






Curriculum vitae

Elli Anastasiadi

Lägerhyddsvägen 1, 752 37 Uppsala

Post-doc at the department of Information Technology,
Uppsala University, Sweden

PERSONAL DETAILS

✉ anastasiadi.elli0@gmail.com  10e42.github.io  Google Scholar  +354-774 7702
h-index: 3  DBLP  ORCID

RESEARCH & EDUCATION

Uppsala University (Ongoing) <i>Postdoc position with the algorithmic program verification group.</i>	Uppsala, Sweden 24/10/2022 - Today
Reykjavik University <i>PhD, ICE-TCS, Supervisors: Luca Aceto, Anna Ingólfssdóttir</i> Thesis title: "Syntactic approaches to negative results in process algebras and modal logics".	Reykjavik, Iceland 22/2/2019 - 10/10/2022
NTUA & NKUA <i>Masters program "Algorithms, Logic and Mathematics" GPA: 9.0/10.0 .</i> Specializations: Logic in computer science.	Athens, Greece Sept 2018 - Feb 2019
National Technical University of Athens (NTUA) <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).	Athens, Greece Sep 2013 - Sep 2018

PUBLICATIONS

JOURNAL PUBLICATIONS

- 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

- Centralized vs Decentralized Monitors for Hyperproperties. Sep 2024. [PDF]
With Luca Aceto, Antonis Achilleos, Adrian Francalanza, Daniele Gorla, and Jana Wagemaker.
In **CONCUR**.
- 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**.

- 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**.
- Monitoring hyperproperties with circuits. Short paper. June 2022. [DOI] [PDF]
With Luca Aceto, Antonis Achilleos, Adrian Francalanza.
In: **International Conference on Formal Techniques for Distributed Objects, Components, and Systems**.
- 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**.
- 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: **20th Italian Conference on Theoretical Computer Science**.

UNDER REVIEW

- Consistency Checking against the Release-Acquire Semantics [PDF]
With Parosh Abdulla and Samuel Grahn.

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- μ 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

- (Not funded with grade 84.40%) Marie-Curie European Postdoctoral Fellowship application for project "BeMo: Beyond Monitorability", to be hosted at Aix-Marseille Université. Role: main applicant.
- 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.....

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, CONCUR 2024, EXPRESS/SOS 2024, ICTAC 2024

COMMITTEES.....

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.....

Postdoc Representative

March 2024 (Ongoing)

Division of Computer Systems, Uppsala University

SIGLOG monthly newsletter

Jan 2024 (Ongoing)

Coordinator

IT-DoCS Seminars

Nov 2023 (Ongoing)

Organiser & Chair

Member of the new head of IT-DoCS committee

Apr 2023

Postdoc representative

TALKS.....

Trends in Concurrency Theory

9/9/2024

Calgary, Canada

○ Talk title: "Hyperproperties".

Nordic Workshop of Programming Theory

22/11/2023

Västerås, Sweden

○ Talk title: "Infinite hard families of equations in process algebras".

Athens Colloquium of Algorithms and Complexity

26/08/2023

Athens, Greece

○ "Data structures for the verification of weak memory models".

Open Problems in Concurrency Theory

27/06/2023

Bertinoro, Italy

○ “Verification of weak memory models”.	
Formal Methods seminar <i>Marseille, France</i>	8/06/2023
○ “Verification of weak memory models”.	
Formal Methods seminar <i>Gothenburg, Sweden (online)</i>	23/06/2022
○ “Monitoring Hyperproperties with Circuits: Foundation and Extensions”.	
Division of Computer Systems seminar <i>Uppsala, Sweden (online)</i>	1/6/2022
○ “Monitoring hyperproperties with circuits”.	
Henzinger group seminar <i>Institute of science and technology, Austria (online)</i>	10/5/2022
○ “Monitoring hyperproperties with circuits”.	
ALMA Masters program seminar <i>Athens, Greece</i>	June 2021
○ “Natural Deduction: From classic to modal logic”.	
CoReLab Seminar <i>Athens, Greece</i>	June 2020
○ “The Uppaal model checker”.	
Reykjavik University Computer Science Flash Talks <i>Reykjavik, Iceland</i>	Feb 2020
○ “Using equational logic towards formal verification of concurrent systems”.	
Nordic Workshop of Programming Theory <i>Tallinn, Estonia</i>	Nov 2019
○ Talk title: “Axiomatizing equivalences over regular monitors”.	
Panhellenic Logic Symposium <i>Anogeia, Greece</i>	June 2019
○ Talk title: “An Axiomatization of Verdict Equivalence over Regular Monitors”.	
ICE-TCS Theory Day <i>Reykjavik, Iceland</i>	April 2019
○ “Fine-grained complexity”.	
ICE-TCS Seminar <i>Reykjavik, Iceland</i>	March 2019
○ “Parameter trade-offs for the Model Checking Problem”.	

TEACHING RECORD

Uppsala University, Division of Computer Systems <i>Instructor</i>	Oct 2022 - present <i>Uppsala, Sweden</i>
○ 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 <i>Department of Computer Science</i> <i>Instructor:</i>	March 2019 - Oct 2022 <i>Reykjavik, Iceland</i>
○ 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.	
<i>Teaching assistant:</i>	
○ 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

Teaching assistant

Sep 2018 - Feb 2019

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

Teaching assistant/Lab member

Athens, Greece

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.

Software Engineer Intern

Athens, Greece

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

High School Student Tutor

Athens, Greece

Sep 2017 - June 2017

- 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).
- 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.

NAMES OF REFERENCES

- Luca Aceto, luca@ru.is
- Parosh Abdulla, parosh.abdulla@it.uu.se
- Antonios Achilleos, antonios@ru.is