

CLAUDIA CAULI

Doctoral Student, Formal Methods
CSE Department, University of Gothenburg | Chalmers

MAIN INTERESTS **Formal Methods** in Industry and Security. **Ontologies** and logical inference in **Description Logic**. **Modeling** and **Verification** techniques in the Standard and **Probabilistic** or **Quantitative** setting. Abstraction/Refinement. Logics, Automata theory, Game theory, Probabilistic Systems. **Computational Complexity** of the main verification and decision procedures.

PERSONAL DATA

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EDUCATION

3/2019 - 8/2021	PhD in CSE	University of Gothenburg Chalmers, Sweden	
	Description Logics for Threat Modeling		SUPERVISOR: Dr Nir Piterman
9/2016 - 2/2019	PhD in Computing	University of Leicester, UK	
	<i>Transferred to Sweden</i>		SUPERVISOR: Dr Nir Piterman
9/2015 - 9/2016	MSc in Advanced Computational Methods	University of Leicester, UK	
	Awarded with DISTINCTION		AVG MARK: 90.83/100
10/2013 - 7/2015	BSc in Computer Science	Università di Cagliari, Italy	
	<i>Three-Years Degree completed in Two Years</i>		110/110 CUM LAUDE

PUBLICATIONS

1. Cauli, C. and Piterman, N.: *Equivalence of μ^p -Calculus and p -Automata*. Implementation and Application of Automata: 22nd International Conference, CIAA 2017, Proceedings (2017)
[Paper](#) [One-Page Abstract](#) [Poster](#)

INTERNSHIPS

June - Sept '19	Amazon Web Services (Cupertino, CA, United States)
	Return Intern with Oksana Tkachuk, working on Description Logic for reasoning upon and modeling of Cloud Services.
April - June '18	Amazon Web Services (Cupertino, CA, United States)
	PhD Intern in <i>AWS Security / Automated Reasoning Group</i> , working with Dr Oksana Tkachuk on the application of formal methods in the security review process and threat modelling techniques.

PRIZES AND AWARDS

O-Sys Best Student Prize 2016	<i>Dept. of Informatics, UoL</i>
Best Theoretical Project Prize 2016	<i>Dept. of Informatics, UoL</i>
Researcher Development Fund Award 2017	<i>Graduate School, UoL</i>
Best Poster Award – 3 rd Prize	<i>ACM-W UK-Inspire 2017</i>
Best Speaker – 1 st Prize	<i>London Hopper Colloquium 2017</i> Abstract Slides
WomENCourage 2017 – Participation Scholarship	<i>ACM-W Europe</i>

EVENTS

<i>Speaker</i>	ACM-W UK Inspire 2017	<i>University of Hertfordshire, UK, 12 May 2017</i>
<i>Speaker</i>	London Hopper Colloquium 2017	<i>BCS Headquarters London, UK, 25 May 2017</i>

Speaker CIAA 2017 *Université Paris-Est Marne-la-Vallée, Paris, 27–30 June 2017*
Marktoberdorf Summer School *Marktoberdorf, Germany, 2–11 August 2017*
ACM womENcourage 2017 *Universitat Politècnica de Catalunya, Barcelona, 6–8 Sept. 2017*
Highlights of Logics, Games, and Automata *Queen Mary University, London, 12–15 Sept. 2017*
Speaker ICCSW'17 *Imperial College London, 26–27 Sept. 2017*
2nd Winter School in Formal Verification *Jerusalem, 17–21 December 2017*
FLoC 2018 & CAV2018 *University of Oxford, Oxford, 12–16 July 2018*
Invited Speaker London Hopper Colloquium 2018 *BCS HQ London, UK, October 2018*

TEACHING

During my PhD studies at University of Leicester, my teaching obligations included: lab sessions, surgeries, problem classes, coursework marking, exam invigilations, and small-group teaching. I've been a Teaching Assistant for the following modules:

CO7105 *Advanced C++ Programming*
CO2008 *Functional Programming*
CO1012 *Discrete Structures*
CO1005 *Data Structures and Development Environments*
CO1016 *Computer Systems*
CO1003 *Program Design in Java*

THESES

MSc Thesis “AUTOMATA-THEORETIC TECHNIQUES FOR PROBABILISTIC μ -CALCULUS”,
Department of Informatics, University of Leicester, 2016.
Supervisor: Dr Nir PITERMAN

BSc Thesis “SIMULATION AND ANALYSIS OF A RESERVATION MARKETPLACE”,
Department of Mathematics and Informatics, Università degli Studi di Cagliari, 2015.
Supervisor: Dr Massimo BARTOLETTI

CERTIFICATES

THE LEICESTER AWARD	Personal Skills Development Programme	2016
GRE – 313/340	Quantitative 161/170, Verbal 152/170	2015
IELTS – 7.5	International English Language Testing System	2014

TECHNICAL SKILLS

PROGRAMMING	C++, Java, oCaml, Haskell, Bash, Hadoop
TOOLS	Eclipse, Emacs, SVN, Git
OFFICE TOOLS	Word, PowerPoint, Excel, Gimp, L ^A T _E X
OPERATING SYSTEMS	Windows, Ubuntu, MacOS

LANGUAGES

ENGLISH	Fluent	ITALIAN	Native	SPANISH	Beginner
SWEDISH	Beginner				