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Dr. Yann-Gaël Guéhéneuc

Correspondence language: French

Sex: Male

Date of Birth: 4/25

Canadian Residency Status: Permanent Resident

Permanent Residency Start Date: 2006/02/11

Country of Citizenship: France

Contact Information

The primary information is denoted by (*)

Address

Mailing

Département de Génie informatique et génie
logiciel
École Polytechnique Montréal
C.P. 6079, succ. Centre-Ville
Montréal Quebec H3C 3A7
Canada

Primary Affiliation (*)

Computer Science and Software Engineering
Concordia University
1455 de Maisonneuve Boulevard West
Montréal Quebec H3G 1M8
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Telephone

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Email

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Website

Personal	http://www.ptidej.net/Members/guehenyg
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Protected when completed

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

2000/6 - 2003/6	<p>Doctorate, Diplôme de doctorat en informatique, Software Engineering, Université de Nantes / École des Mines de Nantes Degree Status: Completed Supervisors: Pierre Cointe, 2000/6 - 2003/6</p>
1997/9 - 1998/10	<p>Diploma, Diplôme d'études approfondies en informatique, Software Engineering, Université de Nantes Degree Status: Completed</p>
1994/10 - 1998/10	<p>Diploma, Diplôme d'ingénieur, Software Engineering, École des Mines de Nantes Degree Status: Completed</p>
1990/9 - 1993/7	<p>Bachelor's, Diplôme de baccalauréat en mathématiques et technique, Mathematics and Technic, Lycée Technologique Livet Degree Status: Completed</p>

Credentials

2008/6	Ingénieur, Ordre des ingénieurs du Québec
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Recognitions

2021/2	<p>Most Influential Paper Award at SANER'21 IEEE Computer Society Distinction</p>
2019/8	<p>Excellent Research Award Japan Information Processing Society Distinction N/A</p>
2019/5	<p>Best Paper Award at MOBILESoft'19 ACM Distinction</p>

2019/1	Most Influential Paper Award at SANER'19 IEEE Computer Society Distinction N/A
2018/11	Best Student Paper Award at ICSOC'18 Springer Distinction N/A
2018/9	Most Influential Paper Award at CASCON'18 ACM Distinction N/A
2018/1	Most Influential Paper Award at SANER'18 IEEE Computer Society Distinction N/A
2014/11	Best Paper Award at SOCA'14 IEEE Computer Society Distinction Best Paper Award at SOCA'14
2012/11	Runner-up Best Paper Award at ICSOC'12 Springer Distinction Runner-up Best Paper Award at ICSOC'12
2012/9	Best Paper Award at WCRE'12 IEEE Computer Society Distinction Best Paper Award at WCRE'12
2011/3	Best paper award at CSMR'11 IEEE Computer Society Distinction Best paper award at CSMR'11
2010/9	Best paper award at ERA Track at ICSM'10 IEEE Computer Society Distinction Best paper award at ERA Track at ICSM'10
2010/4	Senior Member IEEE Distinction Senior Member
2010/3	Best paper award at CSMR'10 IEEE Computer Society Distinction Best paper award at CSMR'10
2006/6	Best paper award at ICPC'06 IEEE Computer Society Distinction Best paper award at ICPC'06

2005/9 Best paper award at ICSM'05
 IEEE Computer Society
 Distinction
 Best paper award at ICSM'05

User Profile

Researcher Status: Researcher
 Engaged in Clinical Research?: No

Research Interests: Developing theories, methods, and tools, to understand, evaluate, and improve the quality of IoT software systems by promoting the use of idioms, design patterns, and architectural patterns from communications protocols to systems-of-systems.

Fields of Application: Communication and Information Technologies

Disciplines Trained In: Computer Engineering and Software Engineering, Industrial Engineering

Areas of Research: Algorithms, Computer Systems, Software Development, Teleinformatics

Research Specialization Keywords: Architecture, Design, Features, Idioms, Internet of Things, Maintenance, Program Comprehension, Software Quality, Testing

Research Centres: Centre de recherche du CHUM

Research Disciplines: Computer Engineering and Software Engineering

Employment

2017/8	Full Professor Department of Computer Science and Software Engineering, Faculty of Engineering and Computer Science, Concordia University Full-time, Professor Tenure Status: Tenure
2012/6 - 2017/8	Full Professor Département de génie informatique et génie logiciel, Université de Montréal, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2013/3 - 2014/4	Guest Professor Computer Science, Yonsei Campus, Yonsei University and Seoul National University Full-time Tenure Status: Non Tenure Track
2008/6 - 2012/5	Associate Professor Département de Génie informatique et Génie logiciel, Université de Montréal, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2008/5 - 2008/6	Associate Professor Informatique et recherche opérationnelle, Université de Montréal, Université de Montréal Full-time Tenure Status: Tenure

2003/8 - 2008/5	Assistant Professor Informatique et recherche opérationnelle, Université de Montréal, Université de Montréal Full-time Tenure Status: Tenure Track
1999/12 - 2001/5	Software Developer Object Technology International
1998/12 - 2000/4	Invited Researcher School of Computer Science, Université de Montréal, Carleton University Full-time Tenure Status: Non Tenure Track

Affiliations

The primary affiliation is denoted by (*)

(*) 2017/8	Full Professor, Computer Science and Software Engineering, Concordia University
2012/6 - 2017/8	Full professor, Computer and Software Engineering, École Polytechnique de Montréal

Research Funding History

Awarded [n=11]

2018/5 - 2025/4 Principal Investigator	Empirical Software Engineering for the Internet of Things, Research Chair Funding Sources: 2018/5 - 2025/4 Canada Research Chairs (CRC) Tier 1 Total Funding - 1,400,000 (Canadian dollar) Portion of Funding Received - 100 Funding Competitive?: Yes
2018/5 - 2024/4 Principal Investigator	Building Multi-language, Multi-system Quality Models Using Features and APIs, Grant, Operating Funding Sources: 2018/5 - 2023/4 NSERC Discovery Grant Total Funding - 180,000 (Canadian dollar) Portion of Funding Received - 20 Funding Competitive?: Yes
2020/1 - 2022/12 Co-investigator	Open Partnership Joint Research, Grant, Operating Clinical Research Project?: No Funding Sources: 2020/1 - 2022/12 Japan Society for the Promotion of Science (JSPS) Open Partnership Joint Research Total Funding - 4,000,000 (Japanese yen) (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes Principal Applicant : Hironori Washizaki
2020/1 - 2022/12 Co-applicant	INRIA Associate Team, Grant, Operating Clinical Research Project?: No

Funding Sources:

2020/1 - 2022/12 European Smalltalk User Group
 Total Funding - 2,400 (Euro) (Canadian dollar)
 Funding Renewable?: Yes
 Funding Competitive?: Yes

