer, BlueCity Technology, Montréal, QC, Canada
- 2019/9 - 2021/2
Co-Supervisor
Rafik Tighilt (Completed) , UQÀM
Thesis/Project Title: **Assistance à la maintenance et à l'évolution des logiciels via l'identification automatique d'anti-patrons dans les architectures à base de microservices** (FRQNT Master's Research Scholarship)
Present Position: Software engineer, Morgan Stanley, Montréal, QC, Canada
- 2019/6 - 2021/8
Principal Supervisor
Tuan Van Tran (Completed) , Concordia University
Thesis/Project Title: **Formalising Solutions to REST API Practices as Design (Anti)patterns**
Present Position: Software engineer, CoreLogic, Toronto, ON, Canada
- 2017/9 - 2018/12
Co-Supervisor
Antoine Barbez (Completed) , Polytechnique Montréal
Thesis/Project Title: **Deep Learning Structural and Historical Features for Anti Patterns Detection**
Present Position: Computer Vision Research Engineer, Parkopedia, Montréal, QC, Canada
- 2016/9 - 2018/5
Co-Supervisor
Atefeh Meshinchi (Completed) , Polytechnique Montréal
Thesis/Project Title: **QoS-aware Adaptive Resource Allocation Framework in SDN-based IoT Middleware**
Present Position: Senior Technical Manager, Bell IoT, Montréal, QC, Canada
- 2016/5 - 2018/1
Co-Supervisor
Rim Ben Dhaou (Completed) , École de technologie supérieure
Thesis/Project Title: **Modélisation de systèmes avioniques avec AADL** (NSERC CRD Funding)
Present Position: Software Consultant, Nexio, Montréal, QC, Canada
- 2016/5 - 2017/12
Co-Supervisor
Mahdis Zolfagharinia (Completed) , Polytechnique Montréal
Thesis/Project Title: **The Impact of Operating Systems and Environments on Build Results**
Present Position: ERP Project Manager, Lamour, Montréal, QC, Canada
- Doctorate [n=17]**
- 2022/9 - 2026/8
Principal Supervisor
Farideh Sanei (In Progress) , Concordia University
Thesis/Project Title: **Quality of IoT Systems**
Present Position: Ph.D. Student
- 2022/9 - 2026/8
Co-Supervisor
Sikander Ejaz (In Progress) , Concordia University
Thesis/Project Title: **Design and Implementation of an IoT Middleware for Cities of the Future**
Present Position: Ph.D. Student
- 2022/6 - 2022/12
Principal Supervisor
José Eduardo Cardoza Plata (Completed) , Instituto Politécnico Nacional, Mexico City, Mexico
Thesis/Project Title: *WIMP Project (Internship)*
Present Position: Ph.D. Student
- 2022/1 - 2025/12
Co-Supervisor
Alireza Adli (In Progress) , Concordia University
Thesis/Project Title: **Developing a Framework to Assess Building- and Mobility-related Carbon Emissions in a Neighbourhood**
Present Position: Ph.D. Student

