KONSTANTINOS MARONIKOLAKIS

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EDUCATION

University College Dublin   *2020 - present*
PhD in Mathematics and Statistics
Thesis Title: Universality and Boundary Behaviour of Holomorphic Functions
Supervisor: Dr Myrto Manolaki

National and Kapodistrian University of Athens   *2015 - 2019*
BSc in Mathematics
Grade 8.93/10 (Excellent)

RESEARCH INTERESTS

My research interests lie mostly in complex analysis. More specifically, I have studied the generic behaviour of holomorphic functions with respect to their partial sums and boundary properties. I am also interested in functional analysis and potential theory.

GRANTS AND ACADEMIC DISTINCTIONS

4 Irish Research Council Ulysses Award 2022 (with Stéphane Charpentier and Myrto Manolaki): The aim of the Ulysses scheme is to foster new collaborations between Ireland and France-based researchers by providing seed funding for reciprocal travel visits

3 Kovalevskaya travel grant to participate at the International Congress of Mathematicians 2022 (eventually held virtually)

2 Invitation to attend the RIA Hamilton Masterclass with Professor Terence Tao, Royal Irish Academy, Ireland (held virtually), October 2020

1 Irish Research Council Government of Ireland Postgraduate Scholarship: Funding for doctoral studies in Ireland, 2020 - 2024

RESEARCH ARTICLES

7 S. Charpentier, M. Manolaki, and K. Maronikolakis. Invariance of Abel universality under composition and applications. *Preprint*, 2023

6 S. Charpentier, M. Manolaki, and K. Maronikolakis. Abel universal functions: Boundary behaviour and Taylor polynomials. *Submitted, arXiv:2310.05611*, 2023

5 K. Maronikolakis. Universal radial approximation in spaces of analytic functions. *J. Math. Anal. Appl.*, 512(1):126102, 2022

4 G. Gavrilopoulos, K. Maronikolakis, and V. Nestoridis. Universal Taylor series in several variables depending on parameters. *Comput. Methods Funct. Theory*, 22(2):261–275, 2022

3 K. Maronikolakis and G. Stamatiou. Universal power series of Seleznev with parameters in several variables. *Monatsh. Math.*, 195(3):477–488, 2021

2 M. Manolaki, K. Maronikolakis, and V. Nestoridis. One-sided extendability of bounded functions. *Complex Anal. Synerg.*, 7(15), 2021

1 K. Maronikolakis and V. Nestoridis. An extension of the universal power series of Seleznev. *Results Math*, 75(151), 2020

CONFERENCE/SEMINAR TALKS

7 Universality, Zeta-Functions, and Chaotic Operators Workshop, Centre International de Rencontres Mathématiques, France, August 2023 (invited speaker)

6 Advanced Courses in Operator Theory and Complex Analysis, Aristotle University of Thessaloniki, Greece, June 2023

5 Key Lemmas in Analysis and Dynamics, University College Dublin, Ireland, January 2023 (invited speaker)

4 Journée d'Analyse Harmonique, Aix - Marseille University, France, December 2022 (invited speaker)

3 One Day Function Theory Meeting, De Morgan House, UK, September 2022 (invited speaker)

2 Computational Methods and Function Theory, Federico Santa María Technical University, Chile (held virtually), January 2022 (invited speaker)

1 ComPlane: the next generation (held virtually), June 2021 (invited speaker)

Departmental talks:

4 Mathematics and Statistics Postgraduate Workshop, University College Dublin, Ireland, May 2022

3 Analysis seminar, University College Dublin, Ireland, April 2022, April 2023, October 2023 and November 2024 (four times)

2 Postgraduate Seminar Series, University College Dublin, Ireland (held virtually), April 2021

1 Complex and Harmonic Analysis Seminar, National and Kapodistrian University of Athens, Greece, May 2019

CONFERENCE/SEMINAR PARTICIPATION

12 One Day Function Theory Meeting, De Morgan House, UK, September 2023

11 34th International Workshop on Operator Theory and is Applications, University of Helsinki, Finland, July 2023

10 Topics in Complex Dynamics, Institute of Mathematics at the Universitat de Barcelona, Spain, June 2023

9 Second Congress of Greek Mathematicians, National Technical University of Athens, Greece, July 2022

8 Workshop in memory of Dimitris Gatzouras, National and Kapodistrian University of Athens, Greece, March 2022

7 Transcendental dynamics and beyond: Topics in Complex Dynamics, Centre de Recerca Matematica (held virtually), April 2021

6 AMS/MAA Joint Mathematics Meetings, Washington, D.C., USA (held virtually), January 2021

5 LMS lectures on Holomorphic Dynamics, London Mathematical Society, UK (held virtually), October - December 2020

4 AMS Fall Southeastern Sectional Meeting, University of Tennessee at Chattanooga, USA (held virtually), October 2020

3 Analysis seminar, University College Dublin, Ireland, 2020 - present

2 Complex Analysis videoseminars, University College London, UK (held virtually), 2020 - present

1 Seventh Summer School in Operator Theory, National and Kapodistrian University of Athens, Greece, July 2018

CONFERENCE/SEMINAR ORGANIZING

1 Mathematics and Statistics Postgraduate Workshop, University College Dublin, Ireland, May 2023

TEACHING

Tutor at University College Dublin:

9 Group Theory and Applications (MST30010), Fall 2023

8 Metric Spaces (MATH30090), Fall 2023

7 Linear Algebra for Engineers (MATH10260), Spring 2023

6 Group Theory and Applications (MST30010), Fall 2022

5 Metric Spaces (MATH30090), Fall 2022

4 Linear Algebra for Engineers (MATH10260), Spring 2022

3 Group Theory and Applications (MST30010), Fall 2021

2 Metric Spaces (MATH30090), Fall 2021

1 Linear Algebra in the Mathematical and Physical Sciences (MATH10340), Spring 2021

Tutor for Junior Mathematical Enrichment (advanced mathematics classes for secondary school students), University College Dublin, Ireland, Fall 2022 and Fall 2023

REFEREE WORK

I have refereed for the journal Complex Analysis and Operator Theory

MISCELLANEOUS

1 Outreach Activity as part of Maths Week 2022, University College Dublin, Ireland, October 2022