

# Curriculum vitae

## Elli Anastasiadi

Selma Lagerlöfs Vej 300, 9220 Aalborg

Assistant professor at the department of Computer Science,  
Aalborg University, Denmark

### PERSONAL DETAILS

✉ anastasiadi.elli0@gmail.com    🌐 10e42.github.io    📄 Google Scholar    📞 +45-42257702  
h-index: 4    🏷️ DBLP    🆔 ORCID

### ACADEMIC POSITIONS

<b>Aalborg University (Ongoing)</b> <i>Assistant professor, DEIS group</i>	<b>Aalborg, Denmark</b> 1/10/2024 - Today
<b>Uppsala University</b> <i>Postdoc position with the algorithmic program verification group.</i>	<b>Uppsala, Sweden</b> 24/10/2022 - 3/10/2024
<b>Reykjavik University</b> <i>PhD, ICE-TCS, Supervisors: Luca Aceto, Anna Ingólfssdóttir</i> Thesis title: "Syntactic approaches to negative results in process algebras and modal logics".	<b>Reykjavik, Iceland</b> 22/2/2019 - 10/10/2022
<b>NTUA &amp; NKUA</b> <i>Masters program "Algorithms, Logic and Mathematics" GPA: 9.0/10.0 .</i> Specializations: Logic in computer science.	<b>Athens, Greece</b> Sept 2018 - Feb 2019
<b>National Technical University of Athens (NTUA)</b> <i>5-year diploma (MSc) in Applied Mathematics GPA: 7.9/10.0 .</i> Specializations: Applied statistics, Mathematics of Computer Science. Thesis title: "Parameterized complexity and model checking on bounded families of graphs" (grade: 10/10).	<b>Athens, Greece</b> Sept 2013 - Sep 2018

### PUBLICATIONS

#### JOURNAL PUBLICATIONS

- Foundations of Runtime Monitoring through the Lens of Concurrency Theory. March 2026. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, Duncan Paul Attard, Léo Exibard, Adrian Francalanza, Daniele Gorla, Anna Ingólfssdóttir, Karoliina Lehtinen, and Jana Wagemaker.  
In **BEATCS 2026: The Concurrency Column**
- Centralized vs Decentralized Monitors for Hyperproperties. Oct 2025. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, Adrian Francalanza, Daniele Gorla, and Jana Wagemaker.  
In **ACM Transactions in Computational Logic**.
- Complexity results for modal logic with recursion via translations and tableaux. Aug 2024. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, Adrian Francalanza, and Anna Ingólfssdóttir.  
In: **Logical Methods in Computer Science**
- Non-Negative Decomposition of Multivariate Information: from Minimum to Blackwell Specific Information. May 2024. [DOI][PDF]  
With Tobias Mages, and Christian Rohner.  
In: **Entropy**
- Axiomatizing recursion-free, regular monitors. June 2022. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, and Anna Ingólfssdóttir.  
In: **Journal of Logical and Algebraic Methods in Programming**.
- On the axiomatisability of priority III: Priority strikes again. October 2020. [DOI] [PDF]  
With Luca Aceto, Valentina Castiglioni, Anna Ingólfssdóttir, and Bas Luttik, Mathias Ruggaard Pedersen  
In: **Theoretical Computer Science**.

## CONFERENCE PUBLICATIONS.....

- Verification of the Release-Acquire Semantics. Nov 2025. [DOI] [PDF]  
With Parosh Abdulla, Mohammed Faouzi Atig, and Samuel Grahm.  
In **ICTAC 2025**
- Centralized vs Decentralized Monitors for Hyperproperties. Sep 2024. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, Adrian Francalanza, Daniele Gorla, and Jana Wagemaker.  
In **CONCUR 2024**.
- On probabilistic Monitorability. December 2022. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, Adrian Francalanza, Anna Ingólfssdóttir, Karoliina Lehtinen, and Mathias Ruggaard Pedersen.  
In **Principles of Systems Design - Special Issue for Tom Henzinger's 60th Birthday. 2022**
- Complexity through Translations for Modal Logic with Recursion. September 2022. [DOI],[PDF]  
With Luca Aceto, Antonis Achilleos, Adrian Francalanza, and Anna Ingólfssdóttir.  
In: **GandALF 2022: Games, Automata, Logics, and Formal Verification**.
- Non-Finite Axiomatisability Results via Reductions: CSP Parallel Composition and CCS Restriction. September 2022. [DOI]  
With Luca Aceto, Valentina Castiglioni, and Anna Ingólfssdóttir.  
In: **Lecture Notes in Computer Science - Special Issue for Frits Vaandrager's 60th Birthday. 2022**
- Monitoring hyperproperties with circuits. Short paper. June 2022. [DOI] [PDF]  
With Luca Aceto, Antonis Achilleos, Adrian Francalanza.  
In: **FORTE 2022**.
- In search of lost time: Axiomatizing parallel composition in process algebras. July 2021. (Invited paper)  
[DOI] [PDF]  
With Luca Aceto, Valentina Castiglioni, Anna Ingólfssdóttir, and Bas Luttik:  
In: **Logic in Computer Science 2021**.
- On the Axiomatizability of Priority III: The Return of Sequential Composition. September 2019. [DOI],[PDF]  
With Luca Aceto, Valentina Castiglioni, Anna Ingólfssdóttir, and Mathias Ruggaard Pedersen:  
In: **ICTCS 2020**.

