Curriculum vitae

Elli Anastasiadi

Lägerhyddsvägen 1, 752 37 Uppsala

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

PERSONAL DETAILS

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RESEARCH & EDUCATION

Uppsala University (Ongoing)

Uppsala, Sweden

Postdoc position with the algorithmic program verification group.

24/10/2022 - Today

Reykjavik University *PhD, ICE-TCS, Supervisors: Luca Aceto, Anna Ingólfsdóttir*

Reykjavik, Iceland 22/2/2019 - 10/10/2022

Thesis title: "Syntactic approaches to negative results in process algebras and modal logics".

NTUA & NKUA Athens, Greece

Masters program "Algorithms, Logic and Mathematics" GPA: 9.0/10.0.

Sept 2018 - Feb 2019

Specializations: Logic in computer science.

National Technical University of Athens (NTUA)

Athens, Greece

5-year diploma (MSc) in Applied Mathematics GPA: 7.9/10.0.

Sep 2013 - Sep 2018

Specializations: Applied statistics, Mathematics of Computer Science.

Thesis title: "Parameterized complexity and model checking on bounded families of graphs" (grade: 10/10).

PUBLICATIONS

IOURNAL PUBLICATIONS.....

- Axiomatizing recursion-free, regular monitors. June 2022. [DOI] [PDF]
 With Luca Aceto, Antonis Achilleos, and Anna Ingólfsdóttir.
 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 Ingólfsdóttir, and Bas Luttik, Mathias Ruggaard Pedersen
 In: Theoretical Computer Science.

CONFERENCE PUBLICATIONS.....

- On probablilistic Monitorability. December 2022. [DOI] [PDF]
 With Luca Aceto, Antonis Achilleos, Adrian Francalanza, Anna Ingólfsdóttir, 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 Ingólfsdóttir.
 - 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 Ingólfsdóttir.
 - 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: Axiomatising parallel composition in process algebras. July 2021. (Invited paper)
 [DOI] [PDF]
 - $With\ Luca\ Aceto,\ Valentina\ Castiglioni,\ Anna\ Ing\'olfsd\'ottir,\ and\ Bas\ Luttik:$

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 Ingólfsdóttir, and Mathias Ruggaard Pedersen:
 In: 20th Italian Conference on Theoretical Computer Science.

UNDER REVIEW.....

- O Consistency Checking against the Release-Acquire Semantics With Parosh Abdulla and Samuel Grahn. More details omitted due to double-blind review process.
- Complexity results for modal logic with recursion via translations and tableaux [PDF]
 With Luca Aceto, Antonis Achilleos, Adrian Francalanza, and Anna Ingólfsdóttir.

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.....

- o NWPT 2023 Infinite hard families of equations in process algebras. With Luca Aceto.
- RADICAL 2023 Communicating Monitors for Hyper-μHML. 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 Ingolfsdottir Online proceedings.
- PLS 2019 An Axiomatization of Verdict Equivalence over (Closed) Regular Monitors. With Luca Aceto and Anna Ingolfsdottir.

AWARDS & GRANTS

- Reykjavik University Research Fund for the project "REVoCoP: Runtime and Equational Verification of Concurrent Processes". Feb 2022.
- o 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".

COMMITTEES

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 Reykjavik, Iceland Local organiser | June 2022 |
|---|--------------------|
| The New York Colloquium on Algorithms and Complexity New York, USA (online) Organising committee | Dec 2021 |
| 32nd Nordic Workshop on Programming Theory Reykjavik, Iceland Local organiser | Nov 2021 |
| MISC | |
| SIGLOG monthly newsletter Coordinator | Jan 2024 (Ongoing) |
| IT-DoCS Seminars Organiser & Chair | Nov 2023 (Ongoing) |
| Member of the new head of IT-DoCS committee Postdoc representative | Apr 2023 |
| TALKS | |
| Nordic Workshop of Programming Theory Västerås, Sweden Talk title: "Infinite hard families of equations in process algebras" | 22/11/2013 |
| Talk title: "Infinite hard families of equations in process algebras". Athens Coloquium of Algorithms and Complexity | 26/08/2023 |
| Athens, Greece o "Data structures for the verification of weak memory models". | |
| Open Problems in Concurrency Theory Bertinoro, Italy | 27/06/2023 |
| o "Verification of weak memory models". | |
| Formal Methods seminar Marseille, France O "Verification of weak memory models". | 8/06/2023 |
| Formal Methods seminar | 23/06/2022 |
| Gothenburg, Sweden (online) o "Monitoring Hyperproperties with Circuits: Foundation and Extensions". | |
| Division of Computer Systems seminar Uppsala, Sweden (online) | 1/6/2022 |
| "Monitoring hyperproperties with circuits". Henzinger group seminar | 10/5/2022 |
| <i>Institute of science and technology, Austria</i> (<i>online</i>) o "Monitoring hyperproperties with circuits". | |
| ALMA Masters program seminar Athens, Greece | June 2021 |
| "Natural Deduction: From classic to modal logic". CoReLab Seminar | June 2020 |
| Athens, Greece | Julie 2020 |
| o "The Uppaal model checker". | |
| Reykjavik University Computer Science Flash Talks Reykjavik, Iceland "Using equational logic towards formal verification of concurrent systems". | Feb 2020 |
| Nordic Workshop of Programming Theory | Nov 2019 |
| Tallinn, Estonia | |
| Talk title: "Axiomatizing equivalences over regular monitors". Panhelleninc Logic Symposium | June 2019 |
| | , and 2013 |

Anogeia, Greece

• Talk title: "An Axiomatization of Verdict Equivalence over Regular Monitors".

ICE-TCS Theory Day

April 2019

Reykjavik, Iceland

o "Fine-grained complexity".

ICE-TCS Seminar

March 2019

Reykjavik, Iceland

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

TEACHING RECORD

Uppsala University, Division of Computer Systems

Oct 2022 - present

Instructor

Uppsala, Sweden

- Modeling and Verification: Spring 2024.
- Real Time Systems (lectures on Modeling and Verification of Timed Automata): Autumn 2022 & 2023
- O Study group on Automata, Logics, and Infinite games: Autumn 2023

Reykjavik University

March 2019 - Oct 2022

Department of Computer Science

Reykavik, Iceland

Instructor:

- O 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.
- O Logic in Computer Science (T-505-ROKF): Spring 2020.

Teaching assistant:

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

CoReLab NTUA Sep 2018 - Feb 2019

Teaching assistant

Athens, Greece

- o Introduction to Computer Science: Dep. of Electrical Engineering.
- O 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

- O Hired for TA of several courses during undergrad studies.
- Co-organized and gave lectures for various elective courses.
- O 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.
- O 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 sectorAthens, GreeceHigh School Student TutorSep 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).
- O Research Software: Uppaal, Minitab, R, Mathematica, Matlab
- O 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.