

# IOANNIS MARKAKIS

Ph.D. Candidate in Computer Science

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jmarkakis



## EDUCATION

Ph.D. in Computer Science

University of Cambridge

Oct 2020 – Jun 2024 (Expected)  
Cambridge, UK

- Thesis title: Generalised signatures and their computads
- My research is supported by a departmental studentship and a scholarship by the Onassis foundation.
- I was awarded two College Senior Scholarships by Fitzwilliam college for my performance.

M.A. in Mathematics

University of Maryland

Sep 2017 – May 2020  
College Park, Maryland, USA

- Thesis title: Cardinal powers and Silver’s theorem.
- I passed the Algebra, and the Geometry and Topology qualifying exams at the PhD level.
- GPA : 4.0 / 4.0

Ptychion in Mathematics

University of Crete

Sep 2013 - Jun 2017  
Heraklion, Crete, Greece

- I was awarded the Stilianos Pichoridis Award for my outstanding performance.
- I was top of my class with a GPA of 9.34 / 10
- I was awarder the Chrisanthos and Anastasia Karidi Scholarship for having the highest entrance score in my year.
- I spent the academic year 2016 - 2017 as an Erasmus exchange student at the University of Barcelona.

## PUBLICATIONS

[1] Ioannis Markakis. *Computads for Generalised Signatures*. 2023. arXiv: 2303.11978 [math]. preprint.

[2] Christopher J. Dean, Eric Finster, Ioannis Markakis, David Reutter, and Jamie Vicary. *Computads for weak  $\omega$ -categories as an inductive type*. 2022. arXiv: 2208.08719. preprint.

[3] Dimitrios I. Dais and Ioannis Markakis. *Computing minimal generating systems for some special toric ideals*. 2017. arXiv: 1705.06339 [math]. preprint.

## TALKS

- Computads for generalised signatures, Peripatetic Seminar on Sheaves and Logic 107, Athens, Greece (01 Apr 2023)
- Computads for generalised signatures, YaMCATS 30, Birmingham, UK (15 Mar 2023)
- Computads for weak  $\omega$ -categories as an inductive type, TACL 2022, Coimbra, Portugal (23 Jun 2022)

## TEACHING

Supervisor

University of Cambridge

Oct 2020 - Jun 2024

I have supervised students from King’s, Claire, Emmanuel and Selwyn colleges on Discrete Mathematics, Logic and Proof, and Computation Theory.

Teaching Assistant

University of Maryland

Sep 2017 - May 2020

I was a TA for the courses Precalculus, and Calculus I. I was an instructor for the course College Algebra with Trigonometry. I was a greater for the courses Introduction to Abstract Algebra, Axiomatic Set Theory, Algebraic Geometry, and Logic I.

Undergraduate Teaching Assistant

University of Crete

Sep 2014 - Sep 2016

I held the discussion sections for teh course Foundations of Mathematics.

## OTHER SKILLS

English  
Spanish  
German  
Greek  
Agda  
Git  
L<sup>A</sup>T<sub>E</sub>X