## MANUSCRIPTS.....

- Syntactic approaches to negative results in process algebras and modal logics. October 2022. [DOI], [PDF]  
PhD thesis.
- Parameterized complexity and model checking on bounded families of graphs. October 2018. [DOI],[PDF]  
Masters thesis.

## INFORMAL & WORKSHOP PUBLICATIONS.....

- PLS 2024 - On the expressiveness of hyperlogics. With Antonis Achilleos, R. Govind, and Jana Wagemaker.
- PLS 2024 - Satisfiability-checking of modal logic with recursion via translations and tableaux. With Luca Aceto, Antonis Achilleos, Adrian Francalanza, and Anna Ingólfssdóttir.
- NWPT 2023 - Infinite hard families of equations in process algebras. With Luca Aceto.
- RADICAL 2023 - Communicating Monitors for Hyper- $\mu$ HML. With Antonis Achilleos, Adrian Francalanza, and Jana Wagemaker.
- PLS 2022 - Epistemic logic for verifying runtime verification communication protocols. With Antonis Achilleos, Adrian Francalanza and Jasmine Xuereb.
- NWPT 2021 - Monitoring Hyperproperties with circuits. With Luca Aceto, Antonis Achilleos and Adrian Francalanza.
- NWPT 2019 - Axiomatizing equivalences over regular monitors. With Luca Aceto and Anna Ingólfssdóttir  
Online proceedings.
- PLS 2019 - An Axiomatization of Verdict Equivalence over (Closed) Regular Monitors. With Luca Aceto and Anna Ingólfssdóttir.

## AWARDS & GRANTS

---

- National Icelandic Research Fund: H.Lo - Hyperlogics: Expressiveness, Monitorability and Tools. Feb 2026-Feb 2029. Total amount: 23903950 ISK. Role: co-PI.
- Reykjavik University Research Fund for the project "REVoCoP: Runtime and Equational Verification of Concurrent Processes". Feb 2022. Total amount: 8000000 ISK. Role: main applicant.
- ACM-W, Women in Computing Scholarship Award 2019 - 1000 USD (towards attending ICALP/LICS).
- Hellenic Mathematical Society, 1st prize in Panhellenic Mathematical Competition Euclid 2009.

## RESEARCH ACTIVITIES

---

### MASTER STUDENT SUPERVISION.....

**Christina Spiliopoulou** **Expected graduation: June 2025**  
*Topic: the modal mu-calculus.*

**August Bredberg** **Spring 2023**  
*"Monitoring software usage and behaviour based on SAAS data: case Gemini Water portfolio".*

### REVIEWER DUTY.....

ICALP 2019, ICALP 2020, RV 2020, LFCS 2022, STACS 2022, SETTA 2022, STACS 2023, ESOP 2023, Studia Logica, CONCUR 2024, EXPRESS/SOS 2024, ICTAC 2024, CONCUR 2025, VMCAI 2025, LICS 2025, Petri Nets 2025, EXPRESS/SOS 2025, GandALF 2025, TACAS 2026, CSL 2026, LICS 2026

### COMMITTEES.....

**Panhellenic Logic Symposium 2026** **July 2026**  
*Athens, Greece*

Scientific & Program committee

**EXPRESS/SOS 2025** **Sep 2025**

*Aarhus, Denmark*

Program committee

**GandALF 2025** **Sep 2025**

*Valletta, Malta*

Program committee

**LMW@LICS** **June 2025**

*Singapore*

Organizing committee

**EXPRESS/SOS 2024** **Sep 2024**

*Calgary, Canada*

Program committee

**Panhellenic Logic Symposium** **July 2024**

*Thessaloniki, Greece*

Scientific & program committee

**LMW@CSL** **Feb 2024**

*Naples, Italy*

Organising committee

**Essays Dedicated to Frits W. Vaandrager on the Occasion of His 60th Birthday** **Sep 2022**

*Online*

Program committee

**Logic Colloquium 2022** **June 2022**

*Reykjavik, Iceland*

Local organiser

**The New York Colloquium on Algorithms and Complexity** **Dec 2021**

*New York, USA (online)*

Organising committee

**32nd Nordic Workshop on Programming Theory** **Nov 2021**

*Reykjavik, Iceland*

Local organiser

## MISC

---

**SIGLOG monthly newsletter**

Jan 2024 (Ongoing)

*Coordinator*

**PBL scheme mentor for CS at AAU**

since spring 2025

*Xinyu Ge, Giacomo Bais*

## TALKS

---

**SoftLab Annual Programming Languages Seminar**

29/12/2025

*Athens, Greece*

- Talk title: "Verification of the release-acquire semantics".

