

# Periklis Mantenoglou

## Curriculum Vitae

### Academic Background

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

### Working Experience

2019 - now	<b>Research associate</b> at SKEL, IIT, NCSR “Demokritos”.
2018	<b>Internship:</b> Development of a Chess Strategy Recognition System at SKEL, IIT, NCSR “Demokritos”.

### Publications

2024	<i>Andrienko N., Andrienko G., Artikis A., Mantenoglou P. and Rinzivillo S.,</i> <b>Human-in-the-Loop: Visual Analytics for Building Models Recognising Behavioural Patterns in Time Series.</b> In IEEE Computer Graphics and Applications (CG&A). <i>Mantenoglou P.,</i> <b>Extending the Range of Temporal Specifications of the Run-Time Event Calculus.</b> In 31st International Symposium on Temporal Representation and Reasoning (TIME).
2023	<i>Mantenoglou P., Artikis A. and Paliouras G.,</i> <b>Online Event Recognition over Noisy Data Streams.</b> In International Journal of Approximate Reasoning (IJAR). <i>Mantenoglou P., Pitsikalis M. and Artikis A.,</i> <b>Complex Event Recognition with Allen relations.</b> In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR). <i>Mantenoglou P.,</i> <b>An Event Calculus for Run-Time Reasoning (Extended Abstract).</b> In 30th International Symposium on Temporal Representation and Reasoning (TIME).

- 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).

## Talks

- 2024 **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.
- 2023 **Stream Reasoning with the Run-Time Event Calculus.** In University of Oslo (UiO). Invited Talk.
- Probabilistic Interval-based Event Recognition.** In Norwegian Computing Center (NR). Invited Talk.
- Complex Event Recognition with Allen Relations.** In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR). Paper Presentation.
- 2022 **Online Reasoning under Uncertainty with the Event Calculus.** In 9th Workshop on Probabilistic Logic Programming (PLP). Invited Talk by A. Artikis & P. Mantenoglou.
- Stream Reasoning with Cycles.** In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR). Paper Presentation.
- Towards Stream Reasoning with Deadlines.** In 38th International Conference on Logic Programming (ICLP). Paper Abstract Presentation.
- Optimisation Methods for Complex Event Recognition.** In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR). Doctoral Consortium.
- 2021 **Stream Reasoning with the Run-Time Event Calculus.** In Ludwig Maximilian University of Munich. Invited Talk by P. Mantenoglou & A. Artikis.
- Towards Streams of Events with Temporally-Constrained Effects.** In 37th International Conference on Logic Programming (ICLP). Paper Abstract Presentation.
- 2020 **Online Probabilistic Interval-based Event Calculus.** In 24th European Conference on Artificial Intelligence (ECAI). Paper Presentation.
- Online Probabilistic Interval-based Event Calculus.** In 17th International Conference on Principles of Knowledge Representation and Reasoning (KR). Doctoral Consortium.

## R&D Projects

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

## Teaching Assistant

2023	Undergraduate Course on <b>Logic Programming</b> .
2022	Undergraduate Course on <b>Logic Programming</b> . Undergraduate Course on <b>Principles of Programming Languages</b> .
2021	Undergraduate Course on <b>Logic Programming</b> . Undergraduate Course on <b>Object-Oriented Programming</b> .
2020	Undergraduate Course on <b>Data Structures</b> .

## Courses & Seminars I Attended

2024	<b>ESSAI &amp; ACAI:</b> 2nd European Summer School on AI & 21st Advanced Course on AI.
2021	<b>Prometheus:</b> An Innovative Tech Transfer Program in Greece.

## Scholarships

2022 - 2024	<b>Hellenic Foundation for Research &amp; Innovation:</b> Scholarship for PhD Candidates.
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## 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 [🔗](#).

## 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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