2020/1 - 2022/12 Institut National de Recherche en Informatique et Automatique (INRIA)
 Équipe associée
 Total Funding - 13,000 (Euro) (Canadian dollar)
 Funding Renewable?: Yes
 Funding Competitive?: Yes

Co-applicant : Christopher Fuhrman; Nicolas Anquetil; Stéphane Ducasse

2020/7 - 2022/7

Principal Investigator

IoT Research: from Modelling to Implementing Smart Cities, Grant, Workshop

Funding Sources:

2020/4 - 2021/4 Concordia University
 Aid to Research-related Events
 Total Funding - 5,000 (Canadian dollar)

Co-investigator : Ursula Eicker

2021/5 - 2022/4

Co-investigator

A Research Laboratory to Develop and Assess Context-Aware Smart Applications, Grant, Infrastructure

Funding Sources:

2021/1 - 2022/12 Canada Foundation for Innovation (CFI)
 Innovation Fund
 Total Funding - 722,423 (Canadian dollar)

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

Principal Investigator : Hamed Mili; Kim Lavoie

2020/1 - 2021/12

Principal Investigator

Collaboration de recherche interdisciplinaire entre le Québec et le Mexique pour soutenir la création, l'exploitation et le test de logiciels robustes pour l'Internet des objets (IoT), Grant, Operating

Funding Sources:

2019/5 - 2021/4 Ministère des Relations Internationales du Québec
 Groupe de travail Québec-Mexique
 Total Funding - 16,000 (Canadian dollar)

Co-investigator : Carlos Coello Coello

2018/2 - 2021/12

Co-investigator

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

Funding Sources:

2020/5 - 2023/4 Quebec (CRIAQ)
 AUT-1653_TRL4+
 Total Funding - 5,259,495 (Canadian dollar)

Co-investigator : Andréa Lodi; Antoine Legrain; Caroline Aubé; David Meger; David Saussié; Grégory Dudek; Inna Sharf;

Principal Investigator : Gabriela Nicolescu

2020/6 - 2021/9 Principal Applicant	Verifying and Deploying 5G Cloud Infrastructure for Improved Logistic and Communication in Healthcare Facilities Dealing with COVID-19 Patients, Grant, Operating
	Funding Sources: 2020/6 - 2022/5 Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Total Funding - 120,000 (Canadian dollar)
	Principal Investigator : Abdo Shabah (Humanitas Solutions)
2020/9 - 2021/8 Principal Applicant	Real-time Surrogate Safety Analysis Solution using Lidar Technology Powered by Artificial Intelligence, Grant, Operating
	Funding Sources: 2020/9 - 2022/8 Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Total Funding - 60,000 (Canadian dollar)
	Co-applicant : Asad Lesani (BlueCity Technology)
2018/5 - 2019/4 Principal Investigator	Empirical Software Engineering for the Internet of Things, Grant, Infrastructure
	Funding Sources: 2018/5 - 2019/4 Canadian Foundation for Innovation Canada Research Chair Tier 1 Total Funding - 282,135 (Canadian dollar) Portion of Funding Received - 0 Funding Competitive?: Yes
Completed [n=31]	
2018/4 - 2019/12 Principal Investigator	Évaluation empirique des environnements de développement logiciel, Grant, Operating
	Funding Sources: 2018/4 - 2019/12 Agence Universitaire de la Francophonie (AUF) PRISA Total Funding - 15,895 (Canadian dollar)
	Co-investigator : Marcelo Soares Pimenta; Marco Tulio Valente; Regina Motz
2017/9 - 2019/8 Principal Investigator	Startup, Grant, Establishment
	Funding Sources: 2017/9 - 2019/12 Concordia University Startup Total Funding - 75,000 (Canadian dollar) Portion of Funding Received - 100 Funding Competitive?: No
2018/5 - 2019/4 Co-investigator	Applying Machine Learning Techniques to the Identification and Correction of Anomalies in Transaction Sale Data, Grant, Operating
	Funding Sources: 2018/9 - 2019/8 Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Total Funding - 3,000 (Canadian dollar)

Co-applicant : Bernd Lehnert (SAP);

Co-investigator : Foutse Khomh

2014/5 - 2019/4
Principal Applicant

Patterns in Mixed-language Systems, Research Chair
Clinical Research Project?: No

Funding Sources:

2009/5 - 2014/4 Canada Research Chairs (CRC)
Tier 2
Total Funding - 500,000 (Canadian dollar)
Portion of Funding Received - 25 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2014/5 - 2018/12
Co-applicant

REUSE, Grant, Operating

Funding Sources:

2014/5 - 2018/8 Korea National Research and Development Projects
Team Project
Total Funding - 30,000 (Canadian dollar)
Portion of Funding Received - 10
Funding Competitive?: Yes

2015/5 - 2018/4
Co-applicant

Réingénierie architecturale orientée services de logiciels légataires orientés objet, Grant,
Operating

Funding Sources:

2015/5 - 2018/4 Fonds Québécois de la Recherche sur la Nature et les
Technologies (FQRNT)
Team Grant
Total Funding - 144,000 (Canadian dollar)
Portion of Funding Received - 28,800 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2012/5 - 2018/4
Principal Investigator

Building Practical Software Quality Models, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2012/5 - 2017/4 Natural Sciences and Engineering Research Council of Canada
(NSERC)
Subvention à la découverte
Total Funding - 204,000 (Canadian dollar)
Portion of Funding Received - 100 (Canadian dollar)
Funding Competitive?: Yes

2012/5 - 2017/4
Principal Investigator

ICD Management, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2012/5 - 2016/12 Natural Sciences and Engineering Research Council of Canada
(NSERC)
Recherche et développement collaborative
Total Funding - 132,000 (Canadian dollar)
Portion of Funding Received - 33 (Canadian dollar)
Funding Competitive?: Yes

Co-applicant : Pierre Labrèche;

Co-investigator : Roger Champane; Yvan Labiche;

Collaborator : Claire Mangado; Giuliano Antoniol; John Mullins

2013/9 - 2016/8
Co-applicant

Evaluation of a Tailored Virtual Intervention as an Instrument of Prevention and Therapeutic Support to Improve the Health of PLHIV and Reduce Comorbidity Associated with HIV, Grant, Operating
Clinical Research Project?: Yes

Funding Sources:

2013/9 - 2016/8 Canadian Institutes of Health Research (CIHR)
HIV
Total Funding - 421,224 (Canadian dollar)
Portion of Funding Received - 1 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2013/9 - 2016/4
Co-applicant

A Recommendation System for Managing the Configuration of Multi-tier Systems, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2013/9 - 2016/4 Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT)
Team project
Total Funding - 126,000 (Canadian dollar)
Portion of Funding Received - 1 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2016/1 - 2016/4
Principal Investigator

NSERC Day on Software Engineering for Cyber-physical Systems, Grant, Workshop

Funding Sources:

2016/1 - 2016/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Connect
Total Funding - 2,880 (Canadian dollar)
Portion of Funding Received - 100
Funding Competitive?: Yes

2015/9 - 2015/12
Principal Investigator

Ptidej Tool Suite, Grant, Operating

Funding Sources:

Korean Open Source Association
OSS World Challenge
Total Funding - 3,000
Portion of Funding Received - 100
Funding Competitive?: Yes

2009/6 - 2014/6
Principal Investigator

Software Patterns and Patterns of Software, Research Chair
Clinical Research Project?: No

Funding Sources:

2009/6 - 2014/5 Canada Research Chairs (CRC)
Tier 2
Total Funding - 500,000 (Canadian dollar)
Portion of Funding Received - 50 (Canadian dollar)
Funding Competitive?: Yes

2009/5 - 2014/4 Software Patterns and Patterns of Software, Grant, Infrastructure
Principal Investigator Clinical Research Project?: No

Funding Sources:

2009/5 - 2014/4 Canada Foundation for Innovation (CFI)
Tier II
Total Funding - 103,280 (Canadian dollar)
Portion of Funding Received - 100 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2012/1 - 2013/4 Operationalizing Quality Evaluation for Heterogeneous Legacy Systems, Grant, Operating
Principal Investigator Clinical Research Project?: No

Funding Sources:

2012/1 - 2013/4 MITACS and Benchmark Consulting
Accelerate
Total Funding - 80,000 (Canadian dollar)
Portion of Funding Received - 100 (Canadian dollar)
Funding Competitive?: No

Co-applicant : Giuliano Antoniol

2009/5 - 2012/4 Méthodes à base de contraintes pour la vérification des systèmes logiciels-matériels,
Co-investigator Grant, Operating
Clinical Research Project?: No

Funding Sources:

2009/5 - 2012/4 Fonds Québécois de la Recherche sur la Nature et les
Technologies (FQRNT)
Projet en équipe
Total Funding - 168,900 (Canadian dollar)
Portion of Funding Received - 50 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Giuliano Antoniol;

Principal Investigator : Gilles Pesant

2007/5 - 2012/4 Understanding the Impacts of Software Design Patterns and, Grant, Operating
Principal Investigator

Funding Sources:

2007/5 - 2012/4 Natural Sciences and Engineering Research Council of Canada
(NSERC)
Subvention à la découverte
Total Funding - 135,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2008/5 - 2011/4 Évaluation d'une intervention virtuelle (application Web) visant à optimiser la prise des
Co-investigator antirétroviraux auprès des personnes vivant avec le VIH, Grant, Operating

Clinical Research Project?: No

Funding Sources:

2008/5 - 2011/4 Fonds de la Recherche en Santé du Québec (FRSQ)
Équipe
Total Funding - 229,160 (Canadian dollar)
Portion of Funding Received - 1 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : José Côté

2007/5 - 2010/4 Application d'algorithmes de bio-informatique à l'analyse des programmes et de leur
Principal Investigator évolution, Grant, Operating

Funding Sources:

2007/5 - 2010/4 Fonds Québécois de la Recherche sur la Nature et les
Technologies (FQRNT)
Projet en équipe
Total Funding - 155,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Sylvie Hamel

2006/11 - 2009/10 Mesure des objets pour la visualisation, l'évaluation et la re-ingénierie des logiciels,
Principal Investigator Contract, Operating

Funding Sources:

2006/11 - 2009/10 SNCF
Contrat de recherche
Total Funding - 112,000 (Canadian dollar)
Funding Competitive?: No

Co-investigator : Houari Saharoui

2007/5 - 2009/4 Efficacité d'un programme d'intervention sur mesure à optimiser l'adhésion au
Co-investigator antirétroviraux, Grant, Operating

Funding Sources:

2007/5 - 2009/4 Fonds Québécois de la Recherche sur la Société et la Culture
(FQRSC)
Projet en équipe
Total Funding - 150,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Côté, José

2008/1 - 2008/12 REMOOS, Grant, Operating
Co-investigator Clinical Research Project?: No

Funding Sources:

2008/1 - 2008/12 Institut National de Recherche en Informatique et Automatique
(INRIA)
Équipe Associée
Total Funding - 36,570 (Canadian dollar)
Portion of Funding Received - 50 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Oscar Nierstrasz;

Principal Investigator : Stéphane Ducasse

- 2007/9 - 2008/12
Co-investigator
- Vers un langage spécifique au domaine de la suggestion de correction des défauts de conception, Grant, Operating
- Funding Sources:**
2007/9 - 2008/12 Institut National de Recherche en Informatique et Automatique (INRIA)
Programme INRIA--FQRNT
Total Funding - 12,850 (Canadian dollar)
Funding Competitive?: Yes
- Co-investigator : Anne-Françoise Le Meur;
Principal Investigator : Laurence Duchien
- 2008/1 - 2008/8
Principal Investigator
- Soutenance de la thèse de doctorat de Naouel Moha, Grant, Operating
- Funding Sources:**
2008/1 - 2008/8 Université Lille 2 (France)
Crédits BQR - Internationalisation de la recherche
Total Funding - 2,215 (Canadian dollar)
- Principal Investigator : Laurence Duchien
- 2007/5 - 2008/4
Principal Investigator
- Un outil d'évaluation de la qualité architecturale logicielle, Grant, Operating
- Funding Sources:**
2007/5 - 2008/4 University of Montreal
Valorisation des innovations et du capital intellectuel
Total Funding - 6,720 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc
- 2007/5 - 2007/6
Principal Investigator
- Detection and Correction of Design Defects, Grant, Operating
- Funding Sources:**
2007/5 - 2007/6 Department of Foreign Affairs and International Trade (Canada)
Remboursement des frais de présentation
Total Funding - 495 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc
- 2007/3 - 2007/4
Principal Investigator
- Collaboration avec Laurence Duchien et Anne-Francoise Le Meur de l'équipe INRIA Futurs ADAM, Grant, Operating
- Funding Sources:**
2007/3 - 2007/4 Institut National de Recherche en Informatique et Automatique (INRIA)
EGIDE : Centre français pour l'accueil et les échanges inter
Total Funding - 4,400 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc, Laurence Duchien et Anne-Francoise Le Meur
- 2004/5 - 2007/4
Principal Investigator
- Tools to improve architectural and design maintainability of object-oriented programs, Grant, Operating
- Funding Sources:**
2004/5 - 2007/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Subvention à la découverte
Total Funding - 74,100 (Canadian dollar)

Principal Investigator : Yann-Gaël Guéhéneuc

2005/9 - 2006/8
Co-investigator

Support informatique pour l'analyse et l'amélioration du comportement des patients avec une maladie longue, Grant, Operating

Funding Sources:

2005/9 - 2006/8 Fonds de la Recherche en Santé du Québec (FRSQ)
Réseau SIDA et maladies infectieuses du FRSQ, en équipe
Total Funding - 15,000 (Canadian dollar)

