# Alina Ostafe

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#### Personal information

Date of birth: January 18, 1982 Citizenship: Australian, Romanian

#### Education

2010	PhD, Institute of Mathematics, University of Zürich, Switzerland
	PhD thesis: "Polynomial Dynamics and Pseudorandomness"
	Supervisors: Prof. Joachim Rosenthal, Prof. Markus Brodmann
2007	MSc, Faculty of Mathematics, University of Bucharest, Romania
	Master thesis: "Generalized Alexander Duality and Applications"
2005	Diploma in advanced undergraduate studies (Mathematics),
	Scoala Normala Superioara Bucharest, Romania
2005	BSc, Mathematics and Informatics
	Ovidius University, Constanta, Romania

# Current positions

1/2023– Associate Professor, School of Mathematics and Statistics, The University of New South Wales (UNSW), Sydney, Australia

# Previous positions

7/2018-12/2022	Senior Lecturer, School of Mathematics and Statistics,
	UNSW, Sydney, Australia
10/2016 - 6/2018	Lecturer, School of Mathematics and Statistics, UNSW, Sydney, Australia
10/2013 - 9/2016	Vice-Chancellor's Postdoctoral Fellow, School of Mathematics and Statistics,
	UNSW, Sydney, Australia
10/2010-9/2013	Postdoc, Department of Computing, Macquarie University, Sydney, Australia
	(funded by the Swiss National Science Foundation Grants 133399 and 139679 and the Australian Research Council)
9/2007-9/2010	Research/Teaching Assistant, Institute of Mathematics, University of Zürich,
3/2001 3/2010	Switzerland
9/2005-8/2007	Research Assistant, Institute of Mathematics "Simion Stoilow"
	of the Romanian Academy, Bucharest, Romania

## Research Interests

Number Theory (Diophantine problems; Polynomials and rational functions over local and global fields; Finite fields; Arithmetic statistics of matrices)
Arithmetic dynamical systems

# Fellowships and Grants

Fellowships and Grants							
2023–2026	Australian Research Council Discovery Project (427,000 AUD) (with I. Shparlinski)						
2020–2023	Australian Research Council Discovery Project (435,000 AUD) (with I. Shparlinski)						
2018–2020	Australian Research Council Discovery Project (401,706 AUD) (with J. Roberts and I. Shparlinski)						
2022, 2017, 2016, 2015	UNSW Science Faculty Research Grants (5,000 AUD in 2022, 6,500 AUD in 2017, 8,364 AUD in 2016, 7,400 AUD in 2015)						
2019	NSW Department of Industry Conference funding (4,000 AUD) (with J. Roberts, I. Shparlinski and L. Zhao)						
2017	UNSW Start-up Grant (10,000 AUD)						
2014	Workshop AMSI/AustMS-AMSI/ANZIAM funding (20,000 AUD) (with B. McKay, J. Roberts and I. Shparlinski)						
2013 – 2016	UNSW Vice-Chancellor's Postdoctoral Fellowship (310,000 AUD)						
2012 – 2013	Swiss National Science Foundation Grant for Advanced Researchers (76,500 CHF)						
2010–2012	9–2012 Swiss National Science Foundation Grant for Prospective Researchers (67,300 CHF)						
Organisation of	Organisation of conferences/workshops						
9-14/11/2025	Arithmetic Statistics for Algebraic Objects						
	Mathematisches Forschungsinstitut Oberwolfach, Germany						
	(with L. Bary-Soroker and P. Sarnak)						
23 - 27/6/2025	Prime numbers and arithmetic randomness						
	Centre International de Rencontres Mathématiques (CIRM), Luminy, France (with C Elsholtz, J. Rivat, C. Swaenepoel and T. Stoll)						
28/8-2/9/2022	Specialisation and Effectiveness in Number Theory						
	Banff International Research Station (BIRS) Alberta, Canada						
	(with C. Stewart, R. Tichy, J. Wang)						

3-5/6/2020 Number Theory Online Conference 2020

(with F. Breuer, M. Coons and T. Morrill)

https://carma.newcastle.edu.au/meetings/ntoc2020/

30/9–3/10/2019 Number Theory Down Under 7, UNSW Sydney, Australia

(with J. Roberts, I. Shparlinski, L. Zhao)

