

## Curriculum vitae

# Elli Anastasiadi

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Department of Computer Science, Reykjavik University, Iceland

## PERSONAL DETAILS

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## RESEARCH & EDUCATION

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### Uppsala University (Ongoing)

*Postdoc position with the algorithmic program verification group.*

**Uppsala, Sweden**

*Nov 2022 - Today*

### Reykjavik University

*PhD studies in the Equational Logic of Processes.*

**Reykjavik, Iceland**

*March 2019 - Oct 2022*

Thesis proposal title: "Formal verification of concurrent systems: Advances through modal logics and equational reasoning".

### NTUA & NKUA

*Masters program in Algorithms, Logic and Mathematics (ALMA) GPA: 9.0/10.0 .*

**Athens, Greece**

*Sept 2018 - Feb 2019*

Specializations: Logic in computer science.

### National Technical University of Athens (NTUA)

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

**Athens, Greece**

*Sept 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

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- Complexity through Translations for Modal Logic with Recursion. Conference: **Games, Automata, Logics, and Formal Verification**. September 2022.
- On probabilistic Monitorability. Book: **Special issue for Tom Henzinger's 60th birthday**.
- Non-Finite Axiomatisability Results via Reductions: CSP Parallel Composition and CCS Restriction. Conference: **A Journey From Process Algebra via Timed Automata to Model Learning - A Festschrift Dedicated to Frits Vaandrager on the Occasion of His 60th Birthday**. May 2022 .
- Axiomatizing recursion-free, regular monitors.  
Journal: **Journal of Logical and Algebraic Methods in Programming**. April 2022.
- Monitoring hyperproperties with circuits. Short paper.  
Conference: **International Conference on Formal Techniques for Distributed Objects, Components, and Systems**. March 2022.
- In search of lost time: Axiomatizing parallel composition in process algebras.  
Conference: (Invited paper) **Logic in Computer Science 2021**. May 2021.
- On the axiomatisability of priority III: Priority strikes again.  
Journal: **Theoretical Computer Science Volume 837**. Oct 2020.
- On the Axiomatizability of Priority III: The Return of Sequential Composition.  
Conference: **20th Italian Conference on Theoretical Computer Science**. Sep 2019.

## SUBMITTED PAPERS.....

## INFORMAL & WORKSHOP PUBLICATIONS.....

- PLS 2022 (to appear)- Epistemic logic for verifying runtime verification communication protocols (to appear). With Antonis Achilles, 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 2029 - An Axiomatization of Verdict Equivalence over (Closed) Regular Monitors. With Luca Aceto and Anna Ingolfsdottir.

## AWARDS & GRANTS

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- Reykjavik University research fund for the project "REVoCoP: Runtime and Equational Verification of Concurrent Processes". Feb 2022.
- ACM-W, women in computing scholarship award 2019 (towards attending ICALP/LICS).
- Hellenic Mathematical Society, 1st prize in panhellenic mathematical competition Euclid 2009.

## RESEARCH ACTIVITIES

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### ORGANIZER.....

<b>Logic Colloquium 2022</b> <i>Reykjavik, Iceland</i>	<b>June 2022</b>
<b>The New York Colloquium on Algorithms and Complexity</b> <i>New York, USA (online)</i>	<b>Dec 2021</b>
<b>32nd Nordic Workshop on Programming Theory</b> <i>Reykjavik, Iceland</i>	<b>Nov 2021</b>

### TALKS.....

<b>ALMA Masters program seminar</b> <i>Athens, Greece</i> <ul style="list-style-type: none"><li>○ "Natural Deduction: From classic to modal Logic".</li></ul>	<b>June 2021</b>
<b>CoReLab Seminar</b> <i>Athens, Greece</i> <ul style="list-style-type: none"><li>○ "The Uppaal model checker".</li></ul>	<b>June 2020</b>
<b>Reykjavik University Computer Science Flash Talks</b> <i>Reykjavik, Iceland</i> <ul style="list-style-type: none"><li>○ "Using equational logic towards formal verification of concurrent systems".</li></ul>	<b>Feb 2020</b>
<b>Nordic Workshop of Programming languages</b> <i>Tallinn, Estonia</i> <ul style="list-style-type: none"><li>○ Talk title: "Axiomatizing equivalences over regular monitors".</li></ul>	<b>Nov 2019</b>
<b>Panhellenic Logic Symposium</b> <i>Anogetia, Greece</i> <ul style="list-style-type: none"><li>○ Talk title: "An Axiomatization of Verdict Equivalence over Regular Monitors".</li></ul>	<b>June 2019</b>
<b>ICE-TCS Theory Day</b> <i>Reykjavik, Iceland</i> <ul style="list-style-type: none"><li>○ "Fine-grained complexity".</li></ul>	<b>April 2019</b>
<b>ICE-TCS Seminar</b> <i>Reykjavik, Iceland</i> <ul style="list-style-type: none"><li>○ "Parameter trade-offs for the Model Checking Problem".</li></ul>	<b>March 2019</b>

## WORK EXPERIENCE

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### CoReLab NTUA

Teaching assistant / Lab member

Athens, Greece

Sep 2018 - Feb 2019

- Assisted in the teaching of several courses.
- Gave lectures related to the content of masters thesis.
- 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.

### Public education sector

High School Student Tutor

Athens, Greece

Sep 2017 - June 2017

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

## TEACHING RECORD

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### PhD teaching record

Reykjavik University, Department of Computer Science

March 2019 - present

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

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.

## PERSONAL SKILLS

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- 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: 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.