Principal Investigator : Côté, José

2005/9 - 2006/4
Principal Investigator

A laboratory for experimental software engineering to evaluate online static analyses and program understanding techniques that support program maintenance and development., Grant, Equipment

Funding Sources:

2005/9 - 2006/4 Canada Foundation for Innovation (CFI)
Infrastructure
Total Funding - 362,140 (Canadian dollar)

Principal Investigator :

2003/9 - 2004/8
Principal Investigator

Ptidej, une suite d'outils pour évaluer et améliorer la qualité des programmes orientés-objets en promouvant l'utilisation de patrons, Grant, Establishment

Funding Sources:

2003/9 - 2004/8 University of Montreal
Fonds de démarrage
Total Funding - 30,000 (Canadian dollar)

Principal Investigator :

Under Review [n=1]

Principal Investigator WAPITERb - Where Are People In The ER Building, Grant, Equipment

Funding Sources:

2021/1 - 2024/12 Concordia University
Capital Call
Total Funding - 434,773 (Canadian dollar)

Co-investigator : Ursula Eicker

Student/Postdoctoral Supervision

Master's Thesis [n=25]

2020/1 Jianbin Lai (In Progress) , Concordia University
Principal Supervisor Student Degree Start Date: 2020/1
Thesis/Project Title: **Comparing IoT APIs**

2020/1 Mohammad Nazemi (In Progress) , Concordia University
Principal Supervisor Student Degree Start Date: 2020/1
Thesis/Project Title: **Software System for LIDAR Analyses**

- 2019/9 - 2021/2
Co-Supervisor
Rafik Tighilt (Completed) , UQÀM
Student Degree Start Date: 2019/9
Student Degree Received Date: 2021/2
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**
- 2019/6 - 2021/7
Principal Supervisor
Tuan Van Tran (Completed) , Concordia University
Student Degree Start Date: 2019/6
Student Degree Received Date: 2021/7
Thesis/Project Title: **Formalising Solutions to REST API Practices as Design (Anti)patterns**
- 2017/9 - 2019/4
Co-Supervisor
Antoine Barbez (Completed) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Student Degree Received Date: 2018/12
Thesis/Project Title: **Applying Machine Learning Techniques to the Identification of Code Smells**
Present Position: Master Student
- 2016/9 - 2018/5
Co-Supervisor
Atefeh Meshinchi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2016/9
Student Degree Received Date: 2018/5
Thesis/Project Title: **QoS-aware Adaptive Resource Allocation Framework in SDN-based IoT Middleware**
Project Description: *Efficient SDN Configuration*
Present Position: Professional
- 2016/5 - 2017/12
Co-Supervisor
Mahdis Zolfagharinia (Completed) , Polytechnique Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2017/12
Thesis/Project Title: **Leveraging Build Systems for Migration**
Project Description: *Leveraging Build Systems for Migration*
Present Position: M.Sc. Student
- 2015/1 - 2016/8
Co-Supervisor
Béchir Bani (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/5
Student Degree Received Date: 2016/8
Thesis/Project Title: **The Impact of Cloud Patterns and Databases on the Energy Consumption of Cloud Applications**
Present Position: Business Intelligence Engineer, Ubisoft Montréal
- 2011/1 - 2012/8
Co-Supervisor
Duclos Étienne (Completed) , Polytechnique Montréal
Student Degree Start Date: 2011/1
Student Degree Received Date: 2012/8
Thesis/Project Title: **ACRE : un générateur automatique d'aspect pour tester des logiciels écrits en C++**
Project Description: Génération de cas de tests pour un logiciel scientifique
Present Position: Automation Engineer, Intel Security
- 2010/1 - 2012/12
Co-Supervisor
Neelesh Bhattacharya (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Test Data Generation for Exposing Interference Bugs in Multi-threaded Systems**
Project Description: Test data generation for software-hardware systems
Present Position: Financial Solutions Analyst, BNP Paribas

- 2010/1 - 2012/12
Co-Supervisor
Boughanmi Ferdaous (Completed) , Polytechnique Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Source Code and License Statement Co-evolution**
Project Description: Multi-lingual framework evolution
Present Position: Lecturer, Cégep Bois-de-Bologne
- 2008/9 - 2010/11
Principal Supervisor
Abbes Marwen (Completed) , Polytechnique Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2010/11
Thesis/Project Title: **Impact of Antipatterns on Program Comprehension**
Project Description: Impact of antipatterns on program comprehension
Present Position: Senior Software Architect / Developer, Domum Link
- 2007/9 - 2009/12
Principal Supervisor
Tanteri Julien (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2009/12
Thesis/Project Title: **Visualisation of Software Histories**
- 2007/9 - 2009/12
Principal Supervisor
Lemoine Mathieu (Completed) , Université de Montréal
Student Degree Start Date: 2007/5
Student Degree Received Date: 2009/10
Thesis/Project Title: **Refactorings and Traceability**
- 2007/9 - 2008/8
Principal Supervisor
Tagmouti Yousra (Completed) , Université de Montréal
Student Degree Start Date: 2006/9
Student Degree Received Date: 2008/7
Thesis/Project Title: **Generating Source Code from Patterns to Hardware Systems**
- 2007/5 - 2009/12
Principal Supervisor
Wu Wei (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2009/12
Thesis/Project Title: **Framework Evolution**
- 2007/5 - 2008/8
Principal Supervisor
Bertrand Paul (Completed) , Université de Montréal
Student Degree Start Date: 2007/1
Student Degree Received Date: 2008/7
Thesis/Project Title: **Study of the Usability of PocketPC**
- 2006/9 - 2008/9
Principal Supervisor
Cepeda Gerardo (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2008/8
Thesis/Project Title: **Study of UML-based Program Comprehension**
- 2006/9 - 2008/9
Principal Supervisor
Habti Norddin (Completed) , Université Montréal
Student Degree Start Date: 2006/5
Student Degree Received Date: 2008/8
Thesis/Project Title: **Static Analysis of the Composition Relation**
Present Position: Etudiant
- 2006/9 - 2008/7
Principal Supervisor
Ka-Yee Ng Janice (Completed) , Université Montréal
Student Degree Start Date: 2004/9
Student Degree Received Date: 2008/6
Thesis/Project Title: **Modelling and Detecting the Behaviour of Design Patterns**
Present Position: Etudiante

