

Emmanouil Sylligardos

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EDUCATION

February 2024 - Present: **PhD Candidate**

Department: Département Informatique, École Normale Supérieure, Paris, France.

Supervisors: Prof. Paul Boniol, Prof. Pierre Senellart

Thesis: *Accuracy and Execution Time Trade-off in Ensembling and Model Selection for Time Series Analytics* (defense expected May 2027)

2021 - 2023: **M.Sc. in Computer Science and Engineering**

GPA: 9.29/10. Department: Computer Science, University of Crete, Greece.

Supervisor: Prof. Panos Trahanias

Thesis: *Choose Wisely: An Extensive Evaluation of Model Selection...* (see publication)

2016 - 2021: **B.Sc. in Computer Science**

GPA: 8.64/10. Department: Computer Science, University of Crete, Greece.

Supervisor: Prof. Panos Trahanias

Thesis: *A Deep Learning Approach to Detect Ventilatory Over-Assistance*

2019 - 2020: **Erasmus+ M.Sc. in Computer Science and Engineering**

GPA: 7.5/10. Department: Electrical Engineering and Computer Science, TU Berlin, Germany.

Supervisor: Prof. Georgios Smaragdakis

RESEARCH EXPERIENCE

April 2026 - July 2026: **Research Intern**,

Aristotle University of Thessaloniki, Greece.

Host supervisor: Prof. John Paparrizos

September 2022 - February 2023: **Associate Researcher**,

Data Intensive and Knowledge Oriented Systems (diNo) group, Université Paris Cité.

Supervisors: Prof. Themis Palpanas, Prof. Paul Boniol

September 2021 - September 2023: **Postgraduate Research Engineer**,

Computational Vision and Robotics Laboratory (CVRL), ICS, FORTH.

Supervisor: Prof. Panos Trahanias

February 2020 - June 2021: **Undergraduate Research Fellow**,

Computational Vision and Robotics Laboratory (CVRL), ICS, FORTH.

Supervisors: Prof. Panos Trahanias, Dr. Markos Sigalas

June 2019 - June 2020: **Undergraduate Research Student**,

Laboratory of Energy and Photovoltaic Systems (LEPS), TEI of Crete.

Supervisors: Er. Pantelis Sylligardos, Prof. Fotis Mavromatakis

PUBLICATIONS

Doan, T. T. H., Sylligardos, E., et al. “**Accurate or Interpretable? Both! Joining Accuracy and Interpretability Evaluation Measures for Time Series Anomaly Detection**” *VLDB*, 2027, (under review).

Rozzio, A., Sylligardos, E., Boniol, P. “**Breaking the Model Selection Barrier? Three Learning Paradigms for Supervised Ensembling in Time Series Anomaly Detection**” *ICLR*, 2027, (under review).

Sylligardos, E., Huang, M., Paparrizos, J., Senellart, P., Boniol, P. “**Toward a Scal-**

able and Adaptive Evaluation Measure for Time Series Anomaly Detection” *ICDE*, 2027, (in preparation).

Sylligardos, E., Stanzione, R., Paparrizos, J., Senellart, P., Boniol, P. **“Pyxida: What Do Time Series Anomaly Detection Benchmarks Really Say?”** *ICDE Demo*, 2027, (in preparation).

Sylligardos, E., Huang, M., Paparrizos, J., Senellart, P., Boniol, P. **“AutoVUS”** *ICDE Demo*, 2027, (in preparation).

Sylligardos, E., Paparrizos, J., Palpanas, T., Senellart, P., Boniol, P. **“MSAD: A Deep Dive into Model Selection for Time series Anomaly Detection”** *The VLDB Journal*, 34, article 72, 2025, (link).

Nguyen, N.-T., Skålvik, A. M., **Sylligardos, E.**, et al. **“Interpretable Multivariate Anomaly Detector Selection for Automatic Marine Data Quality Control”** *IEEE Big Data*, 2025, (link).

Sylligardos, E. **“Fast or Accurate? Rethinking Time Series Anomaly Detection”** *VLDB and BDA PhD Workshops*, 2025, (link).

Boniol, P., **Sylligardos, E.**, et al. **“ADecimo: Model Selection for Time Series Anomaly Detection”** *ICDE*, 2024, (link).

Sylligardos, E., et al. **“Choose Wisely: An Extensive Evaluation of Model Selection for Anomaly Detection in Time Series”** *VLDB*, 2023, (link).

Soundoulounaki, S., **Sylligardos, E.**, et al. **“Neural Network-Enabled Identification of Weak Inspiratory Efforts during Pressure Support Ventilation Using Ventilator Waveforms”** *Journal of Personalized Medicine*, 2023, (link).

Sylligardos, E., et al. **“A Deep Learning Approach to Detect Ventilatory Over-Assistance”** *ICPRAI*, 2022, (link).

Baka, E., Mishra, N., **Sylligardos, E.**, et al. **“Social robots and Digital humans as Job Interviewers: A study of human reactions towards a more natural interaction”** *HCI International*, 2022, (link).

TEACHING EXPERIENCE

2026: Teaching Assistant, *The Art of Programming*, PSL University, France.

2025, 2026: Teaching Assistant, *Big Data and AI*, Prof. Vassilis Christophides, ENSEA - National School of Electronics and its Applications, France.

2024: Assistant, *Tutorial on Anomaly Detection for Time Series, 1st diiP Interdisciplinary Summer School on Data Science (dSDS)*, France.

2022, 2023: Teaching Assistant, *Pattern Recognition*, Prof. Panos Trahanias, University of Crete, Computer Science Department, Greece.

2022, 2023: Teaching Assistant, *Computer Networks*, Prof. Maria Papadopouli, University of Crete, Computer Science Department, Greece.

ACADEMIC SERVICE AND SUPERVISION

2026: Program Committee Member for *WSDM 2027*

2026: External Invited Reviewer for *KDD 2026, Pattern Recognition*

2025: External Invited Reviewer for *VLDB 2025, KAIS 2025, EDBT 2025, NeurIPS 2025* (workshop)

2024: External Invited Reviewer for *ICDE 2024, DSAA 2024*

2026: Co-supervisor (with Prof. Paul Boniol) of Thu T. H. Doan, PhD student, Gran

Sasso Science Institute (January - March)

2025: Co-supervisor (with Prof. Paul Boniol) of Adam Rozzio, M.Sc. intern, ENS Paris-Saclay (February - June)

**DISTINCTIONS
AND HONORS**

2025: Reproducibility badge for *MSAD: A Deep Dive into Model Selection for Time series Anomaly Detection*, VLDB Journal

2025: Invited participant at the *Meta Paris Open House Event*

2025: Participant, 1st TwinODIS Summer School “*Responsible Data & Decision Intelligence: AI and OR Societal Impact*”, FORTH, Crete, Greece

2024: Best Demonstration Runner-Up for *ADecimo: Model Selection for Time Series Anomaly Detection* at ICDE 2024

2022: Designed the ML pipeline for *Horizon Europe* funded project *PERCEIVE*

2021, 2023: Awarded a bachelor’s and a master’s degree with *Excellent Performance*

2019: Awarded student fellowship in *Computer Networks*, Prof. X. Dimitropoulos

2018: First place in the *CTF Student Competition*, Prof. E. Markatos

LANGUAGES

Greek (Native), **English** (Fluent), **French** (Advanced), **German** (Intermediate)