Michail Louvaris — Curriculum Vitae

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Phd student in Probability Theory
University of Athens (UoA), Greece

Research Interests

Probability Theory, Mathematical Analysis

Education

National and Kapodistrian University of Athens, Greece   **07/2020-present**
PhD in Probability Theory: "Topics in Random Matrix Theory",
Supervisor: Professor Dimitris Cheliotis

National and Kapodistrian University of Athens, Greece   **2018-2021**
MSc in Pure Mathematics, grade: excellent,
Supervisor: Professor Dimitris Gatzouras (UoA)

- Master's Thesis entitled "Random Quantum States and Random Matrix Theory Techniques in Quantum Information Theory"
  Link: https://pergamos.lib.uoa.gr/uoa/dl/frontend/el/browse/2942912
- Notable grades in the following courses
  - - 10/10 : Analysis 2 (Functional Analysis), Set-Theoretic Topology, Graph Theory, Algebraic Number Theory
  - - 9/10 : Analysis 1 (Measure Theory)
  - - 8/10 : Probability Theory, Ergodic Theory, Algebra 1 (Group Theory)

National and Kapodistrian University of Athens, Greece   **2013-2018**
BSc in Mathematics, Orientation: Pure Mathematics

Publications

- "Universality of the least singular value and singular vector delocalization for Levy non-symmetric matrices" Preprint in arxiv.org. Link https://arxiv.org/abs/2204.06399
  Submitted and accepted with major revision request in Annales de l'Institut Henri Poincaré Probabilités et Statistiques
- On the largest eigenvalue of Wigner-type matrices with general variance profile (in preparation)
- Asymptotic normality of the bulk eigenvectors of Sample Covariance Matrices and Bipartite Graphs (in preparation)

Teaching experience

- 2020-2021: Exercises for the undergraduate course : Calculus I
- 2020-2021: Exercises for the undergraduate course : Calculus II
- 2020-2021: Exercises for the undergraduate course : Calculus III (Multivariate Calculus)

Conferences and Seminars attended

- 2022: 17th Panhellenic Analysis Conference, University of Nicosia, Cyprus.
  Contributed talk entitled "Universality of the least singular value for Levy random matrices".
- 2022: Randnet Workshop, Eindhoven University of Technology, Netherlands.
- 2022: Second Congress of Greek Mathematicians (NTUA)
- 2022: Mathematics of Large Networks, Erdős Center, Budapest.
- 2022: Séminaire Matrices et graphes aléatoires (online)
- 2021-present: One World Probability Seminar (online)
- 2020: Extremal and Probabilistic Combinatorics Seminar (online)
- 2020: Princeton Analysis Seminar (online)
- 2019: Presentation day in the framework of Graph Theory graduate course:
  Presentation title: Several Probabilistic Proofs by Erdős
- 2019: Presentation day in the framework of Set Theoretic Topology graduate course
  Presentation title: Connectedness and Applications
- 2019: Presentation day in the framework of Functional Analysis graduate course
  Presentation title: Hoeffding and Azuma-Hoeffding Inequalities
- 2018: Attended Functional Analysis and Opperator Algebras (UoA)
- 2018: 8th Summer school of Operators (UoA)
- 2018: 7th Probability Colluquium (UoA)
- 2018: First Congress of Greek Mathematicians (UoA)

Programming skills

- LaTeX, R
- Certificate in Python: Data Science with Python (UoA)

Languages

- Greek: Native
- English: Fluent (Level C2: University of Michigan)
- French: Intermediate (Level B2 DELF)

Distinctions

- 2010 : 6th place in the National contest of mathematics among the Greek-French schools
- 2013 : 19.2/20 score in Mathematics in school National Exams (in the highest 0.5%)
- 2013 : 19.5/20 score in Mathematical Statistics in school National Exams (in the highest 1%)