28/3–2/4/2016 Dynamics and Graphs over Finite Fields: Algebraic, Number Theoretic and Algorithmic

Aspects, CIRM, Luminy, France

(with M.-C. Chang, J. von zur Gathen and F. Pappalardi)

2-6/2/2015 Workshop on Algebraic, Number Theoretic and Graph Theoretic Aspects of

Dynamical Systems, *UNSW Sydney*, Australia (with B. McKay, J. Roberts and I. Shparlinski)

19–23/5/2014 Polynomials over Finite Fields: Functional and Algebraic Properties

Centre de Recerca Matematica, Barcelona, Spain

(with J. von zur Gathen, J. Gutierrez, D. Panario and A. Topuzoglu)

9–13/12/2013 Finite fields and their applications

Johann Radon Inst. for Computational and Applied Math. (RICAM), Linz, Austria

(with H. Niederreiter, D. Panario and I. Shparlinski)

5–10/5/2013 The Art of Iterating Rational Functions over Finite Fields

BIRS, Alberta, Canada

(with N. Boston, I. Shparlinski, M. Zieve)

# Organisation of research seminars

Since 2020 Number Theory Web Seminar

(with M. Bennett and P. Habegger) https://www.ntwebseminar.org/home

https://www.youtube.com/@numbertheorywebseminar

Since 2015 Number Theory Seminar, UNSW, Sydney

# Research in Pairs programs

2015	Mittag-Leffler Institute, Sweden (2 weeks)
	(with O. Ahmadi, D. Gomez-Perez and M. Sha)
2015	Mathematisches Forschungsinstitut Oberwolfach, Germany (2 weeks)
	(with O. Ahmadi, D. Gomez-Perez and M. Sha)
2013	Centre International de Rencontres Mathématiques, Luminy, France (2 weeks)
	(with D. Gomez-Perez)
2013	Mathematisches Forschungsinstitut Oberwolfach, Germany (2 weeks)
	(with D. Gomez-Perez)

#### Editorial boards

2022–ongoing Research in Number Theory (Springer)

## Member of conference scientific committees

2025	AustMS 2025, La Trobe University, Australia
2024	Algorithmic Number Theory Symposium, ANTS XVI, MIT, USA
2024	Mini Symposium of the Roman Number Theory Association (RNTA) 2024, Rome, Italy
2022	Number Theoretical Methods in Cryptology, Poznan
2021	AustMS 2021, University of Newcastle, Australia
2020	Diophantine Problems: Determinism, Randomness, Applications, CIRM, France
2020	Algorithmic Number Theory Symposium, ANTS XIV, University of Auckland, New Zealand
2019	Number Theoretical Methods in Cryptology, Paris
2018	Algorithmic Number Theory Symposium, ANTS XIII, University of Wisconsin, USA
2014	Sequences and their Applications, SETA 2014, University of Melbourne, Australia
2013	The 11th International Conference on Finite Fields and their Applications, Fq11
	Otto-von-Guericke-University Magdeburg, Germany

# Other mathematical memberships

Since 2018	Australian Mathematical Society
Since 2018	Number Theory Down Under

2018 American Mathematical Society (awarded)

## Institutional responsibilities

3/2024—ongoing	Panel Chair for Postgraduate Studies (Pure Mathematics)				
9/2021-9/2023	Secretary of the Australian Mathematical Society Interest Group				
	Number Theory Down Under				
1/2021- $12/2022$	Director of Postgraduate Studies (Admissions & Scholarships), UNSW, Sydney				
1/2021- $12/2022$	Member of the Research Committee, UNSW, Sydney				
1/2021- $12/2022$	Member of the Academic Committee, UNSW, Sydney				
9/2019-8/2021	President of the Australian Mathematical Society Interest Group				
	Number Theory Down Under				
2017 – 2023	Member of the Science Faculty Board, UNSW, Sydney				
2017–ongoing	Postgraduate Review Committee Member, UNSW, Sydney				
2021, 2018,	Lecturer/Sen. Lecturer/Postdoc hiring committees member, UNSW, Sydney				
2017, 2014					

