Dr. Nikolaos (Nick) Poulios

| CONTACT INFORMATION | Montanuniversität Leoben
Department of Economics and Business Administration
PO Box: Franz Josef Straße 18
Office: Peter Tunner Straße 25-27, Room 335
A-8700 Leoben, Styria, Austria | *Work:* +43 384 2402 6018
Phone: +43 (0) 670 650 7050
E-mail: nikolaos.poulios@unileoben.ac.at
E-mail: npoulios@econ.uoa.gr
Website: http://users.uoa.gr/~npoulios/
ORCID: 0000-0003-2583-1153 |

RESEARCH INTERESTS

Dynamical Systems, ODEs, PDEs, Complex Systems, Graph Theory, Statistical Learning Theory, Machine Learning, Mathematical Data Science, Random Matrix Theory, Optimization, Computational Algebra, Topological Data Analysis.

CURRENT ACADEMIC APPOINTMENTS

Habilitation, Montanