Guillermo A. Pérez — CV

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Education

Université libre de Bruxelles (ULB) — **Brussels, Belgium**
Ph.D. Computer Science — *2012–2016*

National Tsing-Hua University (NTHU) — **Hsinchu, Taiwan**
M.Sc. Information Systems and Applications — *2010–2012*

Universidad Tecnológica Centroamericana (UNITEC) — **Tegucigalpa, Honduras**
B.Sc. Computer Science, ***Summa cum Laude*** — *2005–2009*

Awards and Scholarships

- Outstanding Teaching Award within the Faculty of Science, University of Antwerp — *2021*
- Fondation Wiener-Anspach Post-Doctoral subsidy — *2017*
- Kurt Gödel medal for my synthesis tool AbsSynthe at FLoC Olympic Games — *2014*
- Fonds de la Recherche Scientifique (F.R.S.-FNRS) Aspirant fellowship — *2014–2018*
- International Cooperation and Development Fund (ICDF) scholarship — *2010–2012*

Employment

University of Antwerp — **Antwerp, Belgium**
Tenure-Track Assistant Professor — *October 2018–present*

Université libre de Bruxelles — **Brussels, Belgium**
Research Assistant (supported by F.R.S.-FNRS) — *January 2017–October 2018*

University of Oxford — **Oxford, United Kingdom**
Visiting Researcher — *2017*

Informática Atlántida — **Tegucigalpa, Honduras**
Software Engineer — *2008–2010*

Membership in Scientific Societies

Member of the NEXOR consortium — **Antwerp, Belgium**
Working on the next generation of cyber-physical systems at the University of Antwerp — *2021–present*

Member of Flanders Make core lab at the University of Antwerp — **Antwerp, Belgium**
The Flemish strategic research center for the manufacturing industry — *2020–present*

Languages

English: Fluent
Dutch: Fluent
Spanish: Native
French: Fluent
Mandarin Chinese: Intermediate
German: Basic

Student Supervision

PhD students

- Kasper Engelen — *2022–present*
- Shrisha Rao — *2021–present*
- Alejandro Gonzalez — *2021–present*
- Ramesh Krishnamurthy (with Prof. Denil at UAntwerp) — *2021–present*
- Florent Delgrange (with Prof. Nowé at VUB) — *2020–present*
- Gaëtan Staquet (with Prof. Bruyère at UMons) — *2020–present*
- Tim Leys — *2020–present*
- Dennis Gross (with Dr. Jansen at Radboud) — *2019–present*
- Ritam Raha (with Dr. Fijalkow at LaBRI, Bordeaux) — *2019–present*
- Raphaël Berthon (with Prof. Raskin at ULB) — *2018-2022*

Teaching

Bachelor's courses

- Compilers (Fall) — *2019–present*

Master's courses

- Mathematical Foundations of Reinforcement Learning (Fall) — *2021–present*
- Specification and Verification (Fall) — *2019–present*
- Programming Paradigms (Spring) — *2019–present*

Service

Invited speaker

Parameter Synthesis for One-Counter Automata — **France**
10th International Workshop on Weighted Automata: Theory and Applications — *2021*

Regret Minimization in Discounted-Sum Games — **Belgium**
International Symposium on Games, Automata, Logics, and Formal Verification (GandALF) — *2020*

Revisiting Synthesis for One-Counter Automata — **Germany**
22nd International Workshop on Verification of Infinite-State Systems — *2020*

Optimizing Expectation with Guarantees in POMDPs — **Belgium**
Workshop: Theory and Algorithms in Graph and Stochastic Games — *2019*

Machine Learning and Model Checking Join Forces - Dagstuhl Seminar — **Germany**
Graph-Based Reductions for Model Checking and Learning MDPs — *2018*

Competition organizer

Annual Reactive Synthesis Competition (SYNTCOMP) joint with S. Jacobs
Affiliated with the SYNT workshop series and the conference CAV, `syntcomp.org` — *2019–present*

Program chair

- Organizer of the "The Futures of Reactive Synthesis" Dagstuhl seminar (23391), with N. Fijalkow, B. Finkbeiner, and E. Polgreen — *2023*
- General and program chair of the International Conference on Concurrency Theory (CONCUR) 2023, joint with J.-F. Raskin — *2023*
- Workshop chair of the Federated Logic Conference (FLoC) 2022, joint with S. Almagor — *2022*
- Program chair of the Workshop on Synthesis (SYNT 2021), joint with E. Polgreen — *2021*
- Organizer of SYNTCOMP Camp, a satellite tutorial of ETAPS 2019 — *2019*

