

Nicolas Troquard's Curriculum Vitae

Personal information

The KRDB Research Centre
Faculty of Computer Science
Free University of Bozen-Bolzano
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nicolas.troquard@unibz.it

Education since leaving school

First degree

2002: Under Graduate BSc (licence) in Mathematics and Computer Science from the Université Bordeaux I (Bordeaux, France).

Post-graduate degrees

2003: Post Graduate BSc (maîtrise) in Computer Science from the Université Bordeaux I.

2004: MSc in Knowledge Representation and Reasoning from the Université Toulouse III (Toulouse, France).

PhD

2007: European jointly supervised PhD degree in Information And Communication Technology from the Università degli Studi di Trento (Trento, Italy) and in Artificial Intelligence from the Université Toulouse III (Toulouse, France).

French “qualification”: qualified candidate to the positions of “maître de conférences” (CNU 27).

Italian language certification: CELI 4 - Certificazione Italiano Generale ; level C1. Università per Stranieri di Perugia.

Present appointment

Assistant Professor (RTD, ING-INF/05) at the department of Computer Science of the Free University of Bozen-Bolzano.

Professional experience

Chronological list of all previous employments

From / to	Job title	Name of academic Institution	Academic level	responsibilities
2004/2007		CNRS – IRIT - Toulouse	Research Assistant	PhD project
2007/2010		U. Liverpool	Research Associate	Postdoc project
2010/2011		U. Essex Colchester	Senior Research Officer	Research
2011/2014		LOA-ISTC-CNR Trento	Marie Curie Fellow	Research, PI
2014/2016		U. Paris-Est Créteil	Temporary Lecturer and Researcher	Teaching (teaching 8 course / responsible of 4 courses) and research
2016/2018		KRDB, UNIBZ	Research Assistant	Research

Experience in academic teaching

June 2018: Co-teaching a course at the 20th European Agent Systems Summer School (EASSS 2018), Maastricht, The Netherlands.

3,5 hours of tutorial.
Title: “Logics of Agency”.

Spring 2018: Course assistant Free University of Bozen-Bolzano.

Operating Systems: 20 hours, laboratories; undergraduates, year 1.
Course website: <http://www.inf.unibz.it/~ntroquard/EASSS18/easss2018.html>

August 2016: Teacher of a course at the 28th European Summer School in Logic, Language and Information, Bolzano-Bozen, Italy.

7,5 hours of tutorial over 5 days.
Level: mixed.
Title: “Logics of Agency”.
Course website: http://esslli2016.unibz.it/?page_id=204

March–July 2016: Co-advisor of a Master’s thesis in Theoretical Computer Science, Université Paris-Est Créteil.

2015–2016: Teaching at Université Paris-Est Créteil, Institut Universitaire de Technologie (IUT) Sénart-Fontainebleau

Databases (1): 45 hours; lectures, practice classes, laboratories; undergraduates, year 1.

Discrete mathematics (1): 45 hours; lectures, practice classes; undergraduates, year 1.

Databases (2): 40 hours; lectures, practice classes; undergraduates, year 1.

Discrete mathematics (2): 45 hours; lectures, practice classes, laboratories; undergraduates, year 1.

2014–2015: Teaching at Université Paris-Est Créteil.

Introduction to algorithmics: 40 hours; practice classes and laboratories; 2 groups of 20-30 students; undergraduates, year 1.

Computer architecture: 36 hours; laboratories; 2 groups of 20-30 students; undergraduates, year 2.

Discrete mathematics: 72 hours; practice classes; 2 groups of 20-30 students; undergraduates, year 2.

Software engineering: 12 hours; laboratories; 1 group of 20-30 students; undergraduates, year 3.

Other academic responsibilities

Examination board membership:

Examiner at the PhD thesis defense of Faustine Maffre “Ignorance is bliss: observability-based dynamic epistemic logics and their applications”, Université Paul Sabatier, Toulouse, September 23rd 2016.

Memberships

Association memberships:

Member of the Marie Curie Alumni Association (MCAA)

Organization:

Co-chair of the track *BadOntology* at the Joint Ontology Workshops (JOWO 2018) <http://bog.inf.unibz.it/>.

