

Jean-Guy Mailly | Ph.D. in Computer Science

LIPADE - Paris Descartes University, DAI Research Group, 45 rue des Saints Pères
75006 – Paris, France

✉ jean-guy.mailly@parisdescartes.fr

🌐 www.math-info.univ-paris5.fr/~jmailly • [in](https://www.linkedin.com/in/jeanguymailly) [jeanguymailly](https://www.linkedin.com/in/jeanguymailly)

Current Position

Paris Descartes University

Assistant Professor, LIPADE (Laboratoire d'Informatique de Paris Descartes) *Since Sept. 2016*
Member of the research group on Distributed Artificial Intelligence (DAI).

Previous Positions

Vienna University of Technology

Project Assistant, Institute of Information Systems *Oct. 2015 – Aug. 2016*
Member of the research group on Databases and Artificial Intelligence (DBAI).
Part of project Fragment-Driven Belief Change funded by the Austrian Science Fund (FWF) under grant P25521.

University of Artois

Ph.D. Student, CRIL (Centre de Recherche en Informatique de Lens) *Oct. 2012 – Sept. 2015*
Member of the research group on Knowledge Representation and Reasoning.

Education

Université d'Artois

Ph.D. in Computer Science **Lens**
2012–2015
Research topics: knowledge representation and reasoning, abstract argumentation, belief revision

Université d'Artois

Master Degree, with honours **Lens**
2010–2012
Master in Computer Science: Intelligent Systems and Applications

Université d'Artois

Licence Degree, with distinction **Lens**
2007–2010
Licence in Mathematics and Computer Science, Special topic: Computer Science

High School Anatole France

Baccalaureate, with first class honours **Lillers**
2007
Baccalaureate in Science, Special topic: Mathematics

Ph.D. Thesis

Title: *Dynamics of Argumentation Frameworks*

Supervisors: Sylvie Coste-Marquis, Sébastien Konieczny, Pierre Marquis – Centre de Recherche en Informatique de Lens (CRIL)

Defense Committee:

Président :

- Salem Benferhat

Rapporteurs :

- Gerhard Brewka
- Stefan Woltran

Examineurs :

- Andreas Herzig
- Anthony Hunter

Master Thesis

Title: *Révision de systèmes d'argumentation*

Supervisors: Sylvie Coste-Marquis, Sébastien Konieczny, Pierre Marquis – Centre de Recherche en Informatique de Lens (CRIL)

Research Internship Thesis

Title: *Développement de nouvelles consistances*, Master 1 Research Internship

Supervisors: Stéphane Cardon, Jean-Marie Lagniez – Centre de Recherche en Informatique de Lens (CRIL)

Scientific Activities

Projects.....

- Member of the project *Fragment-Driven Belief Change* funded by the FWF (Austrian Science Fund) (2015-2016)
- Member of the project *AMANDE: Advanced Multilateral Argumentation for DELiberation* funded by the ANR (French National Research Agency) (since 2013)

Program Committee Member.....

- 32nd AAAI Conference on Artificial Intelligence (AAAI 2018)
- 33rd ACM/SIGAPP Symposium On Applied Computing (SAC 2018) - Track on Knowledge Representation and Reasoning
- 15èmes Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA 2017)
- 26th International Joint Conference on Artificial Intelligence (IJCAI 2017)
- 30th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2017) - Special Track on Applications of Argumentation
- 1st International Workshop on Systems and Algorithms for Formal Argumentation (SAFA 2016)
- 6th International Conference on Computational Models of Argument (COMMA 2016)

Reviewer for Journal Papers.....

- Journal of Artificial Intelligence Research
- Artificial Intelligence
- Argument and Computation
- International Journal of Approximate Reasoning

Reviewer for Conference and Workshop Papers.....

- 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2017)
- 31st AAAI Conference on Artificial Intelligence (AAAI 2017)

- 22nd European Conference on Artificial Intelligence (ECAI 2016)
- 6th International Workshop on Computational Social Choice (COMSOC 2016)
- 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)
- 15th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016)
- 9th International Symposium on Foundations of Information and Knowledge Systems (FolKS 2016)
- 30th AAAI Conference on Artificial Intelligence (AAAI 2016)
- 8th International Conference on Knowledge Science, Engineering and Management (KSEM 2015)
- 21st European Conference on Artificial Intelligence (ECAI 2014)
- 14th European Conference on Logics in Artificial Intelligence (JELIA 2014)

Organization of Events.....