Program committee member

- 14th Symposium on Games, Automata, Logics, and Formal Verification (GandALF 2023) *2023*
- 34rd Benelux Conference on Artificial Intelligence and the 31th Belgian Dutch Conference on Machine Learning (BNAIC/BeNeLearn 2022) *2022*
- 16th International Conference on Reachability Problems (RP 2022) *2022*
- 11th Workshop on Synthesis (SYNT 2022) *2022*
- 36th AAAI Conference on Artificial Intelligence (AAAI 2022) *2022*
- 35th AAAI Conference on Artificial Intelligence (AAAI 2021) *2021*
- 12th Symposium on Games, Automata, Logics, and Formal Verification (GandALF 2021) *2021*
- 18th Conference on Formal Modeling and Analysis of Timed Systems (FORMATS 2020) *2020*
- 13th Conference on Reachability Problems (RP 2019) *2019*
- 8th Workshop on Synthesis (SYNT 2019) *2019*

Research Grants

co-PI of infectious DisEaSe eConomics and Ai with guaRanTEeS (DESCARTES) **€800K**
Funded by the Inter-university Research Fund (iBOF), Flanders, Belgium *2021–2024*

co-PI of Deterministic and inexpensive realizations of advanced control (DIRAC-SBO) **€468K**
Funded by Flanders Make, the strategic research center for the Flemish manufacturing industry *2020–2023*

PI of Safe Artificial Intelligence and Learning for Verification (SAILor) **€254K**
Funded by the Research Foundation - Flanders (FWO) at UAntwerp *2020–2023*

PI of Counter-Automata Algorithms for Software Verification Tools (CAST) **€205K**
Funded by the University Research Fund (BOF) at UAntwerp *2019–2023*

External co-PI of EXplainable Data Science using Formal Verification (EXoDuS)
VWData kickstarter project with Dr. Jansen jointly funded by NWO, TNO, Radboud University *2019–2023*

Software Tools

- AbsSynthe: A controller-synthesis tool from safety specifications
- GPOMCP: A partial-observation Monte Carlo Planning algorithm for the guaranteed payoff optimization problem
- Acacia-bonsai: A minimal implementation of universal coBüchi synthesis algorithms for temporal synthesis

References

- Ann Nowé, Ph.D.
  Prof. at VUB, Belgium
  Email: ann.nowe@vub.be
- Frits W. Vaandrager, Ph.D.
  Prof. at Radboud University, Netherlands
  Email: f.vaandrager@cs.ru.nl
- Joost-Pieter Katoen, Ph.D.
  Prof. at RWTH Aachen University, Germany
  Email: katoen@cs.rwth-aachen.de
- Niel Hens, Ph.D.
  Prof. at University of Antwerp
  Email: niel.hens@uantwerpen.be

Publications

[1] V. Bruyère, G. A. Pérez, and G. Staquet. "Validating Streaming JSON Documents with Learned VPAs". In: *Tools and Algorithms for the Construction and Analysis of Systems TACAS 2023*. Lecture Notes in Computer Science. To appear. Springer, 2023.

[2] M. Cadilhac and G. A. Pérez. "Acacia-Bonsai: A Modern Implementation of Downset-Based LTL Realizability". In: *Tools and Algorithms for the Construction and Analysis of Systems TACAS 2023*. Lecture Notes in Computer Science. To appear. Springer, 2023.

[3] F. Delgrange, A. Nowé, and G. A. Pérez. "Wasserstein Auto-encoded MDPs: Formal Verification of Efficiently Distilled RL Policies with Many-sided Guarantees". In: *International Conference on Learning Representations (ICLR) 2023*. To appear. 2023.

[4] D. Busatto-Gaston, D. Chakraborty, G. A. Pérez, and J. Raskin. "Formally-Sharp DAgger for MCTS: Lower-Latency Monte Carlo Tree Search using Data Aggregation with Formal Methods". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2023*. To appear. 2023.

[5] D. Gross, N. Jansen, G. A. Pérez, and C. Schmidl. "Model Checking for Adversarial Multi-Agent Reinforcement Learning with Reactive Defense Methods". In: *33rd International Conference on Automated Planning and Scheduling (ICAPS 2023)*. To appear. 2023.

[6] F. Delgrange, A. Nowé, and G. A. Pérez. "Distillation of RL Policies with Formal Guarantees via Variational Abstraction of Markov Decision Processes". In: *Thirty-Sixth AAAI Conference on Artificial Intelligence, AAAI 2022, Thirty-Fourth Conference on Innovative Applications of Artificial Intelligence, IAAI 2022, The Twelveth Symposium on Educational Advances in Artificial Intelligence, EAAI 2022 Virtual Event, February 22 - March 1, 2022*. AAAI Press, 2022, pp. 6497–6505. URL: https://ojs.aaai.org/index.php/AAAI/article/view/20602.