- 2021/9 - 2025/8
Co-Supervisor
Nour Khezemi (In Progress) , ÉTS
Thesis/Project Title: **Study of IoT System Architectural Styles and their Quality Requirements**
Present Position: Ph.D. Student
- 2021/5 - 2025/12
Principal Supervisor
Peter Yefi (In Progress) , Concordia University
Thesis/Project Title: **Designing IoT Systems for Sustainability**
Present Position: Ph.D. Student
- 2021/5 - 2025/4
Principal Supervisor
Jean Baptiste Minani (In Progress) , Concordia University
Thesis/Project Title: **Testing IoT Systems**
Present Position: Ph.D. Student
- 2021/1 - 2024/12
Co-Supervisor
Imen Trabelsi (In Progress) , ÉTS
Thesis/Project Title: **Unsupervised Learning for Microservices Migration**
Present Position: Ph.D. Student
- 2020/1 - 2025/12
Co-Supervisor
Belal Nwiran (In Progress) , Concordia University
Thesis/Project Title: **Action Recognition in the Edge for Drone Control**
Present Position: Ph.D. Student
- 2018/5 - 2022/6
Principal Supervisor
Cristiano Politowski (Completed) , Concordia University
Thesis/Project Title: **Improving Video Game Balance Testing Using Autonomous Agents**
Present Position: Post-doc., GEODES, DIRO, Université de Montréal, QC, Canada
- 2017/9 - 2023/5
Co-Supervisor
Layan Etaïwi (Completed) , Polytechnique Montréal
Thesis/Project Title: **Consensus-based Recommendation Technique for Software Engineering Applications**
Present Position: Job Seeker
- 2017/9 - 2023/5
Principal Supervisor
William Flageol (Completed) , Concordia University
Thesis/Project Title: **Improving Object Oriented Programming by Integrating Language Features to Support Immutability** (FRQNT Doctoral Research Scholarship)
Present Position: Lecturer, Université du Québec à Trois-Rivières, QC, Canada
- 2017/5 - 2017/8
Co-Supervisor
Fatima Sabir (Completed) , COMSATS Institute of Information Technology Lahore
Thesis/Project Title: **Detection of Antipatterns from Service Oriented Architecture**
Present Position: Professor, University of the Punjab, PB, Pakistan
- 2016/5 - 2021/7
Principal Supervisor
Manel Abdellatif (Completed) , Polytechnique Montréal
Thesis/Project Title: **Service Identification to Support the Migration of Legacy Systems to SOA** (FRQNT Doctoral Research Scholarship)
Present Position: Institutional Researcher, École de technologie supérieure, Montréal, QC, Canada
- 2015/9 - 2017/4
Co-Supervisor
Fabio Petrillo (Completed) , Universidade Federal do Rio Grande do Sul
Thesis/Project Title: **Swarm Debugging: the Collective Debugging Intelligence of the Crowd**
Present Position: Professor, École de technologie supérieure, Montréal, QC, Canada
- 2015/1 - 2019/7
Principal Supervisor
Zeinab Kermansaravi (Completed) , Polytechnique Montréal
Thesis/Project Title: **Linguistic Anti-patterns: Impact Analysis on Code Quality**
Present Position: Job Seeker
- 2014/9 - 2017/12
Co-Supervisor
Rubén Saborido-Infantes (Completed) , Polytechnique Montréal
Thesis/Project Title: **Assisting Developers and Users in Developing and Choosing Efficient Mobile Device Apps**
Present Position: Researcher, Department of Computer Science and Programming Languages, University of Malaga, Spain

Post-doctorate [n=7]

- 2022/5 - 2022/12
Principal Supervisor Majid Babaei (Completed) , Concordia University
Thesis/Project Title: **Automated Robustness Testing Framework for State Machines**
Present Position: Faculty Lecturer, Technology & Innovation, School of Continuing Studies, McGill University, Montréal, QC, Canada
- 2020/3 - 2020/7
Principal Supervisor Benjamin Benni (Completed) , Concordia University
Thesis/Project Title: **Software Engineering Drones for Emergency Responses**
Present Position: Software Engineer, Instant System, Biot, France
- 2020/3 - 2021/12
Principal Supervisor Fatima Sabir (Completed) , Concordia University
Thesis/Project Title: **Software Engineering Drones for Emergency Responses**
Present Position: Professor, University of the Punjab, PB, Pakistan
- 2018/6 - 2018/12
Principal Supervisor Rodrigo Morales (Completed) , Concordia University
Thesis/Project Title: **Improving Software Quality of IoT Systems through Refactorings**
Present Position: Lecturer, Concordia University, Montréal, QC, Canada
- 2018/6 - 2018/12
Principal Supervisor Rubén Saborido-Infantes (Completed) , Concordia University
Thesis/Project Title: **Search Based Software Engineering for IoT Software Optimisation**
Present Position: Researcher, Department of Computer Science and Programming Languages, University of Malaga, Spain
- 2017/9 - 2018/12
Co-Supervisor Md Saidur Rahman (Completed) , Polytechnique Montréal
Thesis/Project Title: **Applying Machine Learning Techniques to the Identification and Correction of Anomalies in Data**
Present Position: Senior R&D Data Scientist, Desjardins, Montréal, QC, Canada
- 2016/12 - 2017/7
Co-Supervisor Anas Shatnawi (Completed) , UQÀM
Thesis/Project Title: **Service-oriented Reengineering**
Present Position: Senior R&D Software Engineer, Berger-Levrault, Montpellier, France

Diploma [n=1]

- 2022/6 - 2022/7
Principal Supervisor Martin Lecourt (Completed) , Lycée Louis-le-Grand, France
Thesis/Project Title: *Observational Internship (Internship)*
Present Position: Diploma Student

Research Associate [n=2]

- 2023/5 - 2023/6
Principal Supervisor Elhachemi Alikacem (Completed) , Concordia University
Thesis/Project Title: **Development of a Mock-up Factory**
Present Position: Lecturer at École de technologie supérieure, Montréal, QC, Canada
- 2017/9 - 2018/8
Principal Supervisor Fábio Petrillo (Completed) , Concordia University
Thesis/Project Title: **Alleviating the New Software Engineering Crisis**
Present Position: Professor, École de technologie supérieure, Montréal, QC, Canada

Event Administration

- 2023/9 - 2024/7
Co-organiser, 3rd International Workshop on Automated Software Engineering for Computer Games (ASE4Games'24) with ASE'24, Workshop, 2024/7 - 2024/7
- 2023/5 - 2024/6
Co-organiser and Lecturer, ReAnimate: 2024 Summer School on Retro Gaming History, Critic, and Development, Course, 2024/6 - 2024/6

2023/9 - 2024/4	Co-organiser, 6th International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'24) with ICSE'24, Workshop, 2024/4 - 2024/4
2019/9 - 2024/4	Steering Committee Member, International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT), Workshop, 2019/9 - 2024/4
2022/9 - 2023/5	Co-organiser, 5th International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'23) with ICSE'23, Workshop, 2023/5 - 2023/5
2021/11 - 2022/10	Co-organiser, 2nd International Workshop on Automated Software Engineering for Computer Games (ASE4Games'22) with ASE'22, Workshop, 2022/10 - 2022/10
2021/9 - 2022/5	Co-organiser, 4th International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'22) with ICSE'22, Workshop, 2022/5 - 2022/5
2020/11 - 2021/11	Co-organiser, 1st International Workshop on Automated Software Engineering for Computer Games (ASE4Games'21) with ASE'21, Workshop, 2021/11 - 2021/11
2020/9 - 2021/5	Co-organiser, 3rd International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'21) with ICSE'21, Workshop, 2021/5 - 2021/5
2019/4 - 2020/12	Program Co-chair, 28th IEEE/ACM International Conference on Program Comprehension (ICPC'20), Conference, 2020/7 - 2020/7
2019/9 - 2020/5	Co-organiser, 2nd International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'20) with ICSE'20, Workshop, 2020/5 - 2020/5
2017/5 - 2019/12	General Chair, 27th IEEE/ACM International Conference on Program Comprehension (ICPC'19), Conference, 2019/5 - 2019/5
2018/9 - 2019/5	Co-organiser, 1st International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'19) with ICSE'19, Workshop, 2019/5 - 2019/5
2015/5 - 2018/5	Steering Committee Member, International Conference on Program Comprehension (ICPC), Conference, 2015/5 - 2018/5