- 2004/9 - 2006/4
Principal Supervisor
Guyomarc'h Jean-Yves (Completed) , Université de Montréal
Student Degree Start Date: 2004/9
Student Degree Received Date: 2006/4
Thesis/Project Title: **Studying the Quality of Aspect-oriented Source Code**
Present Position: Analyste-programmeur
- 2004/9 - 2005/8
Principal Supervisor
Samah Rached (Completed) , Université de Montréal
Student Degree Start Date: 2003/9
Student Degree Received Date: 2005/10
Thesis/Project Title: **Visualisation du comportement des programmes par matrices d'adjacence**
Present Position: ?
- 2004/9 - 2007/2
Principal Supervisor
Bouden Saliha (Completed) , Université Montréal
Student Degree Start Date: 2003/9
Student Degree Received Date: 2007/2
Thesis/Project Title: **Coarse-grain (Non-)Behavior Preserving Refactorings**
Present Position: Etudiante
- 2004/1 - 2005/8
Co-Supervisor
Olivier Kaczor (Completed) , Université de Montréal
Student Degree Start Date: 2004/9
Student Degree Received Date: 2006/4
Thesis/Project Title: **Design Pattern Identification using Bio-informatics Algorithms**
Present Position: Analyste-programmeur
- 2003/9 - 2005/8
Principal Supervisor
Khosravi Khashayar (Completed) , Université de Montréal
Student Degree Start Date: 2003/9
Student Degree Received Date: 2005/10
Thesis/Project Title: **Design-patterns-enabled Object-oriented Metrics**
Present Position: ?
- Doctorate [n=29]**
- 2021/5
Principal Supervisor
Peter Yefi (In Progress) , Concordia University
Student Degree Start Date: 2021/5
Thesis/Project Title: **Designing IoT Systems for Sustainability**
- 2021/5
Principal Supervisor
Jean Baptiste Minani (In Progress) , Concordia University
Student Degree Start Date: 2021/5
Thesis/Project Title: IoT as a Service
- 2021/5
Co-Supervisor
Muhammad Shoab (In Progress) , Concordia University
Student Degree Start Date: 2021/5
Thesis/Project Title: **IoT Software Architecture**
- 2021/1
Co-Supervisor
Imen Trabelsi (In Progress) , UQÀM
Student Degree Start Date: 2021/1
Thesis/Project Title: **Unsupervised Learning for Micro Service Migration**
- 2018/5
Co-Supervisor
Cristiano Politowski (In Progress) , Concordia University
Student Degree Start Date: 2018/5
Thesis/Project Title: **Software Testing for Video Games**
Present Position: Doctorate
- 2017/9
Co-Supervisor
Mashaël Etaiwi (In Progress) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Thesis/Project Title: **Applying Consensus on Software Engineering Data**
Present Position: Doctorate

- 2017/9
Co-Supervisor Diana El-Masri (In Progress) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Thesis/Project Title: **Log for IoT Systems**
Present Position: Master Student
- 2017/9
Co-Supervisor William Flageol (In Progress) , Concordia University
Student Degree Start Date: 2017/9
Thesis/Project Title: **Programming Languages and Design Constraints**
Present Position: Doctorate
- 2017/5 - 2017/8
Co-Supervisor Fatima Sabir (Completed) , COMSATS Institute of Information Technology Lahore
Student Degree Start Date: 2017/5
Student Degree Received Date: 2017/8
Thesis/Project Title: **Correction of SOA Anti-patterns**
Present Position: Ph.D. Student
- 2016/5 - 2021/7
Principal Supervisor Manel Abdellatif (Completed) , Polytechnique Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2021/7
Thesis/Project Title: **Service Identification to Support the Migration of Legacy Systems to SOA**
Present Position: Ph.D. Student
- 2015/9 - 2017/4
Co-Supervisor Fabio Petrillo (Completed) , Universidade Federal do Rio Grande do Sul
Student Degree Start Date: 2015/9
Student Degree Received Date: 2016/8
Thesis/Project Title: **Swarm Debugging: the Collective Debugging Intelligence of the Crowd**
Present Position: Research Associate, Concordia University
- 2015/1 - 2019/7
Co-Supervisor Zeinab Kermansaravi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2015/1
Student Degree Received Date: 2019/7
Thesis/Project Title: **Mutations of Software Patterns**
Present Position: Ph.D. Student
- 2014/9 - 2017/12
Co-Supervisor Rubén Saborido-Infantes (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/9
Student Degree Received Date: 2017/4
Thesis/Project Title: **Analysing and Understanding Energy Consumption of Software**
Present Position: Ph.D. Student
- 2011/9 - 2015/8
Principal Supervisor Francis Palma (Completed) , Polytechnique Montréal
Student Degree Start Date: 2011/9
Student Degree Received Date: 2015/8
Thesis/Project Title: **Unifying Service Oriented Technologies for the Specification and Detection of their Antipatterns**
Present Position: Professor, Linnaeus University
- 2011/1 - 2015/12
Principal Supervisor Zépyrin Soh (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2015/12
Thesis/Project Title: **Improving Program Comprehension and Recommendation Systems using Developers' Context**
Project Description: Compréhension des patrons de conception
Present Position: Software Developer, Adacel

- 2010/9 - 2014/11
Principal Supervisor
Medini Soumaya (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2014/11
Thesis/Project Title: **Concepts Extraction from Execution Traces**
Present Position: Research Associate, Concordia University
- 2010/9 - 2015/5
Principal Supervisor
Sharafi Zohreh (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2015/5
Thesis/Project Title: **On the Influence of Representation Type and Gender on Recognition Tasks of Program Comprehension**
Present Position: Technology Associate, Morgan Stanley
- 2010/5 - 2014/12
Principal Supervisor
Wu Wei (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/5
Student Degree Received Date: 2014/12
Thesis/Project Title: **Understanding and Tooling Framework API Evolution**
Project Description: Multi-objective quality improvements
Present Position: Software Developer, SAP
- 2010/1 - 2014/12
Co-Supervisor
Sakti Abdelilah (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2014/12
Thesis/Project Title: **Automatic Test Data Generation using Constraint Programming and Search Based Software Engineering Techniques**
Project Description: Test case generation with constraint-programming and search-based techniques
Present Position: Senior Research Scientist, United Technologies Research Center
- 2009/9 - 2012/7
Principal Supervisor
Ali Nasir (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Analysing Source Code Structure and Mining Software Repositories to Create Requirements Traceability Links**
Project Description: Improving requirements traceability
Present Position: Development Specialist, Strategic Mobility Group
- 2009/9 - 2015/12
Principal Supervisor
Sabané Aminata (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2015/12
Thesis/Project Title: **Reducing Object-oriented Testing through the Analysis of Antipatterns**
Project Description: Design pattern and testing
Present Position: Lecturer, University of Ouagadougou
- 2009/9 - 2013/12
Principal Supervisor
Jaafar Fehmi (Completed) , Université de Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2013/12
Thesis/Project Title: **Analysing Artefacts Dependencies to Evolving Software Systems**
Project Description: Evolution of software versions
Present Position: Professor, Concordia University of Edmonton

