Curriculum Vitae Antonis Achilleos

Personal Information

Name:	Antonios (Antonis) Achilleos
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Google Scholar:	https://scholar.google.com/citations?user=x-U45WoAAAAJ&hl=en

Positions Held:

September 2016 – now:

Postdoctoral researcher at the School of Computer Science, Reykjavik University. The position is part of the project *TheoFoM: Theoretical Foundations of Monitorability* of Luca Aceto, Anna Ingolfsdottir, and Adrian Frankalanza.

September 2015 – August 2016:

Postdoctoral researcher at the Computation and Reasoning Laboratory, Dept. of Computer Science, School of Electrical and Computer Engineering, National Technical University of Athens.

Education:

September 30, 2015:

PhD from the Computer Science department of the Graduate Center of the City University of New York.

Dissertation title:

Interactions and Complexity in Multi-Agent Justification Logic.

Advisor:

Distinguished Professor Sergei Artemov

Committee members:

Professor (emeritus) Melvin Fitting
Professor (emeritus) Stathis Zachos
Professor Samuel Buss

February 1, 2011:

MPhil from the PhD program in Computer Science, the Graduate Center of the City University of New York.

July 21, 2009:

MSc from the Masters Program in Logic and Algorithms, University of Athens.

June 28, 2007:

Diploma from the School of Applied Mathematics and Physical Sciences, National Technical University of Athens.

Research Experience and Interests:

I am generally interested in Logic, Complexity Theory and especially in combinations of the two. As part of my dissertation-related research I focused on Justification Logic and its complexity properties, particularly in a multi-agent setting. At the same time, I also published papers on the complexity of Modal Logic, which is closely related. My background is mostly in Mathematics and Theoretical Computer Science. My latest interests include the foundations of Runtime Verification and Monitorability.

DBLP page: http://dblp.uni-trier.de/pers/hd/a/Achilleos:Antonis
Google Scholar: https://scholar.google.com/citations?user=x-U45WoAAAAJ&hl=en

Journal Publications:

A Complexity Question in Justification Logic.
in Journal of Computer and System Sciences 2014

with Michael Lampis, Valia Mitsou: Parameterized Modal Satisfiability.
in Algorithmica 2012

Conference Presentations:

With Formal Proceedings:

with Luca Aceto, Adrian Francalanza, Anna Ingólfsdóttir, Sævar Örn Kjartansson:
On the Complexity of Determinizing Monitors
in CIAA 2017 (to appear)

Modal Logics with Hard Diamond-free Fragments
in LFCS 2016

NEXP-completeness and Universal Hardness Results for Justification Logic.
in CSR 2015

Tableaux and Complexity Bounds for a Multiagent Justification Logic with Interacting Justifications
in EUMAS 2014

On the Complexity of Two-agent Justification Logic
in CLIMA XV (2014)

Complexity bounds for Multiagent Justification Logic
in the Logic Colloquium 2014

A Complexity Question in Justification Logic
in WoLLIC 2011

with Michael Lampis, Valia Mitsou: Parameterized Modal Satisfiability
in ICALP 2010

Conference Presentations (continued):

Without Formal Proceedings:

with Luca Aceto, Anna Ingólfsdóttir, and Adrian Francalanza:
The Complexity of Identifying Characteristic Formulas for muHML.
in PLS11 2017

with Michael Lampis: Closing a Gap in the Complexity of Refinement Modal Logic.
in PLS9 2013 and LCC 2014

Modal Logics with Hard Diamond-free Fragments.
in CiE 2014

A Multi-agent Justification Logic, Interactions and a Complexity Result.
in PLS8 2011

Work under Submission:

with Luca Aceto, Anna Ingólfsdóttir, Adrian Francalanza, Sævar Örn Kjartansson:
Determinizing Monitors for HML with Recursion.

with Luca Aceto, Anna Ingólfsdóttir, and Adrian Francalanza:
Monitoring for Silent Actions.

with Michael Lampis: Closing a Gap in the Complexity of Refinement Modal Logic.

The Completeness Problem for Modal Logic.

Teaching Experience and Interests:

I have experience teaching introductory Computer Science courses, like introduction to Computer Science or Programming as well as more advanced courses, like Analysis of Algorithms, Intermediate Programming, or Discrete Mathematics. I have also taught an advanced graduate-level course on Logic, Automata, and Games and organized a study group of graduate students on Logic in Fall 2015. I believe my strength lies in teaching more theoretical courses and I particularly enjoy explaining notions that are usually considered more advanced/abstract, like structural complexity theory, even in a lower-level course. My background is in Mathematics and Logic, with a strong foundation in Theoretical Computer Science, so the courses in these areas are the ones I enjoy teaching most.

Teaching:

Master's program in Logic and Algorithms (Interuniversity: UoAthens, NTUA, and UoPatras):
Spring 2016:
Λ07, *Logic, Automata, and Games*

College of Staten Island, CUNY (as Adjunct Lecturer, from February 1 2014 to June 1 2015):
Spring 2015:
CSC 126, *Introduction to Computer Science.*
Spring and Fall 2014:
CSC382, *Analysis of Algorithms*.

City College, CUNY (as Adjunct Lecturer, from September 1, 2011 to December 31, 2011; and from September 1, 2014 to June 1, 2015):
Fall 2014 and Spring 2015:
CSC102, *Introduction to Computer Science* (Recitation class, 2 sections).
Fall 2011:
CSC104, *Discrete Mathematical Structures*.

Hunter College, CUNY (as Adjunct Lecturer, from September 1, 2013 to December 31, 2013):
Fall 2013:
CSCI135, *Software Design and Analysis I*.
CSCI136, *Supervised C++ Programming Lab*.

Brooklyn College, CUNY (as Graduate Teaching Fellow, from September 1, 2009 to August 31, 2012):
2009-2010:
CC312, *Computing: its Nature, Power and Limits* (3 sections in total).
CIS11, *Discrete Structures*.
2010-2011:
CORC1312, *Computing: its Nature, Power and Limits* (3 sections in total).
CISC1050: *Introduction to Computer Applications*.
2011-2012:
CORC1312, *Computing: its Nature, Power and Limits* (4 sections in total).

National Technical University of Athens:
2007-2008:
Lab assistant for *Introduction to Programming* and *Algorithms and Complexity*
Teaching Assistant for *Automata and Formal Grammars* and *Models of Computation*

Other Work:

Kingsborough Community College, CUNY (from September 1, 2012 to August 31, 2013):
Writing Fellow during the academic year 2012-2013

Organized:

Helped organize the 2nd Athens Colloquium on Algorithms and Complexity.

Co-organized the 2nd – 7th (2009 through 2015) New York Colloquium on Algorithms and Complexity (NYCAC).

Fellowships and awards:

Two ASL Student Travel Awards (2014):
To attend Computability in Europe 2014 and the Vienna Summer of Logic 2014

Writing Fellowship (academic year 2012-2013):
I was selected to become a Writing Fellow, be trained in the Writing Across the curriculum pedagogical philosophy and contribute to the WAC program as a Writing Fellow at Kingsborough Community College. At KBCC I went through the WAC certification process for KBCC faculty; I then helped guide faculty through that certification process; I advised students with their writing; I redesigned the WAC website for KBCC in collaboration with the certification coordinator, Professor Kate Garretson.

Doctoral Student Research Grant (2011, 2013):
I submitted two research proposals, which were accepted in 2011 and 2013, for which I was awarded $3050 in total for travel expenses.

Enhanced Chancellor's Fellowship (2008-2013):
Stipend and Teaching fellowship from the Graduate Center of CUNY.
Approx. $18,000 plus tuition per year