Editorial Activities

2020/5 - 2022/12 Editor in Chief, MDPI IoT, Journal

Organizational Review Activities

2018/1 - 2026/12	Commissioner, Bureau de coopération interuniversitaire Committee for the Evaluation of Program Proposals (<i>Commission d'évaluation des projets de programmes</i> in French)
2022/10 - 2023/9	Co-chair, IEEE CS TCSE Most Influential Paper Award At the 39th IEEE International Conference on Software Maintenance and Evolution (ICSME'23)
2023/3 - 2023/6	External Referee, Singapore Management University, Singapore Evaluated a dossier for a promotion to Full Professor

2023/5 - 2023/5	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2023/1 - 2023/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2022/4 - 2022/11	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2022/1 - 2022/6	External Referee, Université de Namur Evaluated a dossier for a promotion to Full Professor
2022/4 - 2022/4	External Referee, Institut National de Recherche en Informatique et Automatique (INRIA) Provided an external report to support a secondment (détachement in French)
2022/1 - 2022/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2021/8 - 2021/9	Reviewer - Alliance Grant, Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2021/7 - 2021/8	External Referee, Concordia University Provided an external report for the Valedictorian Prize
2021/5 - 2021/7	External Referee, University of Alberta Evaluated a dossier for a promotion to Associate Professor
2020/5 - 2021/5	Jury Member, École Nationale des Sciences de l'Informatique, Tunisia For an accreditation to supervise research (<i>Habilitation à diriger des recherches</i> in French)
2021/4 - 2021/4	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2021/2 - 2021/2	Reviewer, Canada Research Chairs Provided an external report
2021/2 - 2021/2	Nominator, ACM Mining Software Repositories Conference Series (MSR) Nominated a candidate for the Ric Holt Early Career Achievement Award
2020/2 - 2020/6	External Foreign Expert, Department of Computer Science, COMSATS University Islamabad, PB, Pakistan Evaluated a dossier for a promotion to Associate Professor on Permanent Tenure
2020/3 - 2020/4	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2020/1 - 2020/1	Reviewer, Swiss National Science Foundation Provided external reports
2020/1 - 2020/1	External Referee, Queen's University at Kingston, ON, Ontario, Canada Evaluated a dossier for the Distinguished University Professor program
2020/1 - 2020/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2019/7 - 2019/9	Promotion Referee, Carleton University, Ottawa, ON, Canada Evaluated a dossier for a promotion to Associate Professor

2019/5 - 2019/9	External Foreign Expert, Department of Computer Science, COMSATS University Islamabad, PB, Pakistan Evaluated a dossier for a promotion to Associate Professor on Permanent Tenure
2019/4 - 2019/8	Jury Member, Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA) For an accreditation to supervise research (<i>Habilitation à diriger des recherches</i> in French)
2015/2 - 2019/5	Co-creator, Polytechnique Montréal, QC, Canada Joint Ph.D. program in Software Engineering between Polytechnique Montréal and Université de Montréal
2018/11 - 2019/1	External Foreign Expert, Department of Computer Science, COMSATS University Islamabad, PB, Pakistan Evaluated a dossier for a promotion to Associate Professor on Permanent Tenure
2018/11 - 2019/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2018/8 - 2018/11	External Referee, University of Calgary, AB, Canada Evaluated a dossier for a promotion to Full Professor
2018/8 - 2018/9	External Reviewer, University of Saskatchewan Evaluated a dossier for a promotion to Full Professor
2018/2 - 2018/4	Reviewer, Canada Research Chairs Provided an external report
2018/2 - 2018/3	Reviewer - CRD Grant, Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2018/1 - 2018/3	Nominator, CS-Can/Info-Can Nominated a candidate for the Outstanding Young Computer Science Researcher prize
2018/1 - 2018/2	Nominator, ACM Mining Software Repositories Conference Series (MSR) Nominated a candidate for the Early Career Achievement Award
2017/5 - 2017/5	External Referee, Singapore Management University, Singapore Evaluated a dossier for a promotion to Associate Professor
2017/2 - 2017/2	Referee, Heidelberg Laureate Forum Provided an external report to support the application of a young researcher

