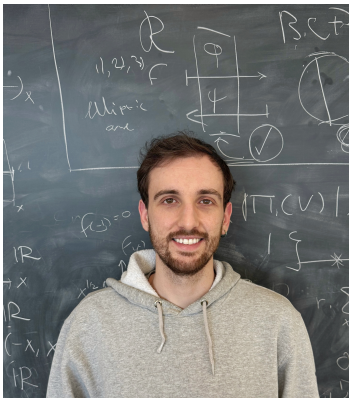


Petros Ploumidis

Curriculum Vitae

Contact Information

E-mail petros.ploumidis@mail.utoronto.ca

Address 215 Huron St., Room 1012, Toronto, Ontario, Canada, M5S 1A2

Citizenship

Canadian, Greek

Education

July 2024–Present **PhD Candidate**, *University of Toronto*
Supervisor: Arul Shankar

Sept 2022–July 2024 **PhD Candidate**, *University of Toronto*
Completing Mandatory Requirements for Ph.D. program

Sept 2017–Sept 2021 **BSc in Mathematics**, *National and Kapodistrian University of Athens*
GPA: 9.11/10

Research Interests

Number Theory, Arithmetic Statistics, Safety & AI, Lean

Publications and Preprints

2026 Petros Ploumidis. *Escape and Non-Escape of Mass for Monogenic Binary Cubic Forms*. Preprint, arXiv:2609.33027.

Projects and Teaching Experience

Fall 2025 **Observation TA**

- Give constructive feedback on their teaching through in-class observations

Teaching Assistant Experience

- *Head* TA for MAT223

Putnam Mathematical Competition

- Coached students for the Putnam Mathematical Competition, developing their problem-solving and proof-writing skills.

Summer 2026 **Course Instructor Experience**

- MAT223

Winter 2026 **Teaching Assistant Experience**

- MAT223, MAT224

Winter 2026 **Teaching Assistant Experience**

- MAT223, MAT224

Fall 2025 **Observation TA**

- Give constructive feedback on their teaching through in-class observations

Teaching Assistant Experience

- MAT223

Summer 2025 **Teaching Assistant Experience**

- MAT237

Winter 2025 **Teaching Experience for the Directed Reading Program (DRP)**

- Taught the reading course *Readings in Measure Theory*.

2024-2025 **Teaching Assistant Experience**

- MAT223F, MAT223S, MAT224S

Summer 2024 **Teaching Assistant Experience**

- MAT137Y (Online)

2023-2024 **Teaching Assistant Experience**

- MAT223F, MAT223S, MLC

2022-2023 **Teaching Assistant Experience**

- MAT223F, MAT223S, MAT133Y

2021 **Introduction to Group Theory: Exercises with Solutions**

- Developed a 14-page document with multiple solutions for group theory exercises.
- Uploaded and shared with fellow students through the student forum.
- Translated into Braille by fellow student Andrianna Samoili.

2018 **Basics of Differential Equations: Exercises with Solutions**

- Presented exercises in the undergraduate course *Ordinary Differential Equations* under the supervision of Dr. Evangelia Kotta-Athanassiadou.

Languages

Greek	Native
English	Fluent
German	B2 (Goethe Certificate)

Conferences & Workshops

Scientific meeting in Using AI to find examples, CRM, April 27 - May 1, 2026, at UdeM

Scientific meeting in Arithmetic Statistics , CRM, March 2 - 6, 2026, at UdeM

19th Panhellenic Conference on Mathematical Analysis, NTUA, December 18-20, 2025, at the School of Applied Mathematical and Physical Sciences.

Bird's Eye Conference, University of Toronto, March 23-24, 2025.

1st Greek Number Theory Meeting, National and Kapodistrian University of Athens, December 21-22, 2023

7th MATH@NTUA Summer School on Mathematical Analysis in honor of Spiros Argyros, 27/6-3/7/2024.

Junior Number Theory Seminar, University of Toronto, 2022-2025.

Eighth Summer School in Operator Theory, National and Kapodistrian University of Athens, July 2019.

Technical Skills

Matlab, LaTeX, Microsoft Office, Python, Lean

Extracurricular Activities

Reading	Philosophy of Mathematics, Greek Mathematics - Euclidean Elements
Basketball	**Player** (2008–2019) for **Panionios BC** and **Palaio Faliro BC**
	Coach (2017–2022) at **Panionios BC**, **AE Kallitheas BC**, and **Kronos BC**
Sports	Participation in School Basketball and Track Championships (2015–2017)
Billiards	Greek Category **C** Ranked Player

Volunteering

Active participant in Red Cross Refugee Programs, Greece (2016-2018).

Created and adapted mathematical notes to be accessible for blind students, supporting inclusive learning in mathematics, National and Kapodistrian University of Athens (2017-2019).

Assisted in organizing and managing the graduate student basketball team for the IML League, facilitating team coordination and participation (2022–Present).

DRP Mentor, University of Toronto (2025).

Graduate Student Mentor for First-Year PhD Students, University of Toronto (2024-present).

Coached students for the Putnam Mathematical Competition, developing their problem-solving and proof-writing skills (2026).

Awards

Fall 2025 Ontario Graduate Scholarship

The Ontario Graduate Scholarship (OGS) program encourages excellence in graduate studies at publicly-assisted universities in Ontario.

Margaret Isobel Elliott Graduate Scholarship

Velimir Jurdjevic Graduate Scholarship

Winter 2025 Ida Bulat Memorial Graduate Fellowship

Honoring exceptional graduate student teaching.

Fall 2024 Margaret Haviland Kennedy Memorial Scholarship Fund

Awarded to graduate students who demonstrated academic excellence.