- 2009/9 - 2014/8
Principal Supervisor Arnaoudova Venera (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2014/8
Thesis/Project Title: **Towards Improving the Code Lexicon and its Consistency**
Project Description: Linguistic antipatterns
Present Position: Assistant Professor, Washington State University
- 2009/9 - 2013/8
Co-Supervisor Guerrouj Latifa (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/5
Student Degree Received Date: 2013/8
Thesis/Project Title: **Context-aware Source Code Vocabulary Normalization for Software Maintenance**
Project Description: Identifier splitting and program comprehension
Present Position: Professor, École de Technologie Supérieure
- 2009/5 - 2015/12
Co-Supervisor Eshkevari Laleh (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2015/12
Thesis/Project Title: **Automatic Detection and Classification of Identifiers**
Project Description: Identifiers impact on program comprehension and evolution
Present Position: Post-doctoral Researcher, Concordia University
- 2008/9 - 2012/11
Principal Supervisor Maiga Abdou (Completed) , Université de Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2012/11
Thesis/Project Title: **Impact and Detection of Design Smells**
Project Description: Extended studies on design defects
Present Position: Director of IT, Ministry of Higher Education and Scientific Research, Ivory Coast
- 2007/9 - 2012/12
Principal Supervisor Hassaine Salima (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Evaluating Design Decay during Software Evolution**
Project Description: Metaphors to software evolution
Present Position: N/A, N/A
- 2006/9 - 2010/8
Principal Supervisor Khomh Foutse (Completed) , Université Montréal
Student Degree Start Date: 2006/9
Student Degree Received Date: 2010/8
Thesis/Project Title: **A Design-aware Quality Model**
Project Description: Design pattern-based software quality
Present Position: Associate Professor, Polytechnique Montréal
- 2005/9 - 2008/8
Principal Supervisor Moha Naouel (Completed) , Université Montréal
Student Degree Start Date: 2005/5
Student Degree Received Date: 2008/8
Thesis/Project Title: **Classification, Identification, and Correction of Design Defects**
Project Description: Design smells and object-oriented architectures
Present Position: Professor, UQÀM

Post-doctorate [n=10]

- 2020/3 - 2021/12
Principal Supervisor Fatima Sabir (In Progress) , Concordia University
Student Degree Start Date: 2020/3
Student Degree Expected Date: 2021/12
Thesis/Project Title: **Software Engineering Drones for Emergency Responses**

- 2018/6 - 2018/12
Principal Supervisor
Rodrigo Morales (Completed) , Concordia University
Student Degree Start Date: 2018/6
Student Degree Received Date: 2018/12
Thesis/Project Title: **Improving Software Quality of IoT through Refactorings**
Present Position: Post-doctorate
- 2018/6 - 2018/12
Principal Supervisor
Rubén Saborido-Infantes (Completed) , Concordia University
Student Degree Start Date: 2018/5
Student Degree Received Date: 2018/12
Thesis/Project Title: **Search Based Software Engineering in Program Optimization for IoT**
Present Position: Post-doctorate
- 2018/3 - 2019/4
Principal Supervisor
Rodrigo Morales (Completed) , Concordia University
Student Degree Start Date: 2018/3
Student Degree Received Date: 2019/4
Thesis/Project Title: **Improving Software Quality through Refactorings**
- 2017/9 - 2018/12
Co-Supervisor
Md Saidur Rahman (Completed) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Student Degree Received Date: 2018/12
Thesis/Project Title: **Applying Machine Learning Techniques to the Identification and Correction of Anomalies in Data**
Present Position: Post-doctorate
- 2016/12 - 2017/7
Co-Supervisor
Anas Shatnawi (Completed) , UQÀM
Student Degree Start Date: 2016/12
Student Degree Received Date: 2017/7
Thesis/Project Title: **Service-oriented Reengineering**
Present Position: Post-doctoral Researcher, University of Milan
- 2015/4 - 2016/2
Co-Supervisor
Carla De Monteiro Marques (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/9
Student Degree Received Date: 2016/2
Student Canadian Residency Status: Work Permit
Thesis/Project Title: **Anti-patterns in Networks**
Present Position: Professor, Centro Universitário de João Pessoa, Brazil
- 2015/4 - 2016/2
Principal Supervisor
Henrique Jorge Amorim Holanda (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/9
Student Degree Received Date: 2016/2
Student Canadian Residency Status: Work Permit
Thesis/Project Title: **Anti-patterns in Service-based Application**
Present Position: Professor, Centro Universitário de João Pessoa, Brazil
- 2013/1 - 2013/12
Principal Supervisor
Ségla Kpodjedo (Completed) , Polytechnique Montréal
Student Degree Start Date: 2013/1
Student Degree Received Date: 2013/12
Thesis/Project Title: **Graph Matching**
Present Position: Professor, École de Technologie Supérieure
- 2007/9 - 2008/8
Principal Supervisor
Denier Simon (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2009/8
Thesis/Project Title: **Design Pattern Composition**
Present Position: Software Engineer, Sogilis

Research Associate [n=4]

- 2017/9 - 2018/8 Fábio Petrillo (Completed) , Concordia University
Principal Supervisor Student Degree Start Date: 2017/9
Student Degree Received Date: 2018/8
Thesis/Project Title: **Alleviating the New Software Engineering Crisis**
Present Position: Post-doctoral Researcher
- 2009/1 - 2009/8 Tagmouti Yousra (Completed) , Université de Montréal
Principal Supervisor Student Degree Start Date: 2009/5
Student Degree Received Date: 2009/12
Thesis/Project Title: **Maintaining an Eye-tracking Infrastructure**
Project Description: Maintenance d'une infrastructure d'oculométrie
Present Position: Lecturer, Collège de Maisonneuve
- 2008/9 - 2010/11 Abbes Marwen (Completed) , Polytechnique Montréal
Principal Supervisor Student Degree Start Date: 2011/1
Student Degree Received Date: 2011/4
Thesis/Project Title: **Impact of Antipatterns on Program Comprehension**
Project Description: Maintenance d'une infrastructure d'oculométrie
Present Position: Senior Software Architect / Developer, Domum Link
- 2008/9 - 2009/8 Cepeda Gerardo (Completed) , Université de Montréal
Principal Supervisor Student Degree Start Date: 2008/9
Student Degree Received Date: 2008/12
Thesis/Project Title: **Eye-tracking and UML Class Diagrams**
Project Description: Évaluation de mises en page de diagrammes de classes
Present Position: DevOps, Evangelist, Awesomeness Enabler, Desjardins

Staff Supervision

Number of Scientific and Technical Staff: 0

Number of Visiting Researchers: 0

Community and Volunteer Activities

2012/5 - 2016/4 Évaluateur, Natural Sciences and Engineering Research Council of Canada (NSERC)