International Collaboration Activities

2020/1 - 2024/12	Co-investigator, Mexico Research collaborations with Carlos Colleo Colleo at the Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico City, Mexico (<i>Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional</i> in Spanish)
2014/6 - 2024/12	Co-investigator, Japan Research collaborations with Hironori Washizaki at the Waseda University, Tokyo, Japan
2019/5 - 2023/12	Co-investigator, France Associated Team (<i>Équipe associée</i> in French) with Nicolas Anquetil and Stéphane Ducasse from the RMod Team at INRIA Lille, France

Committee Memberships

2023/9 - 2024/6	Committee Member, Program Committee, 40th IEEE International Conference on Software Maintenance and Evolution (ICSME'24)
2024/1 - 2024/2	Committee Member, Program Committee, 19th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE'24)
2023/11 - 2023/12	Committee Member, Program Committee, 11th International Conference on Mobile Software Engineering and Systems (MOBILESoft'23)
2023/3 - 2023/9	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 2 articles (with multiple revisions)
2023/7 - 2023/8	Committee Member, Program Committee, 30th Asia-Pacific Software Engineering Conference (APSEC'23)
2023/3 - 2023/8	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 1 articles (with multiple revisions)
2023/4 - 2023/6	Committee Member, Program Committee, 39th IEEE International Conference on Software Maintenance and Evolution (ICSME'23)
2023/5 - 2023/5	Committee Member, Program Committee, 3rd International Workshop on MDE for Smart IoT Systems (MeSS'23)
2022/2 - 2023/5	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 3 articles (with multiple revisions)
2018/9 - 2023/4	Chair, Department Hiring Committee for a Canada Research Chair, Concordia University
2018/9 - 2023/4	Chair, Department Hiring Committee for a Gina Cody Research Chair, Concordia University
2023/3 - 2023/3	Committee Member, Program Committee, 12th International Workshop on the Reliability of Intelligent Environments (WoRIE'23)
2023/3 - 2023/3	Committee Member, Program Committee, 11th International Workshop of Eye Movements in Programming (EMIP'23)
2023/1 - 2023/3	Committee Member, Reviewers, Springer Journal of Computer Science and Technology (JCST) Reviewed 1 article
2021/2 - 2022/11	Committee Member, Reviewers, IEEE Transactions on Software Engineering (TSE) Reviewed 2 articles (with multiple revisions)
2022/7 - 2022/8	Committee Member, Program Committee, 29th Asia-Pacific Software Engineering Conference (APSEC'22)
2022/2 - 2022/8	Committee Member, Reviewers, AITO Journal of Object Technology (JOT) Reviewed 2 articles
2021/12 - 2022/7	Committee Member, Reviewers, Wiley Journal of Software: Practice and Experience (JSPE) Reviewed 1 article (with multiple revisions)
2021/5 - 2022/7	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 2 articles (with multiple revisions)
2022/6 - 2022/6	Committee Member, Reviewers, Springer Software Quality Journal (SQJ) Reviewed 1 article