# Student supervision

PhD students:

2022–ongoing Muhammad Afifurrrahman (co-supervised with I. Shparlinski)

Honours students/Summer projects:

2024	Aaron Manning, TBA
	(co-supervised with I. Shparlinski)
2022	Chris Zeng, The Uniform Boundedness Conjecture in arithmetic dynamics
	$(University\ Medal)$
2021	Conrad Martin, Powers in orbits of rational dynamical systems
2019	Alexander Patterson, Polynomial dynamics over number fields: irreducibility of iterates
	and powers in orbits (University Medal)
2018	Marley Young, The arithmetic of semigroup dynamical systems over the cyclotomic
	closure of a number field (University Medal)
2017	Marley Young, On the multiplicative independence of iterates of rational functions
	(Summer project, co-supervisor)
2016	Johann Blanco, Dynamics of monomials and Dickson polynomials over finite fields

# Postdocs

2024–ongoing	Subham Bhakta (co-supervised with I. Shparlinski)
2022 – 2024	Kamil Bulinski (co-supervised with I. Shparlinski)
2022 - 2023	Ali Mohammadi (co-supervised with I. Shparlinski)
2021 – 2022	Ayreena Bakhtawar (co-supervised with J. Roberts)
2019 – 2021	Jorge Mello (co-supervised with J. Roberts and I. Shparlinski)

# Teaching activities

UNSW, Sydney, Australia:

2024	• Lecturer and course authority: MATH3431 (Number Theory)
	o Tutor: MATH1141
2023	o Lecturer: MATH2099 (Linear Algebra)
	• Lecturer and course authority: MATH5645 (Algebraic Number Theory)
	o Tutor: MATH2099
2022	o Lecturer: MATH1141 (Algebra), MATH2099 (Linear Algebra)
	o Tutor: MATH1141, MATH2099
2021	o Lecturer: MATH2099 (Linear Algebra)
	• Lecturer and course authority: MATH5645 (Algebraic Number Theory)
	o Tutor: MATH1131
2020	o Lecturer: MATH1141 (Algebra)
	o Lecturer and course authority: MATH5725 (Galois Theory)
2019	o Lecturer: MATH1141 (Algebra)
	o Lecturer and course authority: MATH5645 (Algebraic Number Theory)
	o Tutor: MATH1141 (Algebra), MATH1151 (Algebra)
2018	o Lecturer: MATH1141 (Algebra), MATH1131 (Calculus)
	• Lecturer and course authority: MATH5725 (Galois Theory)
	o Tutor: MATH1141 (Algebra), MATH1231/1241 (Algebra)
2017	o Lecturer: MATH1141 (Algebra)
	o Lecturer and course authority: MATH5645 (Algebraic Number Theory)
	o Tutor: MATH1141 (Algebra), MATH1231/1241 (Algebra)
2015	o Lecturer (on voluntary basis): MATH5645 (Finite Fields and Applications)

## University of Zürich, Switzerland:

2010	Dagian	and	conducting	a student	cominar	on I	Deguidoran	dom	Sognongos
∠U10	Destan	-ana	conducting	a student	semmar	он і	rseudoran	иош	Sequences

2009 Tutor: Linear Algebra II, Elliptic Curves

2008 Tutor: Linear Algebra I

## Course development

2021–2022 Digital uplift for MATH2099/2501/2601 (Linear Algebra)

### Organiser of outreach and student activities

2019 Girls Do The Maths & Public Lecture by Prof. Kate Smith-Miles, UNSW, Sydney

(co-organiser with A. Liebenau and D. Salopek)

2018 Advanced Mathematics Day, UNSW, Sydney

(co-organiser with S. Waters)

2018 Girls Do The Maths & Public Lecture by Prof. Cheryl Praeger, UNSW, Sydney

(co-organiser with D. Combe and D. Salopek)

#### Other outreach and student activities

2022, 2016 Advanced Mathematics Day, UNSW, Sydney (invited speaker)

## Reviewer for funding agencies

2018-ongoing Australian Research Council (ARC) 2023, 2013 Austrian Science Fund (FWF)

