

Periklis Mantenoglou

Postdoctoral Researcher

CURRICULUM VITAE

A version of the CV that contains links to my theses, published papers, presentation slides and systems' code is available [online](#).

ACADEMIC BACKGROUND

2019 - 2024	PhD in Artificial Intelligence at 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".

WORKING EXPERIENCE

2025 - now	Postdoctoral researcher at MPI lab, Örebro University, Sweden.
2024	Postdoctoral researcher at the Complex Event Recognition group of NCSR "Demokritos", Greece.
2019 - 2024	Research associate at the Complex Event Recognition group of NCSR "Demokritos", Greece.
2018	Internship: Development of a Chess Strategy Recognition System at the SKEL lab of NCSR "Demokritos", Greece.

PUBLICATIONS

2026	<i>Mantenoglou P.</i> , Efficient Temporal Datalog Materialisation for Composite Event Recognition . In International Conference on Principles of Knowledge Representation and Reasoning (KR). <i>Mantenoglou P., Bonassi L., Scala E. and Zuidberg Dos Martires P.</i> , Two Constraint Compilation Methods for Lifted Planning . In 40th AAAI Conference on Artificial Intelligence (AAAI).
2025	<i>Mantenoglou P. and Artikis A.</i> , Composite Event Recognition with Arbitrary Specifications . In Information and Computation Journal. <i>Mantenoglou P., Pitsikalis M. and Artikis A.</i> , Reasoning over Streams of Events with Delayed Effects . In Journal of Artificial Intelligence Research (JAIR). <i>Mantenoglou P., Hazra R., Zuidberg Dos Martires P. and De Raedt L.</i> , LexiCon: a Benchmark for Planning under Temporal Constraints in Natural Language . In 39th Annual Conference on Neural Information Processing Systems (NeurIPS). <i>Mantenoglou P. and Artikis A.</i> , Sequencing in the Run-Time Event Calculus . In 28th European Conference on Artificial Intelligence (ECAI). <i>Mantenoglou P. and Artikis A.</i> , Temporal Specification Optimisation for the Event Calculus . In 39th AAAI Conference on Artificial Intelligence (AAAI). <i>Kouvaras A., Mantenoglou P. and Artikis A.</i> , Generating Activity Definitions with Large Language Models . In 28th International Conference on Extending Database Technology (EDBT).
2024	<i>Andrienko N., Andrienko G., Artikis A., Mantenoglou P. and Rinzivillo S.</i> , Human-in-the-Loop: Visual Analytics for Building Models Recognising Behavioural Patterns in Time Series . In IEEE Computer Graphics and Applications (CG&A). <i>Mantenoglou P.</i> , Extending the Range of Temporal Specifications of the Run-Time Event Calculus . In 31st International Symposium on Temporal Representation and Reasoning (TIME).

2023	<p><i>Mantenoglou P., Artikis A. and Paliouras G., Online Event Recognition over Noisy Data Streams.</i> In International Journal of Approximate Reasoning (IJAR).</p> <p><i>Mantenoglou P., Pitsikalis M. and Artikis A., Complex Event Recognition with Allen relations.</i> In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR).</p> <p><i>Andrienko N., Andrienko G., Artikis A., Mantenoglou P. and Rinzivillo S., Towards a Hybrid Human-Machine Discovery of Complex Movement Patterns.</i> In PKDD/ECML Workshops.</p>
2022	<p><i>Mantenoglou P., Pitsikalis M. and Artikis A., Stream Reasoning with Cycles.</i> In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR).</p> <p><i>Mantenoglou P., Pitsikalis M. and Artikis A., Towards Stream Reasoning with Deadlines.</i> In 38th International Conference on Logic Programming (ICLP), Technical Communications.</p>
2021	<p><i>Mantenoglou P., Pitsikalis M. and Artikis A., Towards Streams of Events with Temporally-Constrained Effects.</i> In 37th International Conference on Logic Programming (ICLP), Technical Communications.</p>
2020	<p><i>Mantenoglou P., Artikis A. and Paliouras G., Online Probabilistic Interval-based Event Calculus.</i> In 24th European Conference on Artificial Intelligence (ECAI).</p>

TEACHING

2025	Programming Fundamentals. Örebro University.
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TEACHING ASSISTANT

2023	Logic Programming. National & Kapodistrian University of Athens.
2022	<p>Logic Programming. National & Kapodistrian University of Athens.</p> <p>Principles of Programming Languages. National & Kapodistrian University of Athens.</p>
2021	<p>Logic Programming. National & Kapodistrian University of Athens.</p> <p>Object-Oriented Programming. National & Kapodistrian University of Athens.</p>
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 - 2024	CREXDATA: Critical Action Planning over Extreme-Scale Data.
2023	ENEXA: Efficient Explainable Learning on Knowledge Graphs.
2019 - 2022	INFORE: Interactive Extreme-Scale Analytics and Forecasting.

PC PARTICIPATION

2026	<p>AAAI: AAAI Conference on Artificial Intelligence.</p> <p>NeurIPS: Annual Conference on Neural Information Processing Systems.</p> <p>KR: International Conference on Principles of Knowledge Representation and Reasoning.</p> <p>TIME: International Symposium on Temporal Representation and Reasoning.</p> <p>ISWC: International Semantic Web Conference.</p>
2025	<p>ECAI: European Conference on Artificial Intelligence.</p> <p>KR: International Conference on Principles of Knowledge Representation and Reasoning.</p> <p>TIME: International Symposium on Temporal Representation and Reasoning.</p>





SCHOLARSHIPS/AWARDS

2026	Hellenic Artificial Intelligence Society: Best PhD Thesis Award (Runner-up).
2022 - 2024	Hellenic Foundation for Research & Innovation: Scholarship for PhD Candidates.

SOFTWARE

I am maintaining the following software:



- ▷ **oPIEC:** an open-source implementation of the Event Calculus for reasoning over noisy data streams 

- ▷ **RTEC**: an open-source Event Calculus dialect optimised for data stream reasoning .
- ▷ **SimLP**: a similarity metric for logic programs .
- ▷ **LexiCon**: a benchmark for planning under temporal constraints in natural language .
- ▷ **LiftedTCORE**: a lifted compiler for PDDL qualitative state constraints .

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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