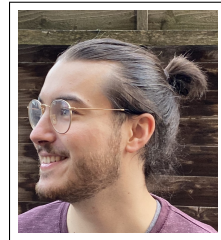


Clément Tamines

PhD Student in Computer Science

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I am a PhD student in the Computer Science department at the University of Mons (UMONS) in Belgium. I am co-supervised by Véronique Bruyère (UMONS) and Jean-François Raskin (Université libre de Bruxelles). My research interests regard equilibria in non-zero-sum multiplayer games and solving parity and generalized parity games. I am also very interested in the field of machine learning.

Education

- 10/2018 – 09/2022 **PhD in Science**, *Computer Science*, University of Mons, Belgium.
- 10/2019 – 03/2020 **University Certificate**, *Artificial Intelligence*, University of Mons, Belgium.
Graduated *Magna Cum Laude*.
- 09/2016 – 08/2018 **Master of Science**, *Computer Science*, University of Mons, Belgium.
Graduated *Summa Cum Laude*.
- 09/2013 – 08/2016 **Bachelor of Science**, *Computer Science*, University of Mons, Belgium.
Graduated *Cum Laude*.

Academic Experience

- 10/2018 – 09/2022 **PhD Thesis**, *University of Mons*.
Title Equilibria in Multiplayer Games with Multiple Objectives.
Directors Véronique Bruyère (UMONS) and Jean-François Raskin (ULB).
- 10/2018 – 01/2022 **Teaching Assistant**, *University of Mons*.
 - Algorithmics and Bioinformatics: Java 8 project on DNA fragment assembly.
- 09/2018 – 08/2019 **Supervisor**, *University of Mons*.
 - Research internship on symbolic solving of games using Binary Decision Diagrams.
 - Master student project on window techniques for solving parity games.
- 09/2016 – 05/2018 **Student Teaching Assistant**, *University of Mons*.
 - Programming and algorithmics I (Python 3).
 - Programming and algorithmics II (Java 8).

Professional Experience

- 09/2017 – 11/2017 **Internship in Software Development**, *Thales Belgium SA*. Tubize, Belgium.
Design and implementation of a constraint programming model handling the network generation part of a radio configuration tool. The implementation was done using Java 8 and the Choco Solver constraint programming library.

Publications

- [BPRT19a] Véronique Bruyère, Guillermo A. Pérez, Jean-François Raskin, and Clément Tamines. **Partial Solvers for Generalized Parity Games**. In *Reachability Problems - 13th International Conference, RP 2019, Brussels, Belgium, September 11-13, 2019, Proceedings*, pages 63–78, 2019.
- [BPRT19b] Véronique Bruyère, Guillermo A. Pérez, Jean-François Raskin, and Clément Tamines. **Partial Solvers for Generalized Parity Games (Full Version)**. *CoRR*, abs/1907.06913, 2019.
- [BRT21] Véronique Bruyère, Jean-François Raskin, and Clément Tamines. **Stackelberg-Pareto Synthesis (Full Version)**. *CoRR*, abs/2102.08925, 2021.

Programming Skills

Python	Tensorflow (Keras), Scikit-learn, PyTest, Jupyter Notebook, Matplotlib
Cloud service	Google Colaboratory, FloydHub
Java 8	Swing, JUnit, Choco Solver
Tools	Git, Maven, JetBrains suite, Eclipse

Languages

French	Native language.
English	Full professional proficiency.
Dutch	Notions (looking to improve).

Talks

- 2021 **Stackelberg-Pareto Synthesis**, MFV Seminar, 24/03, Brussels, Belgium.
- 2020 **Formal Verification Using Games**, Youth Seminar, 05/03, Mons, Belgium.
- 2019 **Partial Solvers for Generalized Parity Games**, Highlights'19, 18/09, Warsaw, Poland.
- Partial Solvers for Generalized Parity Games**, RP'19, 11/09, Brussels, Belgium.
- Partial Solvers for Generalized Parity Games**, MoRe'19, 22/06, Vancouver, Canada.
- Your Turn to Play!**, Math & Science Days'19, 29/03, Mons, Belgium.

Attended Research Events

- 2021 **Reinforcement Learning: from Theory to Practice**, summer school, online.
- Theoretical Foundations of Computer Systems Boot Camp**, online.
- 2020 **GandALF: Games, Automata, Logics, and Formal Verification**, online.
- Highlights of Logic, Games and Automata**, online.
- Modelling and Verification of Parallel Processes**, MOVEP summer school, online.
- Dynamics and Information Workshop**, Tel Aviv, Israel.
- 2019 **Highlights of Logic, Games and Automata**, Warsaw, Poland.
- 13th International Conference on Reachability Problems**, Brussels, Belgium.
- LearnAut: Learning and Automata (LICS'19 workshop)**, Vancouver, Canada.
- MoRe: Multi-objective Reasoning in Verification and Synthesis**, Vancouver, Canada.
- Theory and Algorithms in Graph and Stochastic Games**, co-organizer, Mons, Belgium.
- MdC: Mardi des Chercheurs** (UMONS research event), Mons, Belgium.
- CFV Seminar**, Brussels, Belgium.
- MFV Seminar**, Brussels, Belgium.
- 2018 **Highlights of Logic, Games and Automata**, Berlin, Germany.
- Logic and learning**, FoPSS summer school, Oxford, UK.
- Modelling and Verification of Parallel Processes**, MOVEP summer school, Cachan, France.

Miscellaneous

- 2015 – 2018 **Activities and Societies**, *University of Mons*.
 - Communication manager of the General Association of Science Students.
 - Member of the Computer Science Society.
 - Student member in the council of the Faculty of Science.
- 2015 – 2018 **Student Jobs**, *University of Mons*.
 - Guiding and informing people through campus during open days.

- Informing people during student fairs (SIEP).