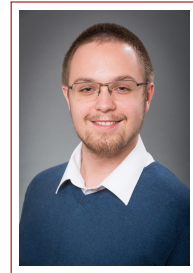# Gaëtan Staquet

PhD Student in Theoretical Computer Science

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 DocSkellington

Academic CV — Last updated on March 31, 2021.

Research experience

October 2020 – Present
PhD Thesis, *UMONS (University of Mons) and UAntwerpen (University of Antwerp)*, Belgium.
Title: Improvement of the state of the art regarding the theory of learning algorithms for automata models extended with resources and its applications to black-box model-checking.
Supervisors: Véronique Bruyère (UMONS) and Guillermo A. Perez (UAntwerpen). F.R.S.-FNRS Research Fellow.

December 2019 – June 2020
Master's Thesis, *UMONS*, Belgium.
Title: Efficient Learning of Automata and Automata with One Counter.
Supervisor: Véronique Bruyère (UMONS). Grade: 19/20.

September 2019 – December 2019
Internship, *UAntwerpen*, Belgium.
Implementation of an active learning algorithm for Visibly One-Counter Automata.
Supervisor: Guillermo A. Perez.

August 2018
Research initiation internship, *UMONS*, Belgium.
Subject: Efficient algorithms for Nash equilibrium computation.
Supervisors: Aline Goeminne, Thomas Brihaye, Véronique Bruyère, and Hadrien Mélot.

Education

2020 – 2024 **Joint PhD in Computer Science**, *UMONS and UAntwerpen*, Belgium.

2018 – 2020 **MSc in Computer Science**, *UMONS*, Belgium, Summa Cum Laude.

2015 – 2018 **BSc in Computer Science**, *UMONS*, Belgium, Magna Cum Laude.
Exchange year at University of Montreal, Canada, in 2017.

Publication

Peer-reviewed conference proceedings

[KJLSW20] **Optimization of Answer Set Programs for Consistent Query Answering by Means of First-Order Rewriting**. Aziz Amezian El Khalfioui, Jonathan Joertz, Dorian Labeeuw, Gaëtan Staquet and Jef Wijsen. *29th ACM International Conference on Information and Knowledge Management (CIKM)*, 2020 (ACM Digital Library).

Talks

Where possible, links to the slides and videos can be found on my personal page.

2020 – Optimization of Answer Set Programs for Consistent Query Answering by Means of First-Order Rewriting, *29th ACM Internal Conference Conference on Information and Knowledge Management (CIKM)*, 22 October 2020, Online.

2021 – L'apprentissage d'automates et ses applications, *Mois du doctorat (a month dedicated to popularization presentations of PhD theses)*, 10 March 2021, Online (UMons).

Attended research events

2021 – European joint conference On Theory And Practice of Software (ETAPS), Online.

2020 – 29th ACM Internal Conference Conference on Information and Knowledge Management (CIKM), Online.

– Eleventh International Symposium on Games, Automata, Logics, and Formal Verification (GandALF), Online.

– Highlights in Logic, Games, and Automata, Online.

– MOVEP Summer School, Online.

2019 – Workshop - Theory and Algorithms in Graph and Stochastic Games, UMONS, Belgium.

Teaching

First semester of academic year 2020 - 2021 | **Challenges in Artificial Intelligence**, *Teaching assistant*, UMONS.
Teaching assistant supervising the practical sessions.

First semester of academic years 2018 - 2019, and 2019 - 2020	**Programming and Algorithms I**, *Student teaching assistant*, UMONS. Student teaching assistant supervising the practical sessions (Python 3).
Second semester of academic years 2018 - 2019, and 2019 - 2020	**Programming and Algorithms II**, *Student teaching assistant*, UMONS. Student teaching assistant supervising the practical sessions (Java 11).
August 2016	**Programming and Algorithms I and II**, *Student tutor*, UMONS. Gave courses to students retaking an exam.

Languages

French (Native speaker), English (B2).

Programming skills

Modern C++, LaTeX, Java, Python, C, Prolog, Clingo ASP.

Miscellaneous

Programming contests	I won the 454th place (out of 5558) in University CodeSprint, and my team won the 43d place in BAPC.
Driving	License B