PC membership:

Member of the Program Committee of over 40 conferences and workshops:

International Conference on Principles of Knowledge Representation and Reasoning KR'18, KR'16,

International Joint Conference on Autonomous Agents and Multiagent Systems AAMAS'15, AAMAS'14, AAMAS'13, AAMAS'12, AAMAS'11, AAMAS'09,

International Joint Conference on Artificial Intelligence IJCAI-ECAI'18, IJCAI'15, IJCAI'13, IJCAI'11,

AAAI Conference on Artificial Intelligence AAAI'15, AAAI'14,

European Conference on Artificial Intelligence IJCAI-ECAI'18, ECAI'14,

International Conference on Formal Ontology in Information Systems FOIS 2018.

Also: ACM/SIGAPP SAC 2019, ACM/SIGAPP SAC 2018, LAMAS 2016, EUMAS 2015, PRIMA 2015, GCAI 2015, FofAI@IJCAI 2015, LAMAS 2015, LRBA@ESSLLI 2015, ABM:MI@FedCSIS'15, ICNMC 2015, EUMAS'14, ECSI-2014, LOFT'14, OMSS14@FOIS2014, IAT'14, LAMAS 2014, IDAS@ESSLLI 2014, EUMAS 2013, JAWS@MATES'13, CLIMA XIII, FedCSIS 2012, ICAART'12, PRIMA'11, FedCSIS 2011, CLIMA XII, ICAART'11, LOFT'10, LMSC@ESSLLI'09.

Peer reviewer for:

Theoretical Computer Science; Minds and Machines; Journal of Logic and Computation; Applied Ontology; Studia Logica; Autonomous Agents and MultiAgent Systems; Knowledge Engineering Review; Artificial Intelligence; Journal of Philosophical Logic; Texts in Logic and Games; Journal of Logic, Language and Information; Journal of Applied Non-Classical Logics; Synthese; Axioms; IET Software

Ad hoc reviewer for:

AAAI'19; SR'13; WoLLIC'11; VoteID'11; TARK'09; JELIA'08; KR'08; MFI'07; AAMAS'07; IJCAI'07; WI'06; KI'06; AAAI'06; AAMAS'05; MFI'05.

Research and scholarships

Research grants and contracts

Date granted	Award Holder(s)	Funding Body	Title	Amount received
2006	Troquard	IFAAMAS	Travel grant	1200 USD
2006	Troquard	IBM	Travel grant	600 EUR
2007	Troquard	Univ Toulouse	Visiting grant	700 EUR
2011	Troquard	EU FP7 Marie Curie Actions People - PAT	Marie Curie fellowship	190,300 EUR

Publications

Chapters in books

Nicolas Troquard, Wiebe van der Hoek, and Michael Wooldridge. - Model checking strategic equilibria. - In Model Checking and Artificial Intelligence, Springer, Lecture Notes in Artificial Intelligence (LNAI), V. 5348, 2009. - pp. 166-188.

Olivier Gasquet, Andreas Herzig, *François Schwarzentruber*, and *Nicolas Troquard*. - Coalition Games over Kripke semantics: Expressiveness and complexity. - In Cédric Dégremont, Laurent Keiff, Helge Rückert (Eds.), "Dialogues, Logics and other strange things. Essays in honour of Shahid Rahman", College Publications, 2008. - pp. 5-26.

Andreas Herzig, Tiago de Lima, Emiliano Lorini, and *Nicolas Troquard*. - Three traditions in the logic of action: bringing them together. - In Robert Trypuz (Ed.), *Krister Segerberg on Logic of Actions*, Series: Outstanding Contributions to Logic, Vol. 1, Springer, 2014. - pp. 61-84.

Emanuele Bottazzi, and *Nicolas Troquard*. - On help and interpersonal control. - In *The cognitive foundations of group attitudes and social interaction*, Series: Studies in the Philosophy of Sociality, Vol. 5, Springer, 2015. - pp. 1–25.

Andreas Herzig, Emiliano Lorini, and *Nicolas Troquard*. - Action Theories. - In *Introduction to Formal Philosophy*, pages ?-?, Springer, 2018.

Journal Papers in refereed academic journals

* Philippe Balbiani, *Andreas Herzig*, and *Nicolas Troquard*. - Alternative axiomatics and complexity of deliberative STIT theories. - In *Journal of Philosophical Logic*, Springer, V.37 N.4, 2008. - pp. 387-406. - doi: 10.1007/s10992-007-9078-7.

