



CV of Sophie Pinchinat

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- Full Professor at University of Rennes 1
- Head of LOGICA team, Department Language and Software Engineering (D4) of IRISA lab
- Main research interests Formal methods, artificial intelligence, multi-agent systems, security (foundations of attack defense trees and attack existence problems in dynamic attack graphs), planning, mathematical logic, automata, dynamic epistemic reasoning, multi-player games.

Publications (2019-2021)

Books

- [BPS22] Pierre Le Barbenchon, Sophie Pinchinat, and François Schwarzentruber, eds. *Logique : fondements et applications - Cours et exercices corrigés*. 288 pages. To appear January 5, 2022. Collection Sciences sup, Dunod, 2022.
- [GPS21] Johann Gamper, Sophie Pinchinat, and Guido Sciavicco. “Special Issue - Selected Papers from the 26th International Symposium on Temporal Representation and Reasoning”. In: *Inf. Comput.* 280 (2021), p. 104635. DOI: 10.1016/j.ic.2020.104635. URL: <https://doi.org/10.1016/j.ic.2020.104635>.
- [GPS19] Johann Gamper, Sophie Pinchinat, and Guido Sciavicco, eds. *Proceedings of the 26th International Symposium on Temporal Representation and Reasoning Málaga, 16-19 October 2019*. Vol. 147. LIPIcs–Leibniz International Proceedings in Informatics, 2019.

Journals

- [Ber+21] Raphaël Berthon et al. “Alternating Tree Automata with Qualitative Semantics”. In: *ACM Transactions on Computational Logic* 22(1) (2021), 7:1–7:24.
- [Bol+20] Thomas Bolander et al. “A roadmap of decidability and complexity results for DEL-based epistemic planning”. In: *Artificial Intelligence* (2020).
- [Wid+19] Wojciech Wideł et al. “Beyond 2014: Formal methods for attack tree-based security modeling”. In: *ACM Computing Surveys* 52.4 (2019).
- [CPS19] Tristan Charrier, Sophie Pinchinat, and François Schwarzentruber. “Symbolic model checking of public announcement protocols”. In: *Journal of logic and Computation* 29.8 (2019), pp. 1211–1249.
- [Pin19] Sophie Pinchinat. “S. Demri, V. Goranko, M. Lange, Temporal Logics in Computer Science — Finite-State Systems”. In: *Studia Logica* (2019).

Conferences (A* only)

- [Mau+20] Bastien Maubert et al. “Concurrent Games in Dynamic Epistemic Logic”. In: *29th International Joint Conference on Artificial Intelligence, July 11-17, 2020, Yokohama, Japan*. 2020.
- [MPS19] Bastien Maubert, Sophie Pinchinat, and François Schwarzentruber. “Reachability Games in Dynamic Epistemic Logic”. In: *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence, IJCAI 2019, Macao, China, August 10-16, 2019*. 2019, pp. 499–505. DOI: 10.24963/ijcai.2019/71. URL: <https://doi.org/10.24963/ijcai.2019/71>.

Editorial Board and recent program committees

- Appointed to the “Algorithm and Complexity” thema of Encyclopedia SCIENCES, ISTE GROUP (<https://www.istegroup.com/en/sciences/>).
- Editorial board of Discrete Event Dynamic Systems (2010-2020).
- PC member of (only A*/A conferences) AiML 2022, AAI 2022, IJCAI-Board 2022, IJCAI 2021 (Senior PC), ICALP 2021, AAMAS 2021, CSL 2021, AAI 2020, AAMAS 2020, IJCAI 2019, AiML 2020, AAMAS 2019, LICS 2019, AAMAS 2018, IJCAI 2018, CSL 2017.

Recent invitations

- “Synthesis in infinite structures” at Workshop on Automated Synthesis, 29-30 July 2021, on-line affiliated with ESSLLI 2021.
<https://webspaces.science.uu.nl/~alech001/was-esslli2021/>
- “Structures automatiques et logique du premier ordre” at MathPark Seminar, Institute Henri Poincaré, Paris, February 29, 2020.
<http://www.ihp.fr/fr/seminaire/mathematic-park>
- “Model checking over infinite structures: Automatic Structures and Regular Automatic Trees” at “séminaire du Centre Fédéré en Vérification”, Friday, 31 May, 2019, Université Libre de Bruxelles, Belgique.
<http://cfv.ulb.ac.be/?q=node/871>
- “Dynamics of knowledge” at Dynamics of MultiAgent Systems, 17-21 Dec, 2018, Lorentz Center, Leiden, NL.
<https://www.lorentzcenter.nl/dynamics-of-multiagent-systems.html>
- Lecture on Logic at The Logic, Uncertainty and Games School, Lake Como School of Advanced Studies - July 9-13, 2018.
- Lecture on “Dynamic epistemic logic and its applications to plan/protocol synthesis”, 19th European Agent Systems Summer School, 7-11 August, 2017, University of Gdansk, Gdansk, Poland.
- Dagstuhl Seminar 17231, on Epistemic Planning. June 5-9, 2017.
- Dagstuhl Seminar 17111, on Game Theory in AI, Logic, and Algorithms. March 12-17, 2017.

Experience in scientific event organisation

- AiML 2022, Advances in Modal Logic, 22-25 August, 2022, Rennes, France <https://aiml2022.irisa.fr/>,
- LAMAS&SR 2022, International Workshop on Logical Aspects in Multi-Agent Systems and Strategic Reasoning, 25-26 August, 2022, Rennes, France (tba),
- FMAI 2019, 2nd Workshop on Formal Methods and AI <https://project.inria.fr/fmai2019/organisation/>, 2-3 of May 2019, Rennes.
- SR 2019, 7th International Workshop on Strategic Reasoning <http://sr2019.irisa.fr/>, 10 August 2019 Macao, Satellite Workshop of IJCAI 2019.
- Robolog 2017 <http://people.irisa.fr/Francois.Schwarzentruber/robolog2017/>, June 28-30, 2017, IRISA, Rennes, France.
- the French-American Doctoral Exchange Seminar (FADEX) 2017: Cybersecurity <https://project.inria.fr/siliconvalley/2017/02/07/fadex-2017/>, 14-15 June 2017, Rennes, France.
- FMAI 2017, 1st Workshop on Formal Methods in AI <https://sites.google.com/site/fmai2017homepage/home>, 22 - 24 February 2017, University of Naples "Federico II", Naples, Italy <https://sites.google.com/site/fmai2017homepage/home>
- TTL2015, 4th International Conference on Tools for Teaching Logic <http://ttl2015.irisa.fr/>, June 9-12, 2015, Rennes, France.

Recent PhD supervisions

Student name	Year	Pourcentage	Grant
Maxime Audinot	2015-2018	100%	PEC
Tristan Charrier		100%	MESR
Sébastien Lê Cong	2017-2019	100%	MESR
Florence Wacheux	2018-2020	60%	PEC
Dylan Bellier	2020-2022	50%	CDSN
Pierre Le Scornet	2020-2022	100%	MESR
Alexandre Terefenko	2020-2022	50%	Bourse région/Bourse belge (co-tutelle)