

# Léo Henry

## Curriculum Vitae

### Training

- 2017-2018 **Master 2 SIF (Computer Science)**, *École Normale Supérieure de Rennes / Université Rennes1*, Rennes.
- 2016-2017 **First year MSc in computer science**<sup>1</sup>, *École Normale Supérieure de Rennes*, Bruz.
- 2015-2016 **Third year BSc in computer science**, *École Normale Supérieure de Rennes*, Bruz.
- 2013-2015 **preparatory classes MPSI/MP\* (mathematics)**, *Lycée Thiers*, Marseille.
- June 2013 **Scientific Baccalaureate**, *Lycée Thiers*, Marseille, Obtained with distinction.

### Professional Experience

- October 2018 **PhD thesis in the SUMO<sup>2</sup> team under supervision of Nicolas Markey<sup>3</sup> and Thierry Jérón<sup>4</sup> : "Optimal test case generation using game theory"**, *IRISA*, Rennes.
- February-  
July  
2018 **Internship under supervision of Nicolas Markey and Thierry Jérón : "Test synthesis for timed systems : a model-based approach"**, *IRISA*, Rennes.
- may-july  
2017 **Internship under supervision of Yoshua Bengio<sup>5</sup> : "Deep learning for combinatorial optimization"**, *MILA Lab*, Montreal.
- may-july  
2016 **Internship with Romain Tavenard<sup>6</sup> : "Use of convolutional neural networks for automated classification of agricultural plots by remote sensing"**, *OBELIX Team -IRISA*, Use of deeps CNN to achieve time series classification. You can find the final report (Learning salient features for time series classification) on my website.
- July 2013 **BAFA organizer, practical training**, Les Fauvettes, Noirmoutier island.  
BAFA is mainly a youth work diploma<sup>7</sup>

### Publications

Léo Henry, Thierry Jérón, Nicolas Markey : Active Learning of Timed Automata with Unobservable Resets. FORMATS 2020

Léo Henry, Thierry Jérón, Nicolas Markey : Control Strategies for Off-Line Testing of Timed Systems.

1. [http://www.ens-rennes.fr/ens-rennes-english-version-253208.kjsp?RH=KERLANN\\_FR](http://www.ens-rennes.fr/ens-rennes-english-version-253208.kjsp?RH=KERLANN_FR)
2. <https://www.irisa.fr/sumo/>
3. <http://people.irisa.fr/Nicolas.Markey/>
4. <http://www.irisa.fr/prive/jeron/>
5. [http://www.iro.umontreal.ca/~bengioy/yoshua\\_en/](http://www.iro.umontreal.ca/~bengioy/yoshua_en/)
6. <http://perso.univ-rennes2.fr/en/romain.tavenard>
7. in french, <http://www.jeunes.gouv.fr/formations-et-metiers-de-1/bafa-bafd/article/1e-bafa>

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SPIN 2018

*Accepted but yet to appear :*

Patricia Bouyer, Léo Henry, Samy Jaziri, Thierry Jéron, Nicolas Markey : Diagnosing timed automata using timed markings (journal version). STTT

*currently submitted and under review :*

Léo Henry, Thierry Jéron, Nicolas Markey : Control Strategies for Off-Line Testing of Timed Systems (journal version). FMSS

## Teachings

2018-2019 :

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

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

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 Rennes 1, class by Sophie Pinchinat.

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 Rennes 1, class by Sophie Pinchinat.

## Programming skills

Basic MATLAB, HTML

Intermediate PYTHON, C, C++, Linux, ISABELLE, SCALA

Advanced CAML, L<sup>A</sup>T<sub>E</sub>X

## Languages

French **native language**

English **Intermediate**

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

## Interests

- Reading

- Music

- Nature

- Guitar : second year in specialised cycle at Marseille's conservatoire (music academy), 10 years of study.