Marina Anagnostopoulou-Merkouri

marina.anagnostopoulou-merkouri@bristol.ac.uk
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
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 Birstol) *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)	*September 2024*
[9] Postgraduate Group Theory Conference (University of Birmingham)	*July 2024*
[8] Groups in Florence IV (University of Florence)	*July 2024*
[7] Bristol Junior Geometry Seminar (University of Bristol)	*February 2024*
[6] Bristol Postgraduate Seminar (University of Bristol)	*November 2023*
[5] Seminars on Groups and Graphs, SUSTech (Shenzhen, China; Online)	*October 2023*
[4] York Semigroups seminar (University of York)	*March 2023*
[3] Tomorrow's Mathematicians Today (University of Greenwich; Online)	*March 2023*
[2] St Andrews Maths Society Lunchtime Lectures (University of St Andrews)	*November 2022*
[1] Tomorrow's Mathematicians Today (University of Greenwich; Online)	*February 2022*

CONFERENCES

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

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	*September 2023 - Present*
-Introduction to Pure Mathematics tutor	*September 2024 - December 2024*
-Linear algebra tutor	*September 2023 - May 2024*
-Perspectives in Mathematics demonstrator	*December 2023, November 2024*
Private tutoring	*November 2022 - April 2023*
-Prepared notes and delivered tutorials for GCSE, A-level students, and IB students.	
MyTutor	*December 2020 - September 2022*
-Prepared notes and delivered tutorials for GCSE and A-level students.	
Coronavirus Tutoring Initiative	*April 2020 - October 2020*
-Prepared notes and delivered tutorials for GCSE and A-level students.	

FUNDING AWARDED

- St Andrews Research Internship Scheme   *March 2022, September 2022*
- University of St Andrews Careers Centre Employability Bursary   *July 2022*
- LMS Undergraduate Research Bursary   *June 2022*

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*