- Co-organizer of the Workshop on New Trends in Belief Change, TU Wien, May 2016
- Co-organizer of the Workshop on Change in Argumentation, Université d'Artois, September 2015

Student Supervision.....

- DUT Internship Supervisor, Etienne Lopvet, *Ajout de fonctionnalités au logiciel d'argumentation CoQuiAAS*
- Master 2 Research Intership Co-Spervisor, Salim Kecili, *Contraintes d'ensemble dans un débat argumenté* (2017)
- Master 1 Mentored Project Supervisor, Kalidou Ba and Appolinaire Dekli, *Outils pour le Raisonnement Non Monotone via la plateforme Tweety* (2017)
- Master 1 Research Internship Co-Supervisor, Aurélien Lucas, *Mesures d'incohérence à base d'argumentation* (2015)
- Master 1 Research Internship Co-Supervisor, Oumaima Mehaibia, *Implémentation d'opérateurs de révision via SAT* (2014)

Administration

Elective Functions.....

- Member of the *Conseil Scientifique Local* (local scientific concil) of the Faculty of Mathematics and Computer Science, Université Paris Descartes (since 2017)

Software Development

DynArgs

Dynamics of Argumentation Software

My thesis work has lead to the implementation of some pieces of software. In particular, I implemented the Extension Enforcement Software used for the experiments in [7].

CoQuiAAS

Argumentation Solver

Joint work with Jean-Marie Lagniez and Emmanuel Lonca. CoQuiAAS has won the First International Competition on Computational Models of Argumentation (ICCMA'15).

Solver description: [12]. Full paper: [6].

Teaching Experience

Paris Descartes University

Assistant Professor

Paris

2016 – ...

Faculty of Mathematics and Computer Science.

Teachings for third year of Bachelor in Computer Science and first year of Master in Computer Science:

- Advanced Object Oriented Programming
- Non-Monotonic Reasoning
- Algorithmic Complexity

Université d'Artois

Instructorship in the higher education

Teachings in the institute of technology of Lens.

Some teachings in first and second year of the DUT (Diplôme Universitaire de Technologie) on Computer Science and the DUT on Multimedia and Internet Technologies:

- Object Oriented Programming
- Algorithmic
- Documents Conception
- Web Programming
- Android
- Databases

Lens

2012-2015

Languages

French: Perfectly fluent

Native language

English: Professional competence

Computer skills

Programming languages: Python, C, C++, Java, shell... **Operating Systems:** Windows (XP → 8), GNU/Linux, Mac OS X

Web Programming: HTML/CSS, PHP

Miscellaneous: Latex

References

Thesis supervisors

- Sylvie Coste-Marquis (coste@cril.fr)
- Sébastien Konieczny (konieczny@cril.fr)
- Pierre Marquis (marquis@cril.fr)

References

- Leila Amgoud (amgoud@irit.fr)
- Pavlos Moraitis (pavlos@mi.parisdescartes.fr)
- Nicolas Maudet (nicolas.maudet@lip6.fr)

Publications

International Conferences.....

[1] Sylvie Doutre and Jean-Guy Mailly. Semantic change and extension enforcement in abstract argumentation. In *11th International Conference on Scalable Uncertainty Management (SUM 2017)*, 2017.

[2] Sylvie Doutre and Jean-Guy Mailly. Quantifying the difference between argumentation semantics. In *6th International Conference on Computational Models of Argument (COMMA 2016)*, pages 255–262, 2016.

[3] Gerhard Brewka, Jean-Guy Mailly, and Stefan Woltran. Translation-based revision and merging for minimal horn reasoning. In *22nd European Conference on Artificial Intelligence (ECAI 2016)*, pages 734–742, 2016.

[4] Adrian Haret, Jean-Guy Mailly, and Stefan Woltran. Distributing knowledge into simple bases. In *25th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, pages 1109–1115, 2016.

