Maria Tsalakou



EDUCATION

2019 - present	PhD Mathematics at University of St Andrews
	Supervised by James D. Mitchell
	Research on practical computation with finitely presented semigroups.
2017 - 2018	MSc Mathematics at University of St Andrews
	with distinction
2013 - 2017	BSc Mathematics at University of Cyprus

PUBLICATIONS AND PREPRINTS

- [3] (with Marina Anagnostopoulou-Merkouri and James D. Mitchell) Computing the congruences of a finite semigroup or monoid, submitted; https://arxiv.org/abs/2302.06295
- [2] (with T. D. H. Coleman, J. D. Mitchell, F. L. Smith) **The Todd-Coxeter Algorithm for Semi-groups and Monoids**, submitted; https://arxiv.org/abs/2203.11148
- [1] (with J. D. Mitchell) An explicit algorithm for normal forms in small overlap monoids, to appear; https://arxiv.org/abs/2105.12125

TALKS

Oct 2022	Practical computation with finitely presented monoids - Semigroups Seminar, Uni-	
	versity of York	

- Apr 2022 **The low index congruences algorithm for monoids** Postgraduate Interdisciplinary Mathematics Symposium, University of St Andrews
- Mar 2022 **Computing congruences of finitely presented monoids** North British Semigroups and Applications Network meeting at the University of Manchester
- Nov 2021 Computing inverse semigroups Pure Postgraduate Seminar, University of St Andrews
- Oct 2021 **Presentations of inverse monoids** Algebra and Combinatorics Seminar, University of St Andrews
- Jul 2021 Computational methods for small overlap monoids North British Semigroups and Applications Network (online seminar)
- Feb 2020 The word problem in small overlap monoids Pure Postgraduate Seminar, University of St Andrews

EXPERIENCE

2019 - present	Graduate Teaching Assistant, University of St Andrews, Scotland
	Tutor for small group undergraduate tutorials for Abstract Algebra, Linear Mathematics
	and Mathematics
2018 - 2019	Research Executive, Pulse Market Research, Cyprus

OTHER ACTIVITIES

Sep 2021 - Sep 2022	Postgraduate Research Representative for the School of Mathematics and Statistics,
	University of St Andrews
Jan 2021	Postgraduate Interdisciplinary Mathematics Symposium organiser, University of St
	Andrews
2019 - 2020	Mentor in Peer Mentoring scheme, University of St Andrews

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