Jan Broersen, *Andreas Herzig*, and *Nicolas Troquard*. - What groups do, can do, and know they can do: an analysis in normal modal logics. - In *Journal of Applied Non-Classical Logics*, Taylor & Francis, V.19 N.3, 2009. - pp. 261-289. - doi: 10.1007/s10992-011-9189-z.

* *Nicolas Troquard*, Wiebe van der Hoek, and Michael Wooldridge. - Reasoning About Social Choice Functions. - In *Journal of Philosophical Logic*, Springer, V.10 N.4, 2011. pp. 473-498. - doi: 10.1007/s10992-011-9189-z.

Emiliano Lorini, *Nicolas Troquard*, Andreas Herzig, and Jan Broersen. - Grounding Power on Actions and Mental Attitudes. - In *Logic Journal of the IGPL*, Oxford University Press, V.21 N.3, 2013. - pp. 311-331. - doi: 10.1093/jigpal/jzr039.

* *Nicolas Troquard*. - Reasoning about coalitional agency and ability in the logics of "bringing-it-about". In *Autonomous Agents and Multi-Agent Systems*, Springer, V.28 N.3, 2014. - pp. 381-407. - doi: 10.1007/s10458-013-9229-x.

* Daniele Porello, and *Nicolas Troquard*. - Non-normal modalities in variants of Linear Logic. In *Journal of Applied Non-Classical Logics*, Taylor & Francis, V.25 N.3, 2015. - pp. 229-255 - doi: 10.1080/11663081.2015.1080422.

Journal papers in professional journals

Nicolas Troquard. - Learning and Practice of the Property Specification Language. - In IEEE Design and Test of Computers, IEEE Computer Society Press, V.28 N.5, Sep./Oct. 2011. - pp. 110-111.

Other publications

Nicolas Troquard, Wiebe van der Hoek, and Michael Wooldridge. - A Logic of Games and Propositional Control. - In 8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'09), Budapest, Hungary, pp. 961-968, IFAMAAS, 2009.

Nicolas Troquard, Wiebe van der Hoek, and Michael Wooldridge. - A logic of propositional control for truthful implementations. - In Theoretical Aspects of Rationality and Knowledge (TARK XII), Stanford, CA, ACM DL, 2009. - pp. 237-246.

Nicolas Troquard, and Dirk Walther. - Alternating-time Dynamic Logic. - In 9th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'10), Toronto, Canada, IFAMAAS, 2010. - pp. 473-480. - cited by: 5 (gs). conference rank: A* (core).

* Wiebe van der Hoek, Nicolas Troquard, and Michael Wooldridge. - Knowledge and Control. - In 10th International Joint Conference on Autonomous Agents and Multi Agent Systems (AAMAS'11), Taipei, Taiwan, IFAAMAS, 2011. - pp. 719-726. - cited by: 17 (gs). conference rank: A* (core).

* Andreas Herzig, Emiliano Lorini, Frédéric Moisan, and Nicolas Troquard. - A dynamic logic of normative systems. - In 22nd International Joint Conference on Artificial Intelligence (IJCAI'11), Barcelona, Spain, Morgan Kaufmann, 2011. - pp. 228-233.

Andreas Herzig, Emiliano Lorini, and Nicolas Troquard. - A dynamic logic of institutional actions. - In 12th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA XII @IJCAI'11), Barcelona, Spain. Volume 6814 of Lecture Notes in Computer Science (LNCS), Springer, 2011. - pp. 295-311. -

Andreas Herzig, Tiago de Lima, Emiliano Lorini, and Nicolas Troquard. - A Computationally Grounded Dynamic Logic of Agency, with an Application to Legal Actions. - In 11th International Conference on Deontic Logic in Computer Science (DEON'12), Bergen, Norway, Springer, Lecture Notes in Artificial Intelligence (LNAI), V.7393, pp. 170-183, 2012.

* Nicolas Troquard, and Dirk Walther. - On satisfiability in ATL with strategy contexts. - In 13th European Conference on Logics in Artificial Intelligence (JELIA'12), Toulouse, France, Springer, Lecture Notes in Artificial Intelligence, (LNAI) V.7519, pp. 298-410, 2012.

Nicolas Troquard. - Coalitional Agency and Evidence-Based Ability. - In 11th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'12), Valencia, Spain, IFAAMAS, 2012. - pp. 622-624. - (short paper).