[5] Jérôme Delobelle, Adrian Haret, Sébastien Konieczny, Jean-Guy Mailly, Julien Rossit, and Stefan

Woltran. Merging of abstract argumentation frameworks. In *15th International Conference on Principles of Knowledge Representation and Reasoning (KR 2016)*, pages 33–42, 2016.

[6] Jean-Marie Lagniez, Emmanuel Lonca, and Jean-Guy Mailly. CoQuiAAS: A constraint-based quick abstract argumentation solver. In *Twenty-seventh IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2015)*, pages 928–935, 2015.

[7] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. Extension enforcement in abstract argumentation as an optimization problem. In *24th International Joint Conference on Artificial Intelligence (IJCAI 2015)*, pages 2876–2882, 2015.

[8] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. A translation-based approach for revision of argumentation frameworks. In *14th European Conference on Logics in Artificial Intelligence (JELIA 2014)*, pages 77–85, 2014.

[9] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. On the revision of argumentation systems: Minimal change of arguments statuses. In *14th International Conference on Principles of Knowledge Representation and Reasoning (KR 2014)*, pages 52–61, 2014.

International Workshops and Extended Abstracts.....

[10] Adrian Haret, Jean-Guy Mailly, and Stefan Woltran. Distributing knowledge into simple bases. In *16th International Workshop on Non-Monotonic Reasoning (NMR'16)*, 2016.

[11] Jean-Guy Mailly. Using enthymemes to fill the gap between logical argumentation and revision of abstract argumentation frameworks. In *16th International Workshop on Non-Monotonic Reasoning (NMR'16)*, 2016.

[12] Jean-Guy Mailly Jean-Marie Lagniez, Emmanuel Lonca. CoQuiAAS: Application of constraint programming for abstract argumentation. First International Competition on Computational Models of Argumentation (ICCMA 2015), 2015.

[13] Jean-Guy Mailly. Dynamic of argumentation frameworks. In *Doctoral Consortium of the 23rd International Joint Conference on Artificial Intelligence (IJCAI DC 2013)*. AAAI Press / International Joint Conferences on Artificial Intelligence, 2013.

[14] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. On the revision of argumentation systems: Minimal change of arguments status. In *2nd International Workshop on Theory and Applications of Formal Argumentation (TAFAs 2013)*, 2013. workshop at IJCAI'13.

[15] Jean-Guy Mailly. Revising argumentation systems: Argument status versus graph minimization. ACAI Summer School 2013, Student Session (ACAI 2013), 2013.

National Conferences.....

[16] Sylvie Doutre and Jean-Guy Mailly. Dynamique des systèmes d'argumentation : changement de sémantique et forçage d'extension. In *11èmes Journées d'Intelligence Artificielle Fondamentale (IAF 2017)*, 2017.

[17] Sylvie Doutre and Jean-Guy Mailly. How different are two argumentation semantics? In *10èmes Journées d'Intelligence Artificielle Fondamentale (IAF 2016)*, 2016.

[18] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. Forçage d'extension en argumentation abstraite par optimisation booléenne. In *9èmes Journées d'Intelligence Artificielle Fondamentale (IAF 2015)*, 2015.

[19] Jean-Marie Lagniez, Emmanuel Lonca, and Jean-Guy Mailly. CoQuiAAS : Applications de la programmation par contraintes à l'argumentation abstraite. In *11èmes Journées Francophones de la Programmation par Contraintes (JFPC 2015)*, pages 77–85, 2015.

[20] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. Approche par traduction pour la révision de systèmes d'argumentation. In *8èmes Journées d'Intelligence Artificielle Fondamentale (IAF 2014)*, pages 77–85, 2014.

[21] Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, and Pierre Marquis. Révision de systèmes d'argumentation : changement minimal du statut des arguments. In *7èmes Journées d'Intelligence Artificielle Fondamentale (IAF 2013)*, pages 107–116, 2013.

Thesis.....

[22] Jean-Guy Mailly. *Dynamics of Argumentation Frameworks*. PhD thesis, Université d'Artois, 2015.

[23] Jean-Guy Mailly. Révision de systèmes d'argumentation, 2012. Master thesis, in french. English title: *Revision of Argumentation Frameworks*.