

Ioannis **Markakis**

Fitzwilliam College, Storey's Way, Cambridge, CB3 0DG, UK

📕 +44 7429 143342 | 🗷 ioannis.markakis@cl.cam.ac.uk | 😭 jmarkakis.github.io | 🖸 jmarkakis | 🞓 Ioannis Markakis

Education

University of Cambridge

Cambridge, UK

Oct. 2020 - May 2024

PH. D. IN COMPUTER SCIENCE

Thesis title: Computads for Generalised Signatures

· Supervised by Prof. Jamie Vicary

University of Maryland

College Park, Maryland, USA

Sep. 2017 - May 2020

M.A. IN MATHEMATICS

· Passed two qualifying exams at the Ph.D. level

• GPA: 4.0 / 4.0

• Thesis title: Cardinal powers and Silver's theorem

· Supervised by Prof. Michael Chris Laskowski

University of Crete

Heraklion, Crete, Greece

Sep. 2013 - Jun. 2017

PTYCHION IN MATHEMATICS

• Entered, and graduated top of my class

• GPA: 9.34 / 10.00

• Was an Erasmus exchange student at University of Barcelona for the academic year 2016 - 2017

• Completed 6 courses at a graduate level

Awards_

Fitzwilliam College Cambridge, UK

Mar. 2022 - Nov. 2022 COLLEGE SENIOR SCHOLARSHIP

I received two scholarships for exceptional performance at graduate studies

University of Cambridge Cambridge, UK

DEPARTMENTAL STUDENTSHIP

Sep. 2020

· Studentship for 3.5 years of PhD studies

Onassis Foundation Cambridge, UK

SCHOLARSHIP

Sep. 2020

· Scholarship for 4 years of PhD Studies

University of Crete Heraklion, Crete, Greece

"STILIANOS PICHORIDIS" AWARD

Nov 2016

· Outstanding student award given at most annually by the Department of Mathematics and Applied Mathematics of University of Crete

University of Crete Heraklion, Crete, Greece

"CHRISANTHOS AND ANASTASIA KARIDI" SCHOLARSHIP

Jul. 2014

• Scholarship given annually to the student with the highest entrance score in the Department of Mathematics and Applied Mathematics of University of Crete

Eurobank Heraklion, Crete, Greece

MONETARY AWARD

Oct. 2013

- · Given annually to the student of the 8th General Lyceum of Heraklion with the highest perfomance in the Hellenic National Examinations.
- Scored 19,099 / 20,000 (top 0.42% nationwide).

Hellenic Mathematic Society

Athens, Greece

BRONZE MEDAL May 2010

• Award given for my performance in the National Mathematical Olympiad "Archimedes"

Publications

Duality for weak ω -categories (Preprint)

Thibaut Benjamin, Ioannis Markakis

2024

Computads for Generalised Signatures (Preprint)

Ioannis Markakis

Computads for weak ω -categories as an inductive type (Preprint)

Christopher J. Dean, Eric Finster, Ioannis Markakis, David Reutter, Jamie Vicary

Computing minimal generating systems for some special toric ideals (Preprint)

Dimitrios I. Dais, Ioannis Markakis

2017

Presentations _____

Apr 2023 Peripatetic Seminar on Sheaves and Logic 107, Computads for generalised signatures	Athens, Greece
Mar 2023 Yorkshire and Midlands Category Theory Seminar 30, Computads for generalised signatures	Birmingham, UK
Jun 2022 Topology, Algebra and Categories in Logic 2022. Computads for weak ω -categories	Coimbra, Portugal

Conferences

Aug. 2023 Pittsposium	Cambridge, UK
Jul. 2023 Category Theory 2023	Louvain-la-Neuve,
	Belgium
Jun. 2023 31th YaMCATS Meeting	Leeds, UK
Jun. 2023 A Panorama of Homotopy Theory	Oxford, UK
Apr. 2023 11th Symposium on Compositional Structures	Palaiseau, France
Apr. 2023 Peripatetic Seminar in Sheaves and Logic 107	Athens, Greece
Mar. 2023 30th YaMCATS Meeting	Birmingham, UK
Dec. 2022 10th Symposium on Compositional Structures	Edinburgh, UK
Sep. 2022 28th YaMCATS Meeting	Cambridge, UK
Sep. 2022 9th Symposium on Compositional Structures	Como, Italy
Jun. 2022 Topology, Algebra and Categories in Logic 2022	Coimbra, Portugal
May 2022 27th YaMCATS Meeting	Leeds, UK
Apr. 2022 4th Midlands Graduate School in the Foundations of Computing Science	Nottingham, UK
Feb. 2022 Logic and higher structures	Marseille, France
Jan. 2022 26th YaMCATS Meeting	Birmingham, UK
Aug. 2021 Category Theory 20→21	Genoa, Italy
Jul. 2021 Applied Category Theory 2021	Cambridge, UK

Experience

Applied Category Theory 2021

LOCAL CONFERENCE ORGANISER

University of Cambridge

SUPERVISOR

• Supervised students from King's, Claire, Emmanuel, and Selwyn colleges

• Supervised the courses "Discrete Mathematics", "Logic and Proof", and "Computation Theory"

Cambridge, UK

Jul. 2021

Cambridge, UK

Oct. 2020 - May 2024

Feb. 2014 - May 2016

TEACHING ASSISTANT Sep. 2017 - May 2020

- I was an independent instructor for the course "College Algebra and Trigonometry"
 - Gave lectures
 - Designed and graded quizzes
 - Graded homework and exams
- I was a Teaching Assistant for "Precalculus" and "Calculus I"
 - Gave recitation lectures
 - Graded homework and exams
- I was a grader for the courses
 - Introduction to Abstract Algebra
 - Axiomatic Set Theory
 - (Graduate) Logic I
 - (Graduate) Algebraic Geometry I

University of Crete Herakleion, Crete, Greece

• I gave recitation lectures for "Foundations of Mathematics" for two semesters

Other Skils_

TEACHING ASSISTANT

- Fluent in English, Spanish, and Greek
- Basic understanding of German
- Confident in using LTFX
- Confident in using the proof assistants Agda and Lean
- Basic experience in programming in Python and Haskell