[7] G. A. Pérez and R. Raha. "Revisiting Parameter Synthesis for One-Counter Automata". In: *30th EACSL Annual Conference on Computer Science Logic, CSL 2022, February 14-19, 2022, Göttingen, Germany (Virtual Conference)*. Ed. by F. Manea and A. Simpson. Vol. 216. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022, 33:1–33:18. DOI: 10.4230/LIPIcs.CSL.2022.33. URL: https://doi.org/10.4230/LIPIcs.CSL.2022.33.

[8] D. Gross, N. Jansen, S. Junges, and G. A. Pérez. "COOL-MC: A Comprehensive Tool for Reinforcement Learning and Model Checking". In: *Dependable Software Engineering. Theories, Tools, and Applications - 8th International Symposium, SETTA 2022, Beijing, China, October 27-29, 2022, Proceedings*. Ed. by W. Dong and J. Talpin. Vol. 13649. Lecture Notes in Computer Science. Springer, 2022, pp. 41–49. DOI: 10.1007/978-3-031-21213-0_3. URL: https://doi.org/10.1007/978-3-031-21213-0%5C_3.

[9] V. Bruyère, G. A. Pérez, and G. Staquet. "Learning Realtime One-Counter Automata". In: *Tools and Algorithms for the Construction and Analysis of Systems - 28th International Conference, TACAS 2022, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2022, Munich, Germany, April 2-7, 2022, Proceedings, Part I*. Ed. by D. Fisman and G. Rosu. Vol. 13243. Lecture Notes in Computer Science. Springer, 2022, pp. 244–262. DOI: 10.1007/978-3-030-99524-9_13. URL: https://doi.org/10.1007/978-3-030-99524-9%5C_13.

[10] L. Daviaud et al. "When are emptiness and containment decidable for probabilistic automata?" In: *J. Comput. Syst. Sci.* 119 (2021), pp. 78–96. DOI: 10.1016/j.jcss.2021.01.006. URL: https://doi.org/10.1016/j.jcss.2021.01.006.

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[12] R. Berthon, A. Boiret, G. A. Pérez, and J. Raskin. "Active Learning of Sequential Transducers with Side Information About the Domain". In: *Developments in Language Theory - 25th International Conference, DLT 2021, Porto, Portugal, August 16-20, 2021, Proceedings*. Ed. by N. Moreira and R. Reis. Vol. 12811. Lecture Notes in Computer Science. Springer, 2021, pp. 54–65. DOI: 10.1007/978-3-030-81508-0_5. URL: https://doi.org/10.1007/978-3-030-81508-0%5C_5.

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[15] D. Busatto-Gaston, D. Chakraborty, S. Guha, G. A. Pérez, and J. Raskin. "Safe Learning for Near-Optimal Scheduling". In: *Quantitative Evaluation of Systems - 18th International Conference, QEST 2021, Paris, France, August 23-27, 2021, Proceedings*. Ed. by A. Abate and A. Marin. Vol. 12846. Lecture Notes in Computer Science. Springer, 2021, pp. 235–254. DOI: 10.1007/978-3-030-85172-9_13. URL: https://doi.org/10.1007/978-3-030-85172-9%5C_13.

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[18] D. Gross, N. Jansen, G. A. Pérez, and S. Raaijmakers. "Robustness Verification for Classifier Ensembles". In: *Automated Technology for Verification and Analysis - 18th International Symposium, ATVA 2020, Hanoi, Vietnam, October 19-23, 2020, Proceedings*. Ed. by D. V. Hung and O. Sokolsky. Vol. 12302. Lecture Notes in Computer Science. Springer, 2020, pp. 271–287. DOI: 10.1007/978-3-030-59152-6_15. URL: https://doi.org/10.1007/978-3-030-59152-6%5C_15.

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[22] M. Cadilhac, G. A. Pérez, and M. van den Bogaard. "The Impatient May Use Limited Optimism to Minimize Regret". In: *Foundations of Software Science and Computation Structures - 22nd International Conference, FOSSACS 2019, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2019, Prague, Czech Republic, April 6-11, 2019, Proceedings*. Ed. by M. Bojanczyk and A. Simpson. Vol. 11425. Lecture Notes in Computer Science. Springer, 2019, pp. 133–149. DOI: 10.1007/978-3-030-17127-8_8. URL: https://doi.org/10.1007/978-3-030-17127-8%5C_8.

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