2022/5 - 2022/5	Committee Member, Program Committee, 2nd International Workshop on MDE for Smart IoT Systems (MeSS'22)
2022/1 - 2022/3	Committee Member, Reviewers, IEEE Transactions on Dependable and Secure Computing (TDSC) Reviewed 1 article
2022/2 - 2022/2	Committee Member, Program Committee, 10th International Workshop of Eye Movements in Programming (EMIP'22)
2021/12 - 2022/2	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 2 articles (with multiple revisions)
2021/10 - 2022/2	Committee Member, Reviewers, Elsevier Journal of Computer Languages (COLA) Reviewed 1 article
2021/4 - 2022/2	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 3 articles (with multiple revisions)
2021/10 - 2021/12	Committee Member, New Ideas and Emerging Results (NIER) Program Committee, 44th IEEE/ACM International Conference on Software Engineering (ICSE'22)
2021/9 - 2021/11	Committee Member, Reviewers, AITO Journal of Object Technology (JOT) Reviewed 1 article
2020/9 - 2021/11	Committee Member, Reviewers, ACM Transactions on Software Engineering and Methodology (TOSEM) Reviewed 1 article (with multiple revisions)
2021/8 - 2021/8	Committee Member, Program Committee, 28th Asia-Pacific Software Engineering Conference (APSEC'21)
2020/11 - 2021/7	Committee Member, Reviewers, Springer Arabian Journal for Science and Engineering (AJSE) Reviewed 1 article (with multiple revisions)
2021/6 - 2021/6	Committee Member, Program Committee, 5th International Conference on Computer Science and Application Engineering (CSAE'21)
2021/6 - 2021/6	Committee Member, Reviewers, IEEE Access Reviewed 1 article
2021/5 - 2021/6	Committee Member, Reviewers, Springer Journal of Ambient Intelligence and Humanized Computing (JAIHC) Reviewed 1 article (with multiple revisions)
2021/5 - 2021/5	Committee Member, Program Committee, 1st International Workshop on MDE for Smart IoT Systems (MeSS'21)
2021/3 - 2021/4	Committee Member, Program Committee, 10th International Workshop on the Reliability of Intelligent Environments (WoRIE'21)
2021/1 - 2021/4	Committee Member, Reviewers, Elsevier Science of Computer Programming (SCP) Reviewed 1 article (with multiple revisions)
2020/3 - 2021/4	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 1 article (with multiple revisions)
2021/3 - 2021/3	Committee Member, Petro-Canada Young Inovator Award (PCYIA), Concordia University
2021/3 - 2021/3	Committee Member, Program Committee, 8th International Workshop of Eye Movements in Programming (EMIP'21)
2021/3 - 2021/3	Committee Member, University Research Awards (URAs), Concordia University

2021/3 - 2021/3	Committee Member, Program Committee, 45rd IEEE Computer Software and Applications Conference (COMPSAC'21)
2021/3 - 2021/3	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 1 article (for a special issue)
2021/2 - 2021/3	Committee Member, RR (Registered Report) Program Committee, 18th International Working Conference on Mining Software Repositories (MSR'21)
2021/1 - 2021/2	Committee Member, Program Committee, 29th IEEE/ACM International Conference on Program Comprehension (ICPC'21)
2020/8 - 2020/9	Committee Member, Program Committee, 19th International Conference on Software and System Engineering (ICSR'20)
2020/7 - 2020/9	Committee Member, Program Committee, 27th Asia-Pacific Software Engineering Conference (APSEC'20)
2020/3 - 2020/9	Committee Member, Reviewers, Elsevier Expert Systems With Applications (ESWA) Reviewed 1 articles (with multiple revisions)
2020/1 - 2020/9	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 1 article (with multiple revisions)
2019/4 - 2020/9	Committee Member, Reviewers, Wiley Journal of Software: Evolution and Process (JSEP) Reviewed 3 articles (with multiple revisions)
2020/5 - 2020/5	Committee Member, Program Committee, 4th International Workshop on Model-Driven Engineering for the Internet-of-Things (MDE4IoT'20)
2020/1 - 2020/5	Committee Member, Best Thesis Award, CNRS GDR GPL Programming and Software Engineering Research Cluster of CNRS, France (<i>Groupement de Recherche Génie de la Programmation et du Logiciel</i> in French)
2019/6 - 2020/5	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 2 articles (with multiple revisions)
2020/2 - 2020/3	Committee Member, Program Committee, 44th IEEE Computer Software and Applications Conference (COMPSAC'20)
2020/2 - 2020/3	Committee Member, Research Award, Université du Québec à Montréal, QC, Canada
2020/2 - 2020/2	Committee Member, Program Committee, 7th International Workshop of Eye Movements in Programming (EMIP'20)
2019/8 - 2020/1	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 2 articles (with multiple revisions)
2019/3 - 2020/1	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 1 article (with multiple revisions)
2019/3 - 2020/1	Committee Member, Reviewers, ACM Computing Surveys (CSUR) Reviewed 1 article (with multiple revisions)
2019/12 - 2019/12	Committee Member, Tools Program Committee, 27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER'20)
2019/11 - 2019/12	Committee Member, Program Committee, 27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER'20)
2019/10 - 2019/11	Committee Member, Software Engineering in Practice (SEIP) Program Committee, 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20)
2018/11 - 2019/10	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 1 article (with multiple revisions)

