

Research positions

- 05/2023–present **Postdoctoral researcher**, *Institut für Mathematik, Universität Paderborn, member of the Collaborative Research Centre (CRC TRR) 358 “Integral structures in geometry and representation theory”*, Advisor: [M. Rösler](#).
- 10/2023–12/2023 **Visiting researcher**, *Tufts University, Fulbright Greece 2023-24*, Advisor: [K. Okoudjou](#).
- 10/2020–03/2023 **Postdoctoral researcher**, *University of Crete, Department of Mathematics and Applied Mathematics*, Advisor: [M.N. Kolountzakis](#).
- 10/2020–12/2020 **Visiting researcher**, *University of Orléans, Institut Denis Poisson*, Scholarship program [SSHN](#) 2020, Advisor: [J.-Ph. Anker](#).

Education

- 07/2020 **PhD**, *Aristotle University of Thessaloniki, Greece*, Thesis title: “Harmonic Analysis on locally symmetric spaces, Damek-Ricci spaces and homogeneous trees ([Link](#))”, Supervisors: [M. Marias](#)[†], [A. Fotiadis](#).
- MSc**, *Aristotle University of Thessaloniki, Greece*, Postgraduate program on Pure Mathematics.
- BSc**, *Aristotle University of Thessaloniki, Greece*, Department of Mathematics.

Research interests

Harmonic analysis on Euclidean spaces, Harmonic analysis on manifolds, Symmetric and locally symmetric spaces, Harmonic NA spaces, Graphs/ homogeneous trees, Heat kernel, Multipliers, Harmonic maps.

Publications and Preprints

- (18) [van Velthoven J.T.](#) and Papageorgiou E., Counting function estimates for coherent frames and Riesz sequences, *Preprint* (2024). [Arxiv: 2407.13540](#).
- (17) Papageorgiou E., Surjectivity of convolution operators on harmonic NA groups, *Preprint* (2024). Under minor revision at *J. Geom. Anal.*
- (16) [Bruno T.](#) and Papageorgiou E., Pointwise convergence to initial data for some evolution equations on symmetric spaces, *Preprint* (2023). [Arxiv: 2307.09281](#).
- (15) Papageorgiou E., Asymptotic behavior of solutions to the extension problem for the fractional Laplacian on noncompact symmetric spaces, *J. Evol. Equ.* **24**, 34 (2024). [Online version](#).
- (14) Papageorgiou E., Large-time behavior of two families of operators related to the fractional Laplacian on certain Riemannian manifolds, *Potential Anal.* (2023). [Online version](#).
- (13) Papageorgiou E., Asymptotics for the infinite Brownian loop on noncompact symmetric spaces, *J. Elliptic Parabol. Equ.* (2023). [Online version](#).
- (12) [Kolountzakis M.N.](#) and Papageorgiou E., Large sets containing no copies of a given infinite sequence, *Anal. PDE.* (2023). To appear. [Arxiv: 2208.02637](#).
- (11) [Grigor'yan A.](#), Papageorgiou E. and [Zhang H.-W.](#), Asymptotic behavior of the heat semigroup on certain Riemannian manifolds, “*From Classical Analysis to Analysis on Fractals - The Robert Strichartz Memorial Volume*”, Springer (2023). [Online version](#).
- (10) [Daskaloyannis C.](#), [Fotiadis A.](#), Papageorgiou E. and Polychrou G., New examples of harmonic maps to the hyperbolic plane via Bäcklund transformation, *Rev. Mat. Complut.* (2023). [Online version](#).

- (09) [Anker J.-Ph.](#), Papageorgiou E. and [Zhang H.-W.](#), Asymptotic behavior of solutions to the heat equation on noncompact symmetric spaces, *J. Funct. Anal.* **284**, (2023). [Online version](#).
- (08) Diederichs B., [Kolountzakis M.N.](#) and Papageorgiou E., How many Fourier coefficients are needed, *Monatsh. Math.* (2022). [Online version](#).
- (07) [Kolountzakis M.N.](#) and Papageorgiou E., Functions tiling with several lattices, *J. Fourier Anal. Appl.* **28**, 68 (2022). [Online version](#).
- (06) Papageorgiou E., Riesz means on locally symmetric spaces, *Complex Anal. Oper. Theory* **16**, 43 (2022). [Online version](#).
- (05) Papageorgiou E., Oscillating multipliers on symmetric and locally symmetric spaces, *Canad. J. Math.* **74**, 3 (2022). [Online version](#).
- (04) Papageorgiou E., Riesz means on homogeneous trees, *Concr. Oper.*, **8** (2021), no.1. [Online version](#).
- (03) [Fotiadis A.](#) and Papageorgiou E., Riesz means on symmetric spaces, *J. Math. Anal. Appl.*, **499** (2021), no.1. [Online version](#).
- (02) Papageorgiou E., Oscillating multipliers on rank one locally symmetric spaces, *J. Math. Anal. Appl.*, **494** (2021), no.1. [Online version](#).
- (01) [Fotiadis A.](#) and Papageorgiou E., Littlewood-Paley-Stein operators on Damek-Ricci spaces, *Math. Nachr.*, **293** (2020), no.12. [Online version](#).

