



Léo Henry

Curriculum Vitae

Qualifications

- 3/12/2021 **Thesis defense**, *Université Rennes 1*, Rennes.
Jury Composition :
President : Didier LIME Professeur, LS2N, École Centrale de Nantes
Rapporteurs : Étienne ANDRÉ Professeur, LORIA Université de Lorraine
Frits VAANDRAGER Full Professor, Radboud University Nijmegen
Examiners : Nicolas BASSET Maître de Conférences, VERIMAG, U. Grenoble-Alpes
Delphine LONGUET Maître de Conférences, LRI, Univ. Orsay
Stavros TRIPAKIS Associate Professor, NorthEastern Univ. Boston (USA)
Doctoral advisors : Nicolas MARKEY, Directeur de recherche, CNRS, Université de Rennes
Thierry JÉRON, Directeur de recherche, INRIA Rennes.
- 2018 **Master degree in Computer Science**, *Université de Rennes*, Rennes.
Scientific speciality
- 2018 **Magistère of the Computer Science Department**, *École Normale Supérieure de Rennes*, Rennes.
- February- **Internship "Test synthesis for timed systems : a model-based approach"**,
Jully 2018 *IRISA*, Rennes.
under supervision of Nicolas Markey and Thierry Jéron.
- may-jully **Internship "Deep learning for combinatorial optimization".**, *MILA Lab*,
2017 Montreal.
under supervision of Yoshua Bengio.
- may-jully **Internship "Use of convolutional neural networks for automated classification
2016 of agricultural plots by remote sensing"**, *OBELIX Team -IRISA*, Rennes.
under supervision of Romain Tavenard.

Other qualifications

- 2023 **Mental Health First Aider**, *University College London*, London.

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Professional Experience

- October 2025–Today **ATER**, *Aix-Marseille Université*, Marseille.
LIS ; équipe MOVE
- October 2024–March 2025 **Postdoctoral Research Assistant**, *Royal Holloway University London*, London.
supervised by Matteo Sammartino
- March 2022 – May 2024 **Research Fellow**, *Computer Science department, University College London*, London.
Part of the Programming Principles, Logic and Verification group, supervised by Alexandra Silva.
- December 2023 **Dagstuhl seminar 23492**, *Model Learning for Improved Trustworthiness in Autonomous Systems*.
- May 2019 – September 2021 **Organisation of the Makushita seminar**.
I animated and co-organized the Makushita scientific seminar for non-permanent members of the SUMO and LogicA teams. Our purpose was to help young members (aka us) to exchange on exciting subjects, help them to know each other('s work) better, and train some presentations, especially for undergrad interns.
- October 2018 – December 2021 **PhD thesis "There and back again : formal methods and model learning for real-time systems"**, *IRISA*, Rennes.
in the SUMO team under supervision of Nicolas Markey and Thierry Jéron.

Publications

For an up-to-date list of my publications, see my [dblp page](#) or my [web page](#) (with PDF access).

- Léo Henry, Thomas Neele, Mohammad Reza Mousavi, Matteo Sammartino. *Compositional Active Learning of Synchronizing Systems through Automated Alphabet Refinement*. Best paper CONCUR 2025.
- Léo Henry, Thierry Jéron, Nicolas Markey, Victor Roussanally. *Distributed Monitoring of Timed Properties*. RV 2024.
- Léo Henry, Blaise Genest, Alexadre Drewery. *Reinforcement Planning for effective ε -optimal policies in dense time with discontinuities*. FSTTCS 2023.
- Tiago Ferreira, Léo Henry, Raquel Fernandes da Silva, Alexandra Silva. *Conflict-Aware Active Automata Learning*. GandALF 2023.
- Léo Henry, Thierry Jéron, Nicolas Markey. *Control Strategies for Off-Line Testing of Timed Systems (journal version)*. FMSD Janvier 2023

I defended my [thesis](#) at this time (december 2021).

- Patricia Bouyer, Léo Henry, Samy Jaziri, Thierry Jéron, Nicolas Markey. *Diagnosing timed automata using timed markings*. STTT Mars 2021.
- Léo Henry, Thierry Jéron, Nicolas Markey. *Active Learning of Timed Automata with Unobservable Resets*. FORMATS 2020
- Léo Henry, Thierry Jéron, Nicolas Markey. *Control Strategies for Off-Line Testing of Timed Systems*. SPIN 2018

Internship supervisor

- October 2019 - March 2020 **Alexandre Drewery**, *Master 1 Project - ENS Rennes : 2h/week*, Co-supervised with Blaise Genest.
This project aimed to further our understanding of stochastic timed automata and evaluate the possibility of learning these models by reinforcement. A conference paper was produced based on this project.
- October 2020 - March 2021 **Pierre Bourse**, *Master 1 Project - ENS Rennes : 2h/week*, Co-supervised avec my doctoral advisors.
Generalize the learning algorithms proposed during my thesis.

Teachings

2025-2026 :

Practical sessions : Automata and Formal Languages, L2 - Mathematic and Computer Science

Practical sessions : Algorithmic 2, L3 - Computer Science

Course supervisor : Algorithmic and Programmation, L2 of Mathematics : remote teaching.

Practical sessions : Program Analysis, M1 - Computers' Reliability and Security.

Course supervisor : Compilation, L3 - Mathematic Computer Science and double bachelor Mathematics and Computer Science.

Course supervisor : Operating Systems, L2 - Mathematic Computer Science and double bachelor Mathematics and Computer Science.

Practical sessions : Probabilities and Statistics for Computer Science, L2 - Computer Science.

2022-2023 :

Seminars : Mathematical tools for Computer Science, 1st year UCL, class by Louis Parlant.

2020-2021 :

Seminars : Algorithmic 1, 1st year ENS Rennes, class by François Schwarzentruher.

Seminars : Formal languages, 1st year ENS Rennes, class by Gilles Lesventes

Seminars : Logic, L3 ISTIC (Université Rennes 1), class by Sophie Pinchinat.

2019-2020 :

Practical sessions : Functional programming (in CamL), 1st year INSA Rennes, class by Barbara Kordy.

Seminars : Algorithmic 1, 1st year ENS Rennes, class by François Schwarzentruher.

Seminars : Logic, L3 ISTIC (Université Rennes 1), class by Sophie Pinchinat.

2018-2019 :

Practical sessions : Functional programming (in CamL), 1st year INSA Rennes, class by Barbara Kordy.

Seminars and practical sessions : Calculability, L3 ISTIC (Université Rennes 1), class by Gilles Lesventes.

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Programming skills

Basic MATLAB, Linux, HTML, ISABELLE
Intermediate C, C++, COQ, SCALA
Advanced PYTHON, CAML, L^AT_EX

Languages

French **native language**

English **Intermediate**

Able of a fluid discussion, used to reading scientific papers.

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