2019/8 - 2019/9	Committee Member, Program Committee, 26th Asia-Pacific Software Engineering Conference (APSEC'19)
2018/7 - 2019/9	Committee Member, Reviewers, Wiley Journal of Software: Practice and Experience (JSPE) Reviewed 1 article (with multiple revisions)
2019/7 - 2019/8	Committee Member, Reviewers, Springer Software Quality Journal (SQJ) Reviewed 1 article (with multiple revisions)
2019/6 - 2019/7	Committee Member, Program Committee, 19th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM'19)
2019/5 - 2019/5	Committee Member, Reviewers, Elsevier Applied Computing and Informatics (ACI) Reviewed 1 article
2019/1 - 2019/5	Committee Member, Best Thesis Award, CNRS GDR GPL Programming and Software Engineering Research Cluster of CNRS, France (<i>Groupement de Recherche Génie de la Programmation et du Logiciel</i> in French)
2019/2 - 2019/4	Committee Member, Program Committee, 43rd IEEE Computer Software and Applications Conference (COMPSAC'19)
2019/3 - 2019/3	Committee Member, Tools Program Committee, 27th IEEE/ACM International Conference on Program Comprehension (ICPC'19)
2018/6 - 2019/3	Committee Member, Reviewers, Springer Automated Software Engineering (AUSE) Reviewed 1 article (with multiple revisions)
2018/2 - 2019/3	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 5 articles (with multiple revisions)
2019/1 - 2019/2	Committee Member, Program Committee, 6th International Workshop on Eye Movements in Programming (EMIP'19)
2019/1 - 2019/2	Committee Member, Program Committee, International Symposium on Software Engineering for Cloud, Edge and IoT Systems (SECEI'20)
2018/12 - 2019/2	Committee Member, Reviewers, Hindawi Scientific Programming (SP) Reviewed 1 article
2018/11 - 2019/2	Committee Member, Reviewers, IEEE Transactions on Software Engineering (TSE) Reviewed 1 article
2018/6 - 2019/2	Committee Member, Reviewers, Wiley Journal of Software: Evolution and Process (JSEP) Reviewed 1 article
2018/12 - 2018/12	Committee Member, Demonstration Program Committee, 26th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER'19)
2018/10 - 2018/11	Committee Member, Reviewers, Elsevier Science of Computer Programming (SCP) Reviewed 1 article
2018/10 - 2018/10	Committee Member, Reviewers, ACM Communications Reviewed 1 article
2018/9 - 2018/10	Committee Member, Shepherd, 12th Latin American Conference on Pattern Languages of Programs (SugarLoafPLoP'18)
2017/2 - 2018/10	Committee Member, Reviewers, IEEE Transactions on Software Engineering (TSE) Reviewed 4 articles (with multiple revisions)
2018/7 - 2018/9	Committee Member, Reviewers, Hindawi Scientific Programming (SP) Reviewed 1 article

2017/12 - 2018/9	Committee Member, Reviewers, ACM Transactions on Software Engineering and Methodology (TOSEM) Reviewed 1 article (with multiple revisions)
2018/7 - 2018/8	Committee Member, Program Committee, 25th Asia-Pacific Software Engineering Conference (APSEC'18)
2018/6 - 2018/7	Committee Member, Program Committee, 18th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM'18)
2018/6 - 2018/6	Committee Member, Doctoral Symposium Program Committee, 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE'18)
2018/4 - 2018/6	Committee Member, Program Committee, 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE'18)
2018/2 - 2018/5	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 1 article (with multiple revisions)
2018/1 - 2018/5	Committee Member, Best Thesis Award, CNRS GDR GPL Programming and Software Engineering Research Cluster of CNRS, France (<i>Groupement de Recherche Génie de la Programmation et du Logiciel</i> in French)
2017/3 - 2018/5	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 4 articles (with multiple revisions)
2017/3 - 2018/4	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 2 articles (with multiple revisions)
2018/2 - 2018/2	Committee Member, Program Committee, 26th IEEE/ACM International Conference on Program Comprehension (ICPC'18)
2018/1 - 2018/2	Committee Member, Demonstration Program Committee, 25th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER'18)
2017/5 - 2017/11	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 3 articles (with multiple revisions)
2017/3 - 2017/11	Committee Member, Reviewers, Elsevier Science of Computer Programming (SCP) Reviewed 1 article
2017/7 - 2017/8	Committee Member, Program Committee, 24th Asia-Pacific Software Engineering Conference (APSEC'17)
2017/6 - 2017/8	Committee Member, Reviewers, Springer Software Quality Journal (SQJ) Reviewed 1 article (with multiple revisions)
2017/6 - 2017/7	Committee Member, New Ideas and Emerging Results (NIER) Program Committee, 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME'17)
2017/1 - 2017/3	Committee Member, Program Committee, 25th IEEE International Conference on Program Comprehension (ICPC'17)
2016/9 - 2017/1	Committee Member, New Ideas and Emerging Results (NIER) Program Committee, 39th IEEE/ACM International Conference on Software Engineering (ICSE'17)

Other Memberships

2010/5 - 2024/8	Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
2007/3 - 2024/4	Member, Ordre des ingénieurs du Québec

Presentations

1. (2022). AI System Design Patterns: System Architecture, Component Design, and Model Operation. Huawei Strategy and Technology Workshop, Montréal, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

Publications

Journal Articles

1. Hafedh Mili, Imen Benzarti, Amel El Kharraz, Ghizlane El Boussaidi, Yann-Gaël Guéhéneuc, and Petko Valtchev. (2023). **Discovering Reusable Functional Features in Legacy Object-oriented Systems**. IEEE Transactions on Software Engineering (TSE). 49(7)
In Press
Refereed?: Yes
2. Jean Baptiste Minani*, Fatima Sabir, Naouel Moha, and Yann-Gaël Guéhéneuc. (2023). **A Multi-Method Study of Internet of Things Systems Testing in Industry**. IEEE Internet of Things Journal (IoTJ).
In Press
Refereed?: Yes
3. William Flageol*, Eloi Menaud*, Yann-Gaël Guéhéneuc, Mourad Badri, and Stefan Monnier. (2023). **A Mapping Study of Language Features Improving Object-oriented Design Patterns**. Elsevier Information and Software Technology (IST).
In Press
Refereed?: Yes
4. Rafik Tighilt*, Manel Abdellatif, Imen Trabelsi*, Loïc Madern, Naouel Moha, and Yann-Gaël Guéhéneuc. (2023). **On the Maintenance Support for Microservice-based Systems through the Specification and the Detection of Microservice Antipatterns**. Elsevier Journal of Systems and Software (JSS). 204
In Press
Refereed?: Yes
5. Nicolas Anquetil, Julien Delplanque, Stéphane Ducasse, Oleksandr Zaitsev, Christopher P. Fuhrman, and Yann-Gaël Guéhéneuc. (2022). **What Do Developers Consider Magic Literals? A Smalltalk Perspective**. Elsevier Information and Software Technology (IST). 146
In Press
Refereed?: Yes
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Refereed?: Yes, Invited?: No