2015 National Security Agency (NSA), USA

### Research visits

2024-2025	Institut des	Hautes	Etudes	Scientifique	s (IHES)	, France (	(6 months)	,

2024, 2020, 2017, Max Planck Institute for Mathematics, Bonn

2016, 2015, 2014 (3 months, 2014; 2 weeks, 2015; 2 weeks, 2016; 1 week 2017;

11 months, 2020; 6 months 2024)

2024 University of Göttingen (1 week)

2024 Mittag-Leffler Institute, Sweden (9 days)

2023 MSRI, Berkeley (2 months)

(Research Member in the program *Diophantine Geometry*)

2022 Tel Aviv University, Israel (1 week)

2022, 2020, 2019 RICAM, Linz, Austria

2010 (2 weeks, 2010;  $2 \times 4$  days, 2019; 1 week, 2020; 2 weeks, 2022)

2019 University of Debrecen, Hungary (4 days) 2018, 2014, 2012, University of Cantabria, Santander, Spain

2011 (2 weeks, 2011; 1 week, 2012; 1 week, 2014; 2 weeks, 2018)

2017 Alfréd Rényi Institute of Mathematics, Budapest, Hungary (4 days)

2017 Australian National University, Canberra, Australia (2 days)

Fields Institute, Toronto, Canada (2 weeks)

(attending the Thematic Program on Unlikely Intersections, Heights,

and Efficient Congruencing)

2016 Scuola Normale Superiore Pisa, Italy (1 week) 2016 Magdeburg University, Germany (1 week)

2015 Technical University (TU) Graz, Austria (1 week)

2013 Bielefeld University, Germany (3 days)

2013 University of Neuchatel, Switzerland (2 weeks) ICERM, Brown University, USA (2 weeks) 2012 2012, 2011

Sabanci University, Istanbul, Turkey (2 weeks, 2011; 1 week, 2012)

2011 Phillips Research, Eindhoven, Netherlands (1 week)

2011 The Erwin Schrödinger Intern. Institute for Mathematical Physics (ESI)

Vienna, Austria (2 weeks)

2011 NTU, Singapore (3 days)

2011 Universidad Autonoma de Madrid, Spain (1 week)

#### Research Talks<sup>1</sup>

November 2024 DIAMANT Symposium, Lunteren, The Netherlands Number Theory Seminar, University of Göttingen October 2024

Colloquium, University of Göttingen October 2024

Oberseminar, Max Planck Institute for Mathematics, Bonn, Germany August 2024

June 2024 Graz-ISTA Number Theory Day, Vienna, Austria

June 2024 Canadian Number Theory Association XVI, Fields Institute, Toronto, Canada

June 2024 Dynamical Days in Montreal, Canada

January 2024 Analytic Number Theory, Mittag-Leffler Institute, Sweden

October 2023 Algebra Seminar, University of Sydney, Australia September 2023 Number Theory Down Under 11, ANU, Australia

June 2023 Specialisation in Number Theory and Algebra, Technion, Israel

April 2023 Degeneracy of Algebraic Points, MSRI, Berkeley

Number Theory Seminar, University of Debrecen, Hungary March 2023

December 2022 Tel Aviv Number Theory Seminar, Israel

September 2022 O-minimality and Diophantine Geometry, Clay Mathematical Institute,

University of Oxford

September 2022 Number Theory Seminar, University of Basel

September 2022 A celebration of analytic number theory, a conference in honor of Andrew Granville,

CRM. Montreal

August 2022 Algorithmic Number Theory Symposium, ANTS-XV, University of Bristol

July 2022 ICM Down Under, 2022, University of Sydney June 2022 Number theory by the sea, TIFR Mumbai (online)

Number Theory Seminar, Oregon State University (online) May 2022

April 2022 Diophantische Approximationen, MFO, Germany

Quebec-Vermont Number Theory Seminar, Canada (online) January 2022 December 2021 AustMS Conference, University of Newcastle, Australia (online) December 2021 Heilbronn Number Theory Seminar, University of Bristol (online)

October 2021 Number Theory Meeting – Torino, Italy (online)

September 2021 Number Theory Down Under 9, University of Sydney, Australia (online)

