

Gilles Perrouin, Ph.D.

✉ gilles.perrouin@unamur.be

🐦 @GPerrouin

🌐 <https://directory.unamur.be/staff/gperroui>

🌐 <https://scholar.google.com/citations?user=SeG1h04AAAAJ&hl=en>



Research Summary

- Researching on software product lines testing, using combinatorial interaction testing, mutation testing, search-based software engineering and uniform random sampling methods. Since 2019, involved in trustworthy AI initiatives and the use of machine learning for SPL and vice-versa. Research contributions involve lightweight formal methods and empirical investigations.

Scientific Career

- Since Oct. 2017 **FNRS Research Associate (“Chercheur Qualifié”). Tenured Research Scientist.** PRECISE/NADI, Faculty of Computer Science, University of Namur, Belgium.
- 2012 – 2015 **FNRS Postdoctoral Researcher (“Chargé de Recherches”, Competitive 3-year Grant).** PRECISE, Faculty of Computer Science, University of Namur, Belgium.
- 2010 – 2012 **Postdoctoral Researcher.** PRECISE, Faculty of Computer Science, University of Namur, Belgium.
- 2007 – 2009 **Postdoctoral Researcher.** IRISA/INRIA Rennes Bretagne Atlantique Triskell Team, University of Rennes I, Rennes, France.
- 2004 – 2007 **Ph.D., University of Luxembourg, Luxembourg & University of Namur, Belgium in Software Engineering.**

Community Service (selected)

- Program Chair **27th ACM International Systems And Software Product Line Conference, SPLC 2023, 28 August-1st September 2023, Tokyo, Japan.**
- 20th International Conference on Software Reuse, ICSR 2022, June 15-17, Montpellier, France.**
- 3rd ACM SIGSOFT International Workshop on Machine Learning Techniques for Software Quality Evaluation** co-located with the 27th ACM FSE, Tallinn, Estonia, 26-30 August 2019
- 13th International Workshop on Variability Modelling of Software-Intensive Systems, Leuven, Belgium.** February 6-8, 2019. ACM.
- 1st International Workshop on Machine Learning and Software Engineering in Symbiosis,** co-located with The 33rd IEEE/ACM ASE, Montpellier, France, September 2018. IEEE.
- 2nd Int’l on Software Product Line Analysis Tools,** co-located with the Software Product Line Conference (ACM), Nashville, TN, USA, 2015.
- 6th “Journée Lignes de Produits” (French-speaking workshop dedicated to Software Product Lines),** Paris, France, Nov 2013.
- 1st Int’l Workshop on Variability-intensive Systems Testing, Validation & Verification,** co-located with ICST, Berlin, Germany, 2011.

Community Service (selected) (continued)

- Guest Editor **Journal of Systems and Software**, Special issue on Intelligent Software Product Lines (with Iris Reinhartz-Berger and David Benavides), 2024.
Journal of Systems and Software, Special issue on Software Reuse for the Next Generation (with Abdelhak-Djamel Seriai and Naouel Moha), 2022.
Software & Systems Modelling journal, Special Theme on Model-based Testing, (with Mike Papadakis and Shaukat Ali). 2016.
- Associate Editor **Transactions On Software Engineering and Methodology** journal (since April 2020). Publisher: ACM
- Selected Committees **InternetWare**: 15th Asia-Pacific Symposium on Internetware, 2024.
AST: ACM/IEEE International Conference on Automation of Software Test, 2023-2024.
ICST: IEEE International Conference on Software Testing, Verification and Validation (Research Track), 2022-2023.
VAMOS: ACM International Workshop on Variability Modelling of Software-Intensive Systems, 2017–2024.
SPLC: ACM Software Product Line Conference, 2014 – 2024.
QSIC/QRS: IEEE Conference on Quality Software / Quality, Reliability and Security, 2013 – 2024.
CAISE: Conference on Advanced Information Systems Engineering (Springer), 2012–2016.


Distinctions & Awards

- 2024 **Most Influential Paper Award**, 18th International Working Conference on Variability Modelling of Software-Intensive Systems (VAMOS)
- 2023 **Distinguished Reviewer Award**, 16th IEEE International Conference on Software Testing, Verification and Validation (ICST)
- 2019 **Distinguished Reviewer Award**, 23rd International Systems and Software Product Line Conference (SPLC)
- 2011 **Best poster award**, Grascomp Day (ULB, Brussels, Belgium): “Deriving Configuration Interfaces from Feature Models” (with Quentin Boucher and Patrick Heymans)

Supervision, Jurys & Teaching

- PhD Supervision **I supervise(d) the following PhD students at the University of Namur:**
- **Alix Decrop** (Since Sep. 2023). Role: Promoter (co-promoter: Prof. Pierre-Yves Schobbens);
 - **Antoine Gratia** (Since Jul. 2021). Role: Promoter (co-promoter: Prof. Pierre-Yves Schobbens);
 - **Sophie Fortz** (Sept. 2019-2023). Role: Promoter (co-promoter: Prof. Patrick Heymans);
 - **Edilton Lima dos Santos** (Sept. 2019-2023). Role: Promoter (co-promoter: Prof. Pierre-Yves Schobbens).
- MSc Supervision **I was promoter or co-promoter of 14 master theses since 2009, many of them in collaboration with the Universities of Rennes and Luxembourg.**


Supervision, Jurys & Teaching (continued)

PhD Committees  I belong(ed) to the accompanying committee of the following PhD theses:

- Olivier Zeyen, University of Luxembourg, Luxembourg;
- Antoine Gratia, University of Namur;
- Edilton Lima Dos Santos, (Sept. 2023), University of Namur;
- Sophie Fortz, University of Namur;
- Maouaheb Belarbi, University of Namur;
- Wei Ma, University of Luxembourg, Luxembourg;
- Maouaheb Belarbi, UNamur, Belgium;
- Hugo Martin, University of Rennes I, France;
- Géraldin Nanfack, University of Namur;
- Quentin Boucher, University of Namur;
- Xavier Devroey, University of Namur;
- Christophe Limbrée, UCLouvain.

PhD Jurys  Since 2014:

- Quentin Boucher (Sept. 2014), University of Namur;
- Christopher Henard (May. 2015), University of Luxembourg;
- Martin Mahaux (Jun. 2017), University of Namur;
- Xavier Devroey (Aug. 2017), University of Namur;
- Denis Darquennes (Dec. 2017), University of Namur;
- Christophe Limbrée, (Dec. 2019), University of Louvain (UCLouvain);
- Nicolas Hlad, (Oct. 2022), University of Montpellier;
- Géraldin Nanfack, (Nov. 2022), University of Namur;
- Ahmed Khanfir, (Mar. 2023), University of Luxembourg (SnT);
- Edilton Lima Dos Santos, (Sept. 2023), University of Namur;
- Sophie Fortz, (Sept. 2023), University of Namur;
- Maouaheb Belarbi, (Sept. 2023), University of Namur;

Teaching 

- **Software Testing** course, 2018-2023, MSc Level, University of Namur.
- **Modelling** course (UML/MDE), 2012–2014,, BSc Level, University of Namur
- **Software Engineering Tools**, 2002–2004, BSc level, University of Luxembourg and various assistant duties for JAVA courses and programming projects.