Publications**Journal Articles**

1. Gias Uddin, Yann-Gaël Guéhéneuc, Foutse Khomh, and Chanchal Roy. (2021). **An Empirical Study of an Ensemble of Stand-Alone Sentiment Detection Tools for Software Engineering Document**. Transactions on Software Engineering and Methodology. Published, ACM Press, Refereed?: Yes
2. Zeinab Azadeh Kermansaravi, Md Saidur Rahman, Foutse Khomh, Fehmi Jaafar, and Yann-Gaël Guéhéneuc. (2021). **Investigating Design Patterns and Design Anti-pattern Mutations and their Change- and Fault-proneness**. Empirical Software Engineering Journal. Co-Author Published, Springer, Refereed?: Yes, Open Access?: No

3. Cristiano Politowski, Fabio Petrillo, Gabriel C. Ullmann, Yann-Gaël Guéhéneuc. (2021). **Game Industry Problems: an Extensive Analysis of the Gray Literature** . Information and Software Technology. 134
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No
4. Fatima Sabir, Yann-Gaël Guéhéneuc, Francis Palma, Naouel Moha, Ghulam Rasool, and Hassan Akhtar. (2021). **A Mixed-method Approach to Recommend Corrections and Correct REST Antipatterns**. Transactions on Software Engineering.
Published, IEEE CS Press,
Refereed?: Yes
5. Manel Abdellatif, Rafik Tighilt, Abdelkarim Belkhir, Naouel Moha, Yann-Gaël Guéhéneuc, and Éric Beaudry. (2021). **A Multi-dimensional Study on the State of the Practice of REST APIs Usage in Android Apps**. Automated Software Engineering. 27
Co-Author
Published, Springer,
Refereed?: Yes, Open Access?: No
6. Cristiano Politowski, Fabio Petrillo, João Eduardo Montandon, Marco Tulio Valente, and Yann-Gaël Guéhéneuc. (2021). **Are Game Engines Software Frameworks? A Three-perspective Study**. Journal of Software and Systems. 171
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No
7. Manel Abdellatif, Anas Shatnawi, HafedhMili, Naouel Moha, Ghizlane El Boussaidi, Geoffrey Hecht, Jean Privat, and Yann-Gaël Guéhéneuc. (2021). **A Taxonomy of Service Identification Approaches for Legacy Software Systems Modernization**. Journal of Systems and Software. 173
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No
8. João Eduardo Montandon, Cristiano Politowski, Luciana Lourdes Silva, Marco Tulio Valente, Fabio Petrillo, and Yann-Gaël Guéhéneuc. (2021). **What Skills do IT Companies look for in New Developers? A Study with Stack Overflow Jobs (Short)** . Information and Software Technology. 129
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No
9. Gias Uddin, Fatima Sabir, Yann-Gaël Guéhéneuc, Omar Alam, and Foutse Khomh. (2021). **An Empirical Study of IoT Topics in IoT Developer Discussions on Stack Overflow**. Empirical Software Engineering Journal.
Published, Springer,
Refereed?: Yes
10. Cristiano Politowski, Foutse Khomh, Simone Romano, Giuseppe Scanniello, Fabio Petrillo, Yann-Gaël Guéhéneuc, and Abdou Maiga. (2020). **A large scale empirical study of the impact of Spaghetti Code and Blob anti-patterns on program comprehension**.Journal of Systems and Software. 122
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No

11. Guilherme Lacerda, Fabio Petrillo, Marcelo Pimenta, and Yann-Gaël Guéhéneuc. (2020). **Code Smells and Refactoring: A Tertiary Systematic Review of Challenges and Observations**. Journal of Systems and Software. 167
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No
12. Antoine Barbez, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2020). **A Machine-learning based Ensemble Method for Anti-patterns Detection**. Journal of Systems and Software. 161
Published, Elsevier,
Refereed?: Yes
13. Diana El-Masri, Fabio Petrillo, Yann-Gaël Guéhéneuc, Abdelwahab Hamou-Lhadj, and Anas Bouziane. (2020). **A Systematic Literature Review on Automated Log Abstraction Techniques**. Information and Software Technology.
Published, Elsevier,
Refereed?: Yes
14. Zohreh Sharafi, Bonita Sharif, Yann-Gaël Guéhéneuc, Andrew Begel, Roman Bednarik, and Martha E. Crosby. (2020). A Practical Guide on Conducting Eye Tracking Studies in Software Engineering. Empirical Software Engineering Journal. 25: 3128-3174.
Co-Author
Published, Springer,
Refereed?: Yes, Open Access?: No
15. Rodrigo Morales, Rubén Saborido, and Yann-Gaël Guéhéneuc. (2020). MoMIT: Porting a JavaScript Interpreter on a Quarter Coin. Transactions on Software Engineering.
Published, IEEE CS Press,
Refereed?: Yes
16. Mohab Aly, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Washizaki, and Soumaya Yacout. (2019). **Is Fragmentation a Threat to the Success of the Internet of Things?**. Internet of Things Journal. 6: 472-487.
Published, IEEE CS Press,
Refereed?: Yes
17. Fatima Sabir, Francis Palma, Ghulam Rasool, Yann-Gaël Guéhéneuc, and Naouel Moha. (2019). **A Systematic Literature Review on the Detection of Smells and their Evolution in Object-oriented and Service-oriented Systems**. Journal of Software - Practice and Experience. 49: 3-39.
Published, Wiley,
Refereed?: Yes
18. Fábio Petrillo, Yann-Gaël Guéhéneuc, Marcelo Pimenta, Carla Maria Dal Sasso Freitas, and Foutse Khomh. (2019). **Swarm Debugging: The Collective Intelligence on Interactive Debugging**. Journal of Systems and Software. 153: 152-174.
Published, Elsevier,
Refereed?: Yes
19. Mahdis Zolfagharinia, Bram Adams, and Yann-Gaël Guéhéneuc. (2019). **A Study of Build Inflation in 30 Million CPAN Builds on 13 Perl Versions and 10 Operating Systems**. Empirical Software Engineering. 24: 3933-3971.
Published, Springer,
Refereed?: Yes
20. Francis Palma, Naouel Moha, and Yann-Gaël Guéhéneuc. (2019). **UniDoSA: The Unified Specification and Detection of Service Antipatterns**. Transactions on Software Engineering. 45(10): 1024-1053.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes

21. Hayet Brabra, Achraf Mtibaa, Fábio Petrillo, Philippe Merle, Layth Sliman, Naouel Moha, Walid Gaaloul, Yann-Gaël Guéhéneuc, Boualem Benatallah, and Faïez Gargouri. (2019). **On Semantic Detection of Cloud API (Anti)Patterns**. Information and Software Technology. 107: 65-82.
Published, Elsevier,
Refereed?: Yes
22. Hironori Washizaki, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2018). **ProMeTA: A Taxonomy for Program Metamodels in Program Reverse Engineering**. Journal of Empirical Software Engineering. 23(4): 2323-2358.
Published,
Refereed?: Yes
23. Cristiano Politowski, Lisandra M. Fontoura, Fabio Petrillo, and Yann-Gaël Guéhéneuc. (2018). **Learning from the Past: a Process Recommendation System for Video Game Projects using Postmortems Experiences**. Information and Software Technology. 100: 103-118.
Published,
Refereed?: Yes
24. Rubén Saborido, Rodrigo Morales, Foutse Khomh, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2018). **Getting the Most from Map Data Structures in Android**. Journal of Empirical Software Engineering. 23(5): 2829-2864.
Published,
Refereed?: Yes
25. Mohab Aly, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Washizaki, and Soumaya Yacout. (2018). **Is Fragmentation a Threat to the Success of the Internet of Things?**. Internet of Things Journal. N/A: 24.
Published,
Refereed?: Yes
26. Fatima Sabir, Francis Palma, Ghulam Rasool, Yann-Gaël Guéhéneuc, and Naouel Moha. (2018). **A Systematic Literature Review on the Detection of Smells and their Evolution in Object-Oriented and Service-Oriented Systems**. Software: Practice and Experience. N/A: 48.
Published,
Refereed?: Yes
27. Aminata Sabané, Yann-Gaël Guéhéneuc, Venera Arnaoudova, and Giuliano Antoniol. (2017). **Fragile Base-class Problem, Problem?**. Springer Journal of Empirical Software Engineering. 22(5): 2612–2657.
Co-Author
Published,
Refereed?: Yes
28. Latifa Guerrouj, Zeinab Kermansaravi, Venera Arnaoudova, Benjamin C. M. Fung, Foutse Khomh, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2017). **Investigating the Relation between Lexical Smells and Change- and Fault-proneness: An Empirical Study**. Springer Software Quality Journal. 25(3): 641–670.
Co-Author
Published,
Refereed?: Yes
29. Rubén Saborido, Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2017). **Comprehension of Ads-supported and Paid Android Applications: Are They Different?**. Cornell University Library arXiv. N/A: N/A.
Co-Author
Published,
Refereed?: Yes

30. Francis Palma, Javier Gonzalez-Huerta, Mohamed Founi, Naouel Moha, Guy Tremblay, and Yann-Gaël Guéhéneuc. (2017). **Semantic Analysis of RESTful APIs for the Detection of Linguistic Patterns and Antipatterns**. World Scientific International Journal of Cooperative Information Systems. 26(2): 1–37.
Co-Author
Published,
Refereed?: Yes
31. Zéphyrin Soh, Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2017). **Noise in Mylyn Interaction Traces and Its Impact on Developers and Recommendation Systems**. Springer Journal of Empirical Software Engineering. N/A: N/A.
Co-Author
Published,
Refereed?: Yes
32. Fehmi Jaafar, Angela Lozano, Yann-Gaël Guéhéneuc, and Kim Mens. (2017). **Analyzing Software Evolution and Quality by Extracting Asynchrony Change Patterns**. Elsevier Journal of Systems and Software. 131: 311–322.
Co-Author
Published,
Refereed?: Yes
33. Le An, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2017). **An Empirical Study of Crash-inducing Commits in Mozilla Firefox**. Springer Software Quality Journal. N/A: 1–32.
Co-Author
Published,
Refereed?: Yes
34. Wenbin Li, Jane Huffman Hayes, Giulio Antoniol, Yann-Gaël Guéhéneuc, Bram Adams. (2016). **Error Leakage and Wasted Time: Sensitivity and Effort Analysis of a Requirements Consistency Checking Process**. Wiley Journal of Software: Evolution and Process. 28(12): 1061–1080.
Co-Author
Published,
Refereed?: Yes
35. Fehmi Jaafar, Yann-Gaël Guéhéneuc, Sylvie Hamel, Foutse Khomh, and Mohammad Zulkernine. (2016). **Evaluating the Impact of Design Pattern and Anti-pattern Dependencies on Changes and Faults**. Springer Journal of Empirical Software Engineering. 21(3): 896–931.
Co-Author
Published, Springer,
Refereed?: Yes, Synthesis?: No
36. Yann-Gaël Guéhéneuc, Gihwon Kwon, Pornsiri Muenchaisri. (2016). **Guest Editorial for the Special Section with the Extensions to the Best Papers from APSEC'13 and APSEC'14**. Elsevier Information and Software Technology. 74: 181–182.
Co-Editor
Published,
Refereed?: No
37. Wei Wu, Foutse Khomh, Bram Adams, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2016). **An Exploratory Study of API Changes and Usages based on Apache and Eclipse Ecosystems**. Springer Journal of Empirical Software Engineering. 21(6): 2366–2412.
Co-Author
Published,
Refereed?: Yes

38. Jane Huffman Hayes, Alexander Dekhtyar, Jody Larsen, and Yann-Gaël Guéhéneuc. (2016). **Effective Use of Analysts' Effort in Automated Tracing**. Springer Requirements Engineering. N/A: 1–25.
Co-Author
Published,
Refereed?: Yes
39. José Côté, Sylvie Cossette, Pilar Ramirez-Garcia, Alexandra De Pokomandy, Catherine Worthington, Marie-Pierre Gagnon, Patricia Auger, François Boudreau, Joyal Miranda, Yann-Gaël Guéhéneuc, and Cécile Tremblay. (2015). **Evaluation of a Web-based Tailored Intervention (TAVIE en santé) to Support People Living with HIV in the Adoption of Health Promoting Behaviours: an Online Randomized Controlled Trial Protocol**. BMC Public Health. 15: N/A.
Co-Author
Published,
Refereed?: Yes
40. Nasir Ali, Zohreh Sharafi, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2015). **An Empirical Study on the Importance of Source Code Entities for Requirements Traceability**. Springer Journal of Empirical Software Engineering. 20(2): 442–478.
Co-Author
Published, Springer,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
41. Yann-Gaël Guéhéneuc and Tom Mens. (2015). **Guest Introduction to the Special Issue on Software Maintenance and Evolution Research**. Springer Journal of Empirical Software Engineering. N/A: N/A.
Co-Editor
Published,
Refereed?: No
42. José Côté, Gaston Godin, Pilar Ramirez-Garcia, Geneviève Rouleau, Anne Bourbonnais, Yann-Gaël Guéhéneuc, Cécile Tremblay, and Joanne Otis. (2015). **Virtual Intervention to Support Self-Management of Antiretroviral Therapy Among People Living With HIV**. JMIR Publications Journal of Medical Internet Research. 17(1): e6.
Co-Author
Published, JMIR,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 8
43. Abdelilah Sakti, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2015). **Instance Generator and Problem Representation to Improve Object Oriented Code Coverage**. IEEE Transaction on Software Engineering. 41(3): 294–313.
Co-Author
Published,
Refereed?: Yes
44. Wei Wu, Adrien Serveaux, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2015). **The Impact of Imperfect Change Rules on Framework API Evolution Identification: an Empirical Study**. Springer Journal of Empirical Software Engineering. 20(4): 1126–1158.
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