Wiebe van der Hoek, Nicolas Troquard, and Michael Wooldridge. - Reasoning about Choice. - In 2nd International Conference on Agreement Technologies (AT'13), Beijing, China, Springer, Lecture Notes in Artificial Intelligence, (LNAI) V.8068, 2013. - pp. 4-18.

* Philippe Balbiani, *Andreas Herzig*, and *Nicolas Troquard*. - Dynamic logic of propositional assignments: a well-behaved variant of PDL. - In 28th ACM/IEEE Symposium on Logic in Computer Science (LICS'13), New Orleans, USA, 2013. - pp. 143-152.

Daniele Porello, and Nicolas Troquard. - A resource-sensitive account of the use of artifacts. - In 13th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'14), Paris, France, IFAAMAS, 2014. - pp. 1549-1550. - (short paper, submitted as such.).

Daniele Porello, and Nicolas Troquard. - A resource-sensitive logic of agency. - In 21st European Conference on Artificial Intelligence (ECAI'14), Prague, Czech Republic, IOS Press, 2014. - pp. 723-728.

Stefano Borgo, Daniele Porello, and Nicolas Troquard. - Logical Operators for Ontological Modeling. - In 8th International Conference on Formal Ontology in Information Systems (FOIS 2014), Rio de Janeiro, Brazil, IOS Press, 2014. - pp. 23-36.

Nicolas Troquard. - A formal theory for conceptualizing artefacts and tool manipulations. - In 8th International Conference on Formal Ontology in Information Systems (FOIS 2014), Rio de Janeiro, Brazil, IOS Press, 2014. - pp. 119-132.

* Youssef Oualhadj, and Nicolas Troquard. - Rational verification in Iterated Electric Boolean Games. - In International Workshop on Strategic Reasoning 2016 (SR@LICS2016), New York, USA, Volume 218 of EPTCS, 2016. - pp. 41-51.

* Nicolas Troquard. - Nash equilibria and their elimination in resource games. - In 25th International Joint Conference on Artificial Intelligence (IJCAI 2016), New York, USA, AAAI Press, 2016. - pp. 503-509.

Roberto Confalonieri, *Oliver Kutz*, *Pietro Galliani*, *Rafael Peñaloza*, *Daniele Porello*, *Marco Schorlemmer*, and *Nicolas Troquard* - Coherence, Similarity, and Concept Generalisation. - In 30th International Workshop on Description Logics (Description Logics 2017). CEUR-WS 1879, 2017.

Daniele Porello, Nicolas Troquard, Roberto Confalonieri, Pietro Galliani, Oliver Kutz, and Rafael Peñaloza - Repairing Socially Aggregated Ontologies Using Axiom Weakening. - In 20th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2017). Volume 10621, LNCS, pages 441-449. Springer, 2017.

* Nicolas Troquard, Roberto Confalonieri, Pietro Galliani, Rafael Peñaloza, Daniele Porello, Oliver Kutz. - Repairing Ontologies via Axiom Weakening. - In Thirty-Second AAAI Conference on Artificial Intelligence (AAAI 2018). AAAI Press, 2018, pages 1981-1988.

* Nicolas Troquard. - Rich Coalitional Resource Games. - In Thirty-Second AAAI Conference on Artificial Intelligence (AAAI 2018). AAAI Press, 2018, pages 1242-1249. - conference rank: A* (core).

* *Daniele Porello, Nicolas Troquard, Rafael Peñaloza, Roberto Confalonieri, Pietro Galliani, Oliver Kutz.* - Two Approaches to Ontology Aggregation Based on Axiom Weakening. - In 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018), 2018. - pages 1942-1948.

Emilio Sanfilippo, Sergio Benavent, Stefano Borgo, Nicola Guarino, Nicolas Troquard, Fernando Romero, Pedro Rosado, Lorenzo Solano, Farouk Belkadi, and Alain Bernard. - Modeling manufacturing resources: An ontological approach. In IFIP 15th International Conference on Product Lifecycle Management (PLM 2018), Springer, 2018. - pages ?-?.

* Rodica Condurache, *Youssef Oualhadj*, and Nicolas Troquard. - The complexity of rational synthesis for concurrent games. - In *29th International Conference on Concurrency Theory (CONCUR 2018)*, pages 38:1-38:15, LIPIcs 118, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik.