February 2021 7th International Conference on Uniform Distribution Theory, RICAM, Austria (online) Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany (online) January 2021

December 2020 Tel Aviv Number Theory Seminar (online)

November 2020 Diophantine Problems, Determinism and Randomness, CIRM, Luminy (online) March 2020 Algebra, Geometry and Physics Seminar, Max Planck Institute for Mathematics,

Bonn, Germany

February 2020 Number Theory Seminar, University of Cambridge, UK

February 2020 Oberseminar, Max Planck Institute for Mathematics, Bonn, Germany

Mathematics Colloquium, TU Graz, Austria January 2020 Algebra Seminar, University of Sydney, Australia November 2019

September 2019 Intercity Number Theory Seminar, Radboud University Nijmegen, The Netherlands

July 2019 Number Theory Colloquium, TU Graz, Austria

July 2019 Colloquium Talk, RICAM, Linz, Austria

<sup>&</sup>lt;sup>1</sup>All talks which are not indicated as seminar/colloquium talks were given at conferences/workshops that I attended.

September 2018 March 2018 March 2018 January 2018 December 2017 July 2017 June 2016 December 2016 December 2016 December 2016 December 2016 September 2015 September 2016 September 2016 September 2016 September 2017 September 2016 September 2016 September 2017 September 2017 September 2017 September 2016 September 2017 September 2017 September 2017 September 2018 September 2018 September 2016 September 2017 September 2017 September 2017 September 2017 September 2018 September 2018 September 2019 September 2019 September 2019 September 2019 September 2010 September 2010 September 2011 September 2012 September 2012 September 2012 September 2012 September 2015 September 2017 September 2016 September 2017 September 2017 September 2017 September 2018 September 2018 September 2019 S	July 2019 June 2019 May 2019 March 2019 January 2019 January 2019	Number Theory Seminar, Alfréd Rényi Institute of Mathematics, Budapest, Hungary Dynamics and Number Theory, University of Sydney, Australia Arithmetic of Function Fields and Diophantine Geometry, Taipei, Taiwan Arithmetic Dynamics Session, AMS Joint Sectional Meeting, University of Hawaii, USA Research Seminar, RICAM, Linz, Austria Number Theory Seminar, IST, Austria
January 2018 December 2017 June 2017 June 2017 June 2018 December 2016 December 2016 December 2016 December 2016 December 2016 September 2016 September 2016 September 2016 August 2016 Au	September 2018	Number Theory Down Under, UNSW Canberra, Australia
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December 2016 December 2016 Seminar talk, Magdeburg University, Germany Seminar talk, Magdeburg University, Germany Seminar talk, Seudola Normale Superiore Pisa, Italy Number Theory Down Under, Newcastle, Australia Conference on Elementary and Analytic Number Theory, Strobl, Austria Workshop on Arithmetic Dynamics, University of Basel, Switzerland Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany September 2015 December 2015 December 2015 December 2015 Seminar Talk, University of Saburg, Austria Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany September 2015 June 2015 Interview talk, Hausdorff Center for Mathematics, Bonn, Germany Number Theory Seminar & Colloquium (2 talks), TU Graz, Austria September 2015 June 2015  The First Mini Symposium of the Roman Number Theory: Research inspired by the Mathematics of Carl Pomerance, University of Georgia, Athens, USA The First Mini Symposium of the Roman Number Theory Association, Università Europea di Roma, Rome, Italy Number Theory Seminar, UNSW, Sydney, Australia  November 2014 October 2014 October 2014 Oberseminar, B-IT CoSec, Bonn, Germany June 2014  April 2014 April 2014 April 2014 April 2014 April 2014 Oberseminar, B-IT CoSec, Bonn, Germany Workshop on the Occasion of Harald Niederreiter's 70th Birthday: Applications of Algebra and Number Theory, Linz, Austria  April 2014 April 2015 Apr	June 2017	Algebra Seminar, University of Sydney, Australia
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September 2016 September 2016 Conference on Elementary and Analytic Number Theory, Strobl, Austria August 2016 August 2016 August 2016 April 2016 December 2015 December 2015 December 2015 Seminar Talk, University of Salzburg, Austria Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany Number Theory Seminar & Colloquium (2 talks), TU Graz, Austria Cryptography and Coding Theory Seminar, University of Neuchatel, Switzerland September 2015 June 2016 April 2017 April 2017 April 2017 April 2017 April 2014 July 2014 Seminar June 2014 July 2014 July 2014 Seminar June 2014 July 2014 April 2014 Cotober 2013 Cotober 2013 September 2012 Third Workshop on the Occasion of Haradi Niederreiter's 70th Birthday: Applications of Algebra and Number Theory, Linz, Austria Joint Colloquim, UnSW, Sydney, Australia October 2013 September 2012 Third Workshop on Mathematical Cryptology, CIEM-Castro Urdiales, Spain Joint Colloquim, University of Neuchatel, Switzerland Workshop on Permutation Polynomials over Finite Fields and their Applications, Sabanci University, Istanbul, Turkey October 2011  Research Seminar, The Frewin Schrödinger Intern. Institute for Mathematical Physics (ESI), Vienna, Austria  July 2011 The 10th International Conference on Finite Fields and their Applications, Sabanci University, Istanbul, Turkey October 2011 The 10th International Conference on Finite Fields and their Applications, Sabanci University, Istanbul, Turkey		
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		Mathematical Physics (ESI), Vienna, Austria
Ghent, Belgium	July 2011	
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April 2011 Research Seminar on Coding Theory and Cryptography, NTU, Singapore April 2011 Research Seminar of the Department of Mathematics, University of Cantabria, Spain

