

Marina Anagnostopoulou-Merkouri

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<https://marinaanagno.github.io>

EDUCATION

PhD in Mathematics

2023 - Present

University of Bristol

Supervisor: Prof. Tim Burness

Master in Pure Mathematics (First Class)

2019 - 2023

University of St Andrews

Final year project supervisor: Prof. Colva Roney-Dougal.

PUBLICATIONS AND PREPRINTS

[6] [Permutation groups, partition lattices and block structures](#)

joint with R.A. Bailey and Peter J. Cameron

50 pages, submitted.

[5] [Computing finite index congruences of finitely presented semigroups and monoids](#)

joint with Reinis Cirpons, James D. Mitchell, and Maria Tsalakou

50 pages, submitted.

[4] [On the regularity number of a finite group and other base-related invariants](#)

joint with Timothy C. Burness

Journal of the London Mathematical Society 110 (2024), e70035, 65 pp.

52 pages, to appear.

[3] [Properties of congruence lattices of graph inverse semigroups](#)

joint with Zachary Mesyan and James D. Mitchell

International Journal of Algebra and Computation 34 (2024), 371–396.

[2] [Pre-primitive permutation groups](#)

joint with Peter J. Cameron and Enoch Suleiman

Journal of Algebra 636 (2023), 695–715.

[1] [Association schemes with given stratum dimensions: on a paper of Peter M. Neumann](#)

joint with Peter J. Cameron

Algebraic Combinatorics 6 (2023), 1189–1210.

TALKS

[15] Manchester Algebra Seminar (University of Manchester; upcoming)

March 2025

[14] Warwick Algebra Seminar (University of Warwick; upcoming)

March 2025

[13] Bristol Combinatorics Seminar (University of Bristol)

February 2025

[12] Junior London Algebra Colloquium (Imperial College London)

October 2024

[11] Topics in Group Theory - Andrea Lucchini's birthday conference (University of Padua)

September 2024

[10] Heilbronn HDP event (University of Bristol)	<i>September 2024</i>
[9] Postgraduate Group Theory Conference (University of Birmingham)	<i>July 2024</i>
[8] Groups in Florence IV (University of Florence)	<i>July 2024</i>
[7] Bristol Junior Geometry Seminar (University of Bristol)	<i>February 2024</i>
[6] Bristol Postgraduate Seminar (University of Bristol)	<i>November 2023</i>
[5] Seminars on Groups and Graphs, SUSTech (Shenzhen, China; Online)	<i>October 2023</i>
[4] York Semigroups seminar (University of York)	<i>March 2023</i>
[3] Tomorrow's Mathematicians Today (University of Greenwich; Online)	<i>March 2023</i>
[2] St Andrews Maths Society Lunchtime Lectures (University of St Andrews)	<i>November 2022</i>
[1] Tomorrow's Mathematicians Today (University of Greenwich; Online)	<i>February 2022</i>

CONFERENCES

[8] Topics in Group Theory conference (University of Padua)	<i>September 2024</i>
[7] Heilbronn Annual Conference (University of Bristol)	<i>September 2024</i>
[6] Postgraduate Group Theory Conference (University of Birmingham)	<i>July 2024</i>
[5] Groups in Florence IV (University of Florence)	<i>July 2024</i>
[4] New Perspectives in Computational Group Theory (University of Warwick)	<i>June 2024</i>
[3] Heilbronn Annual Conference (University of Bristol)	<i>September 2023</i>
[2] Conference in Theoretical and Computational Algebra (Pocinho, Portugal)	<i>July 2023</i>
[1] Heilbronn Summer School in Probabilistic Group Theory (University of Bristol)	<i>June 2023</i>

SOFTWARE

Digraphs GAP package

-Efficiency improvement and implementation of algorithms for canonical labelling and graph dominators

Semigroups GAP package

-Construction and implementation of new algorithms for semigroup congruences

TEACHING

University of Bristol

-Introduction to Pure Mathematics tutor

-Linear algebra tutor

-Perspectives in Mathematics demonstrator

September 2023 - Present

September 2024 - December 2024

September 2023 - May 2024

December 2023, November 2024

Private tutoring

-Prepared notes and delivered tutorials for GCSE, A-level students, and IB students.

November 2022 - April 2023

MyTutor

-Prepared notes and delivered tutorials for GCSE and A-level students.

December 2020 - September 2022

Coronavirus Tutoring Initiative

-Prepared notes and delivered tutorials for GCSE and A-level students.

April 2020 - October 2020

FUNDING AWARDED

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|---|-----------------------------------|
| - St Andrews Research Internship Scheme | <i>March 2022, September 2022</i> |
| - University of St Andrews Careers Centre Employability Bursary | <i>July 2022</i> |
| - LMS Undergraduate Research Bursary | <i>June 2022</i> |

LANGUAGES

Greek (Native), English (C2), French (C2), German (B2).

OTHER

Referee for the Journal of Group Theory

Postgraduate Group Theory Conference 2025 organiser *August 2024 - Present*

Bristol Junior Algebra and Combinatorics Seminar organiser *January 2024 - Present*

-New seminar series aimed at PhD students and postdocs in algebra and combinatorics.

Maths Base Helper *September 2020 - May 2023*

- Helped first and second year St Andrews students with questions.

School of Mathematics and Statistics Ambassador *October 2021 - April 2023*

-Helped at the school of mathematics and statistics visiting day talks, attended by prospective students.

Zero Gravity mentor *July 2022 - May 2023*

-Mentored a final year school pupil from a low-income background that wants to study mathematics in university.

University of St Andrews Karate Club

- Captain (04/2021 - 04/2023), Covid Officer (09/2020 - 03/22), Wellbeing Officer (04/2020 - 10/2021, 04/2022 - 04/2023), Safety and Fundraising Officer (04/2020 - 04/2021).

University of St Andrews Mathematics Society

- Social Representative. *April 2021 - March 2022*