**Workshop in the honor of Anna Inglofsdottir**

14/11/2025

*Reykjavik, Iceland*

- Talk title: "Flipped classroom in theoretical computer science: A case study for equational logic"

**Trends in Concurrency Theory**

9/9/2024

*Calgary, Canada*

- Talk title: "Hyperproperties".

**Open Problems in Concurrency Theory**

27/06/2023

*Bertinoro, Italy*

- "Verification of weak memory models".

**Formal Methods seminar**

8/06/2023

*Marseille, France*

- "Verification of weak memory models".

**Formal Methods seminar**

23/06/2022

*Gothenburg, Sweden (online)*

- "Monitoring Hyperproperties with Circuits: Foundation and Extensions".

**Division of Computer Systems seminar**

1/6/2022

*Uppsala, Sweden (online)*

- "Monitoring hyperproperties with circuits".

**Henzinger group seminar**

10/5/2022

*Institute of science and technology, Austria (online)*

- "Monitoring hyperproperties with circuits".

**ALMA Masters program seminar**

June 2021

*Athens, Greece*

- "Natural Deduction: From classic to modal logic".

**CoReLab Seminar**

June 2020

*Athens, Greece*

- "The Uppaal model checker".

**Reykjavik University Computer Science Flash Talks**

Feb 2020

*Reykjavik, Iceland*

- "Using equational logic towards formal verification of concurrent systems".

**ICE-TCS Theory Day**

April 2019

*Reykjavik, Iceland*

- "Fine-grained complexity".

**ICE-TCS Seminar**

March 2019

*Reykjavik, Iceland*

- "Parameter trade-offs for the Model Checking Problem".

## TEACHING RECORD

---

**Aalborg University, DEIS group**

Oct 2024 - present

*Instructor*

*Aalborg, Denmark*

- Modeling and Verification: Spring semester 2026.
- Distributed Systems: Autumn semester 2025.
- Several PBL supervisions on bachelors student groups.

**Uppsala University, Division of Computer Systems**

**Oct 2022 - Oct 2024**

*Instructor*

*Uppsala, Sweden*

- Real Time Systems (lectures on Modeling and Verification of Timed Automata): Autumn 2022 & 2023
- Study group on Automata, Logics, and Infinite games: Autumn 2023

**Reykjavik University**

**March 2019 - Oct 2022**

*Department of Computer Science*

*Reykjavik, Iceland*

*Instructor:*

- Real-time Models (3-week course, T-219-REMO): Summer 2021.
- Modeling and Verification (T-707-MOVE): Spring 2021.
- Theory of Computation (T-519-STOR): Winter 2021.
- Logic in Computer Science (T-505-ROKF): Spring 2020.

*Teaching assistant:*

- Theory of Computation (T-519-STOR): Winter 2019 & 2020.
- Real Time Models (3-week course, T-219-REMO): Summer 2019 & 2022.
- Modeling and Verification (SC-T-707-MOVE): Spring 2019 & 2022.
- Logic in Computer Science (T-505-ROKF): Spring 2022.

**CoReLab NTUA**

**Sep 2018 - Feb 2019**

*Teaching assistant*

*Athens, Greece*

- Introduction to Computer Science: Dep. of Electrical Engineering.
- Discrete Mathematics I: Dep. of Electrical Engineering & Dep. of Applied Mathematics.
- Introduction to programming (C,C++): Dep. Of Electrical Engineering.

## OTHER WORK EXPERIENCE

---

**CoReLab NTUA**

**Athens, Greece**

*Teaching assistant/Lab member*

*Sep 2017 - Feb 2019*

- Hired for TA of several courses during undergrad studies.
- Co-organized and gave lectures for various elective courses.
- Participated in research activities: <https://arxiv.org/abs/1902.05529>.

**Megaventory Inc.**

**Athens, Greece**

*Software Engineer Intern*

*June 2018 - Aug 2018*

- Implemented interactive user guides.
- Designed an extension to the database for implementing Landed Cost calculations.
- Performed a risk analysis and a response analysis over user statistics.
- Created automatic gadget for testing compatibility of new features with restricted user app views.

**Public education sector**

**Athens, Greece**

*High School Student Tutor*

*Sep 2017 - June 2018*

- Provided tutorship for high school students in Mathematics, Statistics and Informatics.

## PERSONAL SKILLS

---

- Languages: **Greek** - Native, **English** - Proficient (long time user in professional and personal environments), **French** - Basic (basic education and occasional low-level use), **Danish** - A3 level, every day, non-academic use.
- Research Software: Uppaal, Minitab, R, Mathematica, Matlab
- Programming Languages & Skills: Python, C, C++, Java, HTML/CSS, Haskell, SQL, Fortran.
- Miscellaneous: Drivers license, leisure sailboat driving and management ability, percussion instrument proficiency, various music experience in other instruments and skills (guitar, piano, singing, marching band performance), sound technician experience.