

Periklis Mantenoglou

Curriculum Vitae

Education

- 2019 - 2024 | **PhD** in the Department of Informatics and Telecommunications of the National & Kapodistrian University of Athens, Greece.
Thesis Title: “Reasoning over Complex Temporal Specifications and Noisy Data Streams”.
- 2014 - 2019 | **Integrated Master’s Degree** in Electrical & Computer Engineering at the National Technical University Of Athens, Greece.
GPA: 9,04/10.
Thesis Title: “Online Probabilistic Interval-based Event Calculus”.

Experience

- 2025 - now | **Postdoctoral researcher** at MPI lab, Örebro University, Sweden.
- 2024 | **Postdoctoral researcher** at CER group, NCSR “Demokritos”, Greece.
- 2019 - 2024 | **Research associate** at CER group, NCSR “Demokritos”, Greece.
- 2018 | **Internship:** Development of a Chess Strategy Recognition System at CER group, NCSR “Demokritos”, Greece.

Publications

- 2026 | Mantenoglou P., Bonassi L., Scala E. and Zuidberg Dos Martires P., Two Constraint Compilation Methods for Lifted Planning. In 40th AAAI Conference on Artificial Intelligence (AAAI).
- 2025 | Mantenoglou P. and Artikis A., Composite Event Recognition with Arbitrary Specifications. In Information and Computation Journal.
Mantenoglou P., Pitsikalis M. and Artikis A., Reasoning over Streams of Events with Delayed Effects. In Journal of Artificial Intelligence Research (JAIR).
- 2025 | Mantenoglou P., Hazra R., Zuidberg Dos Martires P. and De Raedt L., LexiCon: a Benchmark for Planning under Temporal Constraints in Natural Language. In 39th Annual Conference on Neural Information Processing Systems (NeurIPS).

- Mantenoglou P. and Artikis A., Sequencing in the Run-Time Event Calculus.* In 28th European Conference on Artificial Intelligence (ECAI).
- Mantenoglou P. and Artikis A., Temporal Specification Optimisation for the Event Calculus.* In 39th AAAI Conference on Artificial Intelligence (AAAI).
- Kouvaras A., Mantenoglou P. and Artikis A., Generating Activity Definitions with Large Language Models.* In 28th International Conference on Extending Database Technology (EDBT).
- 2024 *Andrienko N., Andrienko G., Artikis A., Mantenoglou P. and Rinzivillo S., Human-in-the-Loop: Visual Analytics for Building Models Recognising Behavioural Patterns in Time Series.* In IEEE Computer Graphics and Applications (CG&A).
- Mantenoglou P., Extending the Range of Temporal Specifications of the Run-Time Event Calculus.* In 31st International Symposium on Temporal Representation and Reasoning (TIME).
- 2023 *Mantenoglou P., Artikis A. and Paliouras G., Online Event Recognition over Noisy Data Streams.* In International Journal of Approximate Reasoning (IJAR).
- Mantenoglou P., Pitsikalis M. and Artikis A., Complex Event Recognition with Allen relations.* In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR).
- Andrienko N., Andrienko G., Artikis A., Mantenoglou P. and Rinzivillo S., Towards a Hybrid Human-Machine Discovery of Complex Movement Patterns.* In PKDD/ECML Workshops.
- 2022 *Mantenoglou P., Pitsikalis M. and Artikis A., Stream Reasoning with Cycles.* In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR).
- Mantenoglou P., Pitsikalis M. and Artikis A., Towards Stream Reasoning with Deadlines.* In 38th International Conference on Logic Programming (ICLP), Technical Communications.
- 2021 *Mantenoglou P., Pitsikalis M. and Artikis A., Towards Streams of Events with Temporally-Constrained Effects.* In 37th International Conference on Logic Programming (ICLP), Technical Communications.
- 2020 *Mantenoglou P., Artikis A. and Paliouras G., Online Probabilistic Interval-based Event Calculus.* In 24th European Conference on Artificial Intelligence (ECAI).

Teaching

- 2025 | **Programming Fundamentals.** Örebro University.