March 2011 Arithmetic, Geometry, Cryptography and Coding Theory, AGCT-XIII,

CIRM, Luminy, France

December 2010 Workshop on Dynamical Systems and Number Theory,

Macquarie University, Sydney

July 2010 International Conference on Uniform Distribution Theory, UDT-2010,

Strobl, Austria

WAIFI 2010, Istanbul June 2010

January 2010 Number Theory Colloquium, TU Graz

December 2009 Coding Theory and Cryptography Seminar, University of Basel

November 2007 Commutative Algebra Seminar, University of Zürich

# Other conferences and workshops attended (since 2010)<sup>2</sup>

October 2020 Number Theory Down Under, University of Melbourne (online) July 2020 Algorithmic Number Theory Symposium (ANTS XIV), University of Auckland (online) April 2020 Diophantische Approximationen, MFO, Germany (cancelled due to COVID-19) September 2019 Topics in Rational and Integral Points, Basel, Switzerland March 2019 Hawaii Number Theory 2019 (HINT), Honolulu, USA July 2017 Where Geometry meets Number Theory, Gothenburg, Sweden July 2017 Specialization problems in Diophantine Geometry, Cetraro, Italy February 2017 Workshop on Heights and Applications to Unlikely Intersections Fields Institute, Toronto, Canada September 2015 Workshop Analytic Number Theory and Diophantine Geometry, Leibniz University, Hannover July 2014 Pseudorandomness in Number Theory, CIRM, Luminy Dynamics and Numbers, Max Planck Institute for Mathematics, Bonn Prime Numbers: New Perspectives, CIRM, Luminy

July 2014 February 2014

July 2013 The 11th International Conference on Finite Fields and their Applications,

Otto-von-Guericke-University Magdeburg

July 2012 Third International Conference on Symbolic Computation and Cryptography,

CIEM-Castro Urdiales, Spain

March 2012 ICERM Semester Program on Complex and Arithmetic Dynamics

ICERM, Brown University, USA

October 2011 Dynamics and Number Theory, ESI, Vienna, Austria May 2010 Public Key Cryptography and the Geometry of Numbers,

Amsterdam, Netherlands

**April** 2010 Computer Security and Cryptography, CRM, University of Montreal, Canada

January 2010 Workshop on Dynamical Systems and Uniform Distribution,

TU Graz, Austria

# **Publications**

#### **Edited Books**

H. Niederreiter, A. Ostafe, D. Panario and A. Winterhof (Eds.), Algebraic Curves and Finite Fields, Radon Series on Computational and Applied Mathematics 16, De Gruyter, 2014.

<sup>&</sup>lt;sup>2</sup>The list excludes the workshops/conferences that I co-organised and the ones listed under the "Research Talks" section.

### **Preprints**

- 1. M. Afifurrahman, V. Kuperberg, A. Ostafe and I. Shparlinski, "Statistics of ranks, determinants and characteristic polynomials of rational matrices", *Preprint* (arXiv: 2401.10086).
- 2. A. Ostafe and I. Shparlinski, "On the sparsity of integer matrices with a given discriminant", *Preprint* (arXiv: 2312.12626).
- 3. A. Mohammadi, A. Ostafe and I. Shparlinski, "On some matrix counting problems", *Preprint* (arXiv: 2310.05038).
- 4. P. Habegger, A. Ostafe and I. Shparlinski, "Integer matrices with a given characteristic polynomial and multiplicative dependence of matrices", *Preprint* (arXiv: 2203.03880).

#### Refereed Journal Articles

- 5. A. Bérczes, Y. Bugeaud, K. Győry, J. Mello, A. Ostafe and M. Sha, "Multiplicative dependence of rational values modulo approximate finitely generated groups", *Math. Proc. Cambr. Phil. Soc.*, in press (arXiv: 2107.05371).
- 6. A. Bérczes, Y. Bugeaud, K. Győry, J. Mello, A. Ostafe and M. Sha, "Explicit bounds for the solutions of superelliptic equations over number fields", Forum Math., in press (arXiv: 2310.09704).
- 7. A. Ferraguti, A. Ostafe and U. Zannier, "Cyclotomic and abelian points in backward orbits of rational functions", Adv. Math., in press (arXiv: 2203.10034).
- 8. K. Bulinski, A. Ostafe and I. Shparlinski, "Counting embeddings of free groups into  $SL_2(\mathbb{Z})$  and its subgroups", *Annali della Scuola Normale Superiore di Pisa*, Classe di Scienze, in press (arXiv: 2304.10980).
- 9. A. Ostafe, I. Shparlinski and F. Voloch, "Weil sums over small subgroups", *Math. Proc. Camb. Phil. Soc.*, **176** (2024), 39–53.
- 10. A. Ostafe, I. Shparlinski and F. Voloch, "Equations and character sums with matrix powers, Kloosterman sums over small subgroups and quantum ergodicity", *Int. Math. Res. Not.*, (2023), v. 16, 14196–14238.
- 11. A. Ostafe, "On a problem of Lang for matrix polynomials", Bull. London Math. Soc. (2022), v. 54, 1552-1567. [Erratum: https://web.maths.unsw.edu.au/~alinaostafe/LangMatr-Erratum.pdf]
- 12. R. Dietmann, A. Ostafe and I. Shparlinski, "Discriminants of fields generated by polynomials of given height", *Israel J. Math.*, in press (arXiv: 1909.00135).
- 13. D. Ghioca, A. Ostafe, S. Saleh and I. E. Shparlinski, "On sparsity of representations of polynomials as linear combinations of exponential functions", *J. London Math. Soc.* (2022), v. 105, 2076–2103.
- F. Barroero, L. Capuano, L. Mérai, A. Ostafe and M. Sha, "Multiplicative and linear dependence in finite fields and on elliptic curves modulo primes", *Int. Math. Res. Not.* (2022), v. 20, 16094–16137.
- 15. A. Ostafe and I. Shparlinski, "On the Skolem problem and some related questions for parametric families of linear recurrence sequences", Canadian J. Math. (2022), v. 74, 773–792.
- 16. A. Ostafe, L. Pottmeyer and I. Shparlinski, "Perfect powers in value sets and orbits of polynomials", New York J. Math. (2021), v. 27, 903–917.
- 17. D. Ghioca, A. Ostafe, S. Saleh and I. E. Shparlinski, "A sparsity result for the Dynamical Mordell-Lang Conjecture in positive characteristic", *Bull. Aust. Math. Soc.* (2021), v. 104, 381–390.

- 18. L. Mérai, A. Ostafe and I. Shparlinski, "Dynamical irreducibility of polynomials in reduction modulo primes", *Mathematische Zeitschrift* (2021), v. 298, 1187–1199.
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