Gwendal Jouneaux

Ph.D. Student at IRISA/DiverSE Team

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Academic Positions

2020 – · · · ·   🔖 **Doctoral Researcher & Teaching Assistant**   IRISA – University of Rennes
Thesis title : *"Self-Adaptable Operational Semantics"*
Advisors :
  – Pr. Benoit Combemale
  – Pr. Olivier Barais
  – Pr. Gunter Mussbacher

Education

2020 – · · · ·   🔖 **Ph.D., IRISA & University of Rennes** – Software Engineering
Thesis title: *Self-Adaptable Operational Semantics*

2019 – 2020   🔖 **Research master, University of Rennes (ISTIC)** – Computer science   *Double degree*
Focus on Model-driven engineering, Software Languages and distributed systems.
Thesis title: *Self-Adaptable Virtual Machines*.

2015 – 2020   🔖 **Engineering degree, Engineering school of Rennes (ESIR)** – Software Engineering
Focus on Software Architecture, Languages and Compilers, Data Science and AI.
Thesis title: *Self-Adaptable Virtual Machines*.

Teaching

In parallel to my PhD, I am a teaching assistant at the "École Supérieure d'Ingénieurs de Rennes" (ESIR) and at the computer science department of the University of Rennes 1 (ISTIC), where I give lectures and supervise labs. The following table sums up my teaching activity. Alongside my teaching activity, I also supervised students during their internship.

Course name	Institute	Level	CM	TD	TP	Exam	Total
Network and IoT security	ESIR	Master 1	8	12	12	2	34
Software Engineering methods	ESIR	Master 1	-	-	28	-	28
Software V&V	ESIR	Master 1	-	-	36	2	38
DevOps & Continuous delivery	ESIR	Master 2	-	-	24	4	28
Advanced Software Engineering	ESIR	Master 2	-	-	48	4	52
Software engineering	ISTIC	Bachelor 2	-	-	48	-	48
Object-Oriented Modeling	ISTIC	Bachelor 3	-	24	24	-	48
Database	ISTIC	Master 1	-	-	6	-	6
Web engineering	ISTIC	Master 1	-	-	27	-	27
Model-Driven engineering	ISTIC	Master 2	-	-	21	-	21
Software V&V	ISTIC	Master 2	-	-	32	2	34
			8	36	306	14	364

Teaching activity (in hours) – CM = Lectures, TD = Seminars, TP = Practical sessions

Miscellaneous Experience

Certifications

2019   🔖 **Certified level N5 at the Japanese-Language Proficiency Test (JLPT)**.
Awarded by the Japan Foundation and Japan Educational Exchanges and Services.

🔖 **Certified professional level in English** TOEIC 915/990
Awarded by Educational Testing Service (ETS).

Services

2020-2022   🔖 **Organization of the research team weekly seminar**.

2021   🔖 **Student volunteer at ICPE 2021**.

2022   🔖 **Part of the organization of the lab department weekly seminar**.

2022-2023   🔖 **Co-publication chair at ICT4S 2023**.

Publications

Research Articles

1. Gunter Mussbacher, Benoit Combemale, Jörg Kienzle, Lola Burgueño, Antonio Garcia-Dominguez, Jean-Marc Jézéquel, **Gwendal Jouneaux**, Djamel-Eddine Khelladi, Sébastien Mosser, Corinne Pulgar, Houari Sahraoui, Maximilian Schiedermeier, and Tijs van der Storm. 2024. Polyglot software development: wait, what? *IEEE Software*, (Jan. 2024), 1–8. 🔗 DOI: 10.1109/MS.2023.3347875.

2. **Gwendal Jouneaux**, Damian Frölich, Olivier Barais, Benoit Combemale, Gurvan Le Guernic, Gunter Mussbacher, and L. Thomas van Binsbergen. 2023. Adaptive structural operational semantics. In *Proceedings of the 16th ACM SIGPLAN International Conference on Software Language Engineering* (SLE 2023). Association for Computing Machinery, Cascais, Portugal, 29–42. ISBN: 9798400703966. 🔗 DOI: 10.1145/3623476.3623517.

3. **Gwendal Jouneaux**, Olivier Barais, Benoit Combemale, and Gunter Mussbacher. 2021. Seals: a framework for building self-adaptive virtual machines. In *Proceedings of the 14th ACM SIGPLAN International Conference on Software Language Engineering* (SLE 2021). Association for Computing Machinery, Chicago, IL, USA, 150–163. ISBN: 9781450391115. 🔗 DOI: 10.1145/3486608.3486912.

4. **Gwendal Jouneaux**, Olivier Barais, Benoit Combemale, and Gunter Mussbacher. 2021. Towards self-adaptable languages. In *Proceedings of the 2021 ACM SIGPLAN International Symposium on New Ideas, New Paradigms, and Reflections on Programming and Software* (Onward! 2021). Association for Computing Machinery, Chicago, IL, USA, 97–113. ISBN: 9781450391108. 🔗 DOI: 10.1145/3486607.3486753.

5. Manuel Leduc, **Gwendal Jouneaux**, Thomas Degueule, Gurvan Le Guernic, Olivier Barais, and Benoit Combemale. 2020. Automatic generation of truffle-based interpreters for domain-specific languages. *Journal of Object Technology*, 19, 2, (July 2020), 1:1–21. Richard Paige and Antonio Vallecillo, editors. The 16th European Conference on Modelling Foundations and Applications (ECMFA 2020). 🔗 DOI: 10.5381/jot.2020.19.2.a1.

Other Publications

6. **Gwendal Jouneaux**. 2022. Towards self-adaptable languages. Blog Post. (Feb. 2022). 🔗 https://modeling-languages.com/towards-self-adaptable-languages/.

7. **Gwendal Jouneaux**. 2021. Towards self-adaptable languages. Poster at SPLASH 2021 Demos and Posters Track. (2021). 🔗 https://www.gwendal-jouneaux.fr/assets/pdf/Poster-Onward21.pdf.