Teaching Assistant

- 2023 **Logic Programming.** National & Kapodistrian University of Athens.
- 2022 **Logic Programming.** National & Kapodistrian University of Athens.
- Principles of Programming Languages.** National & Kapodistrian University of Athens.
- 2021 **Logic Programming.** National & Kapodistrian University of Athens.

	Object-Oriented Programming. National & Kapodistrian University of Athens.
2020	Data Structures. National & Kapodistrian University of Athens.

Dissemination Activities

2025	<p>Making Sense of Streaming Data. In 28th European Conference on Artificial Intelligence (ECAI). Tutorial by A. Artikis, P. Mantenoglou and M. Pitsikalis.</p> <p>Sequencing in the Run-Time Event Calculus. In 28th European Conference on Artificial Intelligence (ECAI). Paper Presentation.</p> <p>Temporal Specification Optimisation for the Event Calculus. In 39th Annual AAAI Conference on Artificial Intelligence (AAAI). Paper Presentation.</p>
2024	<p>Can computers understand what is happening? An introduction to complex event recognition. In 5th ACM Europe Summer School on Data Science. Course by A. Artikis & P. Mantenoglou.</p> <p>Extending the Range of Temporal Specifications of the Run-Time Event Calculus. In 31st International Symposium on Temporal Representation and Reasoning (TIME). Paper Presentation.</p>
2023	<p>Stream Reasoning with the Run-Time Event Calculus. In University of Oslo (UiO). Invited Talk.</p> <p>Probabilistic Interval-based Event Recognition. In Norwegian Computing Center (NR). Invited Talk.</p> <p>Complex Event Recognition with Allen Relations. In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR). Paper Presentation.</p>
2022	<p>Online Reasoning under Uncertainty with the Event Calculus. In 9th Workshop on Probabilistic Logic Programming (PLP). Invited Talk by A. Artikis & P. Mantenoglou.</p> <p>Stream Reasoning with Cycles. In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR). Paper Presentation.</p> <p>Towards Stream Reasoning with Deadlines. In 38th International Conference on Logic Programming (ICLP). Paper Abstract Presentation.</p> <p>Optimisation Methods for Complex Event Recognition. In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR). Doctoral Consortium.</p>
2021	<p>Stream Reasoning with the Run-Time Event Calculus. In Ludwig Maximilian University of Munich. Invited Talk by P. Mantenoglou & A. Artikis.</p> <p>Towards Streams of Events with Temporally-Constrained Effects. In 37th International Conference on Logic Programming (ICLP). Paper Abstract Presentation.</p>
2020	<p>Online Probabilistic Interval-based Event Calculus. In 24th European Conference on Artificial Intelligence (ECAI). Paper Presentation.</p> <p>Online Probabilistic Interval-based Event Calculus. In 17th International Conference on Principles of Knowledge Representation and Reasoning (KR). Doctoral Consortium.</p>

R&D Projects

2023 -	CREXDATA: Critical Action Planning over Extreme-Scale Data.
2024	
2023	ENEXA: Efficient Explainable Learning on Knowledge Graphs.
2019 - 2022	INFORE: Interactive Extreme-Scale Analytics and Forecasting.

PC Participation

2026	AAAI: AAAI Conference on Artificial Intelligence.
2025	ECAI: European Conference on Artificial Intelligence.
	KR: International Conference on Principles of Knowledge Representation and Reasoning.
	TIME: International Symposium on Temporal Representation and Reasoning.

Scholarships

2022 -	Hellenic Foundation for Research & Innovation: Scholarship for PhD Candidates.
2024	

Software

I am maintaining the following software:

- ▷ **oPIEC:** an open-source implementation of the Event Calculus for reasoning over noisy data streams [Q](#).
- ▷ **RTEC:** an open-source Event Calculus dialect optimised for data stream reasoning [Q](#).
- ▷ **SimLP:** a similarity metric for logic programs [Q](#).
- ▷ **LexiCon:** a benchmark for planning under temporal constraints in natural language [Q](#).
- ▷ **LiftedTCORE:** a lifted compiler for PDDL qualitative state constraints [Q](#).

Languages

- ▷ **Greek:** Native Language.
- ▷ **English:** C2, Certificate of Proficiency in English, University of Cambridge.
- ▷ **French:** B2, Certificat Pratique de Langue Française, Université Paris-Sorbonne.

Contact

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