Oliver Kutz, Nicolas Troquard, Maria Hedblom, and Daniele Porello. - The Mouse and the Ball: Towards a cognitively-based and ontologically-grounded logic of agency. - In *10th International Conference on Formal Ontology in Information Systems (FOIS 2018)*, Cape Town, South Africa, IOS Press, 2018. - pp. 141-148.

Further data

Contributed presentations at scientific conferences (selection):

2018: Rich Coalitional Resource Games. In Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, LA, USA.

2018: Repairing Ontologies via Axiom Weakening. (Flash talk + poster.) In Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, LA, USA.

2016: Nash equilibria and their elimination in resource games. In 25th International Joint Conference on Artificial Intelligence (IJCAI 2016), New York, USA.

2014: A formal theory for conceptualizing artefacts and tool manipulations. In 8th International Conference on Formal Ontology in Information Systems (FOIS 2014), Rio de Janeiro, Brazil.

2014: A resource-sensitive logic of agency. In 21st European Conference on Artificial Intelligence (ECAI'14), Prague, Czech Republic.

2014: A resource-sensitive account of the use of artifacts. In 13th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'14), Paris, France.

2013: Dynamic logic of propositional assignments: a well-behaved variant of PDL. In 28th ACM/IEEE Symposium on Logic in Computer Science (LICS 2013), New Orleans, USA.

2012: A Computationally Grounded Dynamic Logic of Agency, with an Application to Legal Actions. In 11th International Conference on Deontic Logic in Computer Science (DEON'12), Bergen, Norway.

2012: Coalitional Agency and Evidence-Based Ability. In 11th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'12), Valencia, Spain.

2010: Alternating-time Dynamic Logic. In 9th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'10), Toronto, Canada.

2009: A logic of propositional control for truthful implementations. In Theoretical Aspects of Rationality and Knowledge (TARK XII), Stanford, CA, USA.

2009: A Logic of Games and Propositional Control. In 8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'09), Budapest, Hungary.

2007: A Normal Simulation of Coalition Logic and an Epistemic Extension. In Theoretical Aspects of Rationality and Knowledge (TARK XI), Brussels, Belgium.

2006: Knowing How to Play: Uniform Choices in Logics of Agency. In 5th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'06), Hakodate, Japan.

Invited talks

August 2014: Invited speaker at 15th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA@ECAI2014), Prague, Czech Republic. Title: "Artefacts and socio-technical interactions".

August 2014: Invited participant and speaker at the Schloss Dagstuhl seminar Formal Methods for Coordinating Multi-Agent Systems, Dagstuhl, Germany. Title: "Resource-sensitive interactions".

March 2014: Invited speaker at the workshop COFUND final meeting, organised by the Provincia Autonoma di Trento, Italy. Title: "Logical analysis of Socio-Technical Systems".

June 2012: Invited speaker at 9th International Workshop on Argumentation in Multi-Agent Systems (ArgMAS@AAMAS2012), Valence, Spain. Title: "Logical Models of Action and Agency".

May 2012: Invited speaker at the Sintelnet workshop The cognitive foundations of group attitudes and social interaction, Toulouse, France. Title: "On coalitional agency and ability".

February 2012: Invited participant and discussant at the Lorentz Center seminar Modeling Strategic Reasoning, Leiden, The Netherlands. Title: "Comments on Valentin Goranko's logics for reasoning about strategic abilities in multi-player games".

March 2011: Invited tutorial at Universite de Luxembourg. Within the framework of the event AWAI (Away with AI) 2011, a research encounter about AI with Dutch students, organized by the NSVKI. Title: "Logics of agents with small models".

March 2011: Invited participant and speaker at the Schloss Dagstuhl seminar Reasoning about Interaction: From Game Theory to Logic and Back, Dagstuhl, Germany. Title: "Logics of social choice and perspectives on their software implementation".

December 2006: Invited speaker at PALMYR-4, Amsterdam, The Netherlands. Title: "Knowing how to play: uniform choices in logics of agency".

Language competence

French. Native language. Proficient user. No certification.

German. Basic user speaking understanding and writing. No certification.

English. Proficient user. Certification: TOEFL CBT 263.

Italian. Proficient user. Certification: CELI 4 (C1).

25 September 2018