

# CLAUDIA CAULI

PhD Student & Graduate Teaching Assistant  
Dept. of Informatics, University of Leicester, UK

MAIN INTERESTS Formal methods, Logics, Automata theory, Game theory, Probabilistic Systems.

## PERSONAL DATA

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PHONE: +44 07402 109418 SKYPE: [claudia.cauli](#)  
E-MAIL: [cc488@le.ac.uk](mailto:cc488@le.ac.uk) LINKEDIN: [claudiacauli](#)  
WEBPAGE: [www.claudiacauli.com](http://www.claudiacauli.com) BITBUCKET: [claudiacauli](#)

## EDUCATION

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9/2016 - 9/2020 **PhD in Computing** University of Leicester, UK  
Formal Methods for Probabilistic Systems 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  
*Three-Years Degree completed in Two Years* 110/110 CUM LAUDE

## PUBLICATIONS

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

## INTERNSHIPS

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April - June '18 **Amazon Web Services (Cupertino, CA, United States)**  
Intern in *AWS Security / Automated Reasoning Group*, working with Dr Oksana Tkachuk and Dr Neha Rungta on the introduction of formal methods into the security review process and threat modelling techniques.

## PRIZES AND AWARDS

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

## EVENTS

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*Speaker* ACM-W UK Inspire 2017 *University of Hertfordshire, UK, 12 May 2017*  
*Speaker* London Hopper Colloquium 2017 *BCS Headquarters London, UK, 25 May 2017*  
*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*  
2<sup>nd</sup> Winter School in Formal Verification *Jerusalem, 17–21 December 2017*  
*Invited Speaker* London Hopper Colloquium 2018 *BCS HQ London, UK, October 2018*

## TEACHING

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My teaching obligations include: lab sessions, surgeries, problem classes, coursework marking, exam invigilations, and small-group teaching. I've been a Teaching Assistant for the following modules:

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

## THESES

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MSc Thesis	“AUTOMATA-THEORETIC TECHNIQUES FOR PROBABILISTIC $\mu$ -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

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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

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PROGRAMMING	C++, Java, oCaml, Haskell, Bash, Hadoop
TOOLS	Eclipse, Emacs, SVN, Git
OFFICE TOOLS	Word, PowerPoint, Excel, Gimp, L <sup>A</sup> T <sub>E</sub> X
OPERATING SYSTEMS	Windows, Ubuntu, MacOS

## LANGUAGES

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ENGLISH	Fluent	ITALIAN	Native	SPANISH	Beginner
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