

Dimitrios Tsintsilidas

✉ jim.jt99@outlook.com • 🌐 dimitristsin.github.io

Academic Interests

Complexity Theory and its connections with:

- Logic (Proof Complexity & Bounded Arithmetic)
- Algebra (Algebraic/Geometric Complexity Theory & Representation Theory)
- Quantum Cryptography

Education

Doctorate of Philosophy

October 2023 – Present

in Computer Science

University of Warwick

- Supervised by Prof. Igor Carboni Oliveira and Prof. Christian Ikenmeyer
- Working with the Theory and Foundations (FoCS) group

Master of Science

October 2022 – September 2023

in Pure Mathematics

Aristotle University of Thessaloniki

- GPA: 9.85/10 (1st in my class)
- Master's Thesis: "*Sheaves on Topological Spaces, Sites and Group Categories*" (link)
supervised by Prof. Chrysostomos Psaroudakis

Diploma (with integrated Master's)

September 2017 – July 2022

in Electrical and Computer Engineering

Aristotle University of Thessaloniki

- GPA: 9.5/10 (1st in my class)
- Diploma Thesis: "*Certifiable Random Number Generation with Nonlocal Games*" (link)
supervised by Dr. Alex Bredariol Grilo

Honors and Awards (Selected)

Warwick's Chancellors International Scholarship (2023-2027)

- Awarded by the University of Warwick for my PhD studies

58th International Mathematical Olympiad (IMO 2017)

- Silver Medal

26th International Mathematics Competition (IMC 2019)

- Bronze Medal

South Eastern European Mathematical Olympiad for University Students (SEEMOUS)

- Silver Medal in 2019
- Bronze Medal in 2018

32nd Balkan Mathematical Olympiad (BMO 2015)

- Bronze Medal

18th Junior Balkan Mathematical Olympiad (JBMO 2014)

- Silver Medal

Greek National Mathematical Olympiad "Archimedes" (2013-2017)

- 3 Gold Medals
- 2 Silver Medals

Research and Teaching Experience

Graduate Teaching Assistant

Term 2, 2023/2024

CS419 – Quantum Computing (Prof. Sergii Strelchuk)

CS356 – Approximation and Randomised Algorithms (Prof. Artur Czumaj)

Department of Computer Science at the University of Warwick

Graduate Teaching Assistant

Term 2, 2023/2024

MA3E1 – Groups and Representations (Prof. Christian Ikenmeyer)

Department of Mathematics at the University of Warwick

Research Internship

September 2021 – January 2022

LIP6 (CNRS and Sorbonne University)

Supervisor: Dr. Alex Bredariol Grilo

Research topic: "Nonlocal Games with applications in Complexity Theory and Cryptography"

Undergraduate Research Project

September 2020 – March 2021

Wireless Communications and Information Processing (WCIP) Group of Aristotle University of Thessaloniki

P.I.: Prof. George K. Karagiannidis

Research topic: "Applications of Graph Theory to Nonconvex Network Optimisation Problems"

Teaching Assistant

Winter Semester, 2018/2019

"Problems for Mathematical Olympiads" Course (Prof. Romanos Diogenes Malikiosis)

Department of Mathematics at Aristotle University of Thessaloniki

Academic Service and Presentations

17th South Eastern European Mathematical Olympiad for University Students 2023

○ Leader of the Aristotle University Team (March 2023 – 3rd place)

16th South Eastern European Mathematical Olympiad for University Students 2022

○ Leader of the Aristotle University Team (May 2022)

12th Electrical and Computer Engineering Student Conference (ECESCON 12) of Greece

○ Volunteer – Member of Academics Team (September 2020 - April 2021)

14th South Eastern European Mathematical Olympiad for University Students 2020

○ Head of the Volunteers Team (March 2020)

Aristotle University of Thessaloniki IEEE Student Branch event

○ Oral presentation: "What an Engineer Should Know about NP-Completeness" (October 2019)

8th International Week Dedicated to Maths in Thessaloniki

○ Oral presentation: "Number Theory and Combinatorics" (April 2016)

Languages

○ Greek (Native)

○ English (Fluent–C2 level)

○ German (Intermediate–B2 level)

Programming Languages

○ Matlab

○ C/C++

○ Java

○ Python

○ AMPL

○ Latex