Talks

- (29) [Oberseminar Geometric Analysis](#), Bielefeld University, Germany, 8 July 2024.
- (28) [Workshop Geometry, Analysis and Representations](#), Thessaloniki, Greece, 12-14 June 2024.*
- (27) [III Young Researchers Workshop in Harmonic Analysis](#), University of Genova, Italy, 10-12 January 2024.*
- (26) [CUNY Graduate Center Harmonic Analysis & PDE Seminar](#), CUNY, USA, 15 December 2023.
- (25) [Workshop on harmonic analysis, fractals and tilings](#), San Francisco State University, USA, 9-10 November 2023.*
- (24) [Analysis and Probability Seminar](#), University of Connecticut, USA, 13 October 2023.
- (23) [Analysis Seminar](#), Tufts University, Boston, USA, 5 October 2023.
- (22) Oberseminar Topology/Geometry, Universität Göttingen, Germany, 11 July 2023.
- (21) [Processes and heat kernels with symmetries](#), Angers, France, 26-30 June 2023.*
- (20) [Analysis Seminar](#), Thessaloniki, Greece, 11 May 2023.
- (19) Harmonic Analysis Seminar, Genova, Italy, 1 February 2023.
- (18) [Complex Analysis Lab Seminar](#), Bologna, Italy, 27 January 2023.
- (17) [Analysis Seminar](#), Thessaloniki, Greece, 23 November 2022.
- (16) [15th Panhellenic Geometry Conference](#), Ioannina, Greece, 29 September-1 October 2022.*
- (15) [First Workshop of Greek Women in Mathematics](#), Athens, Greece, 11-12 July 2022.*
- (14) [SCGM-2022](#), Athens, Greece, 4-9 July 2022.*
- (13) [Workshop: Noncommutative Harmonic Analysis and Representation Theory](#), Thessaloniki, Greece, 16 June 2022.*
- (12) [Spectra and Dynamics on \(Locally\) Symmetric Spaces](#), Paderborn University, Germany, 14-18 February 2022.*
- (11) [Modern Analysis Related to Root Systems with Applications](#), CIRM, Luminy, France, 18-22 October 2021.*
- (10) [Colloquia 2021/22](#), Department of Mathematics and Statistics, Maynooth University, Ireland, 29 September 2021.
- (09) [Afternoon Representation Theory ART 3](#), University of Lorraine, France, 15 June 2021.*
- (08) [Young Geometers Meeting](#), University of Copenhagen, Denmark, 19-23 April 2021.
- (07) [Ghent Methusalem Junior Seminar](#), Ghent, Belgium, 9 March 2021.

- (06) [Thessaloniki Analysis Seminar](#), Thessaloniki, Greece, 2 March 2021.
- (05) [Orléans seminar](#), Institut Denis Poisson, Orléans, France, 19 November 2020.
- (04) [Analysis Summer Meeting](#), Thessaloniki, Greece, 27 June 2019.
- (03) [Contemporary Aspects of Analysis II](#), Protaras, Cyprus, 6-10 May 2019.
- (02) 2nd Conference for Young Researchers in Mathematics, Ioannina, Greece, 1-2 June 2018.
- (01) [Analysis Winter Meeting](#), Thessaloniki, Greece, 22 December 2016.

* Invited talks at Workshops/Conferences.

Various schools attended. Special mention: [Hausdorff School: "Maximal Operators and Applications"](#), Hausdorff School for Advanced Studies in Mathematics, Bonn, July 2024. Accepted after selection.

Fellowships/Third-Party Funding

2024	CaLISTA COST Action CA21109, 4th Call for STSMsm , travel grant.	1000 EUR
2023	Fulbright Scholarship for Greek citizens , Visiting Scholar Program, 2023-24.	11100 USD
2023	Postdoctoral position in Centre Henri Lebesgue (awarded but not undertaken).	
2020	Programme de bourses pour séjour scientifique de haut niveau (SSHN).	3400 EUR

Short scientific stays

- 07/2024 Bielefeld University, Germany (Host: A. Grigor'yan).
- 02/2023 University of Genova, Italy (Host: T. Bruno).
- 01/2023 University of Bologna, Italy (Host: N. Arcozzi).

Administration/Organization/Service

- 09/2024 Member of local organizing committee, [60th Sophus Lie Seminar](#), Universität Paderborn.
- SS 2024 Member of hiring committee (Berufungskommission) for a permanent W2 position in Analysis and Geometry, Universität Paderborn.
- 2019 Technical editing of [90 years School of Mathematics](#), Conference proceedings.

Referee for *Math. Annalen*, *Complex Anal. Oper. Th.*, *Proc. Edinb. Math. Soc.*

Teaching

- SS 2024 Lecturer, [Harmonic Analysis](#), Master's course, Universität Paderborn, Institut für Mathematik: [description](#).
- WS 2017 Teaching Assistant, Calculus III, Undergraduate course, Aristotle University of Thessaloniki.

Languages

- Greek **Mother tongue**
- English **Proficient**
- French **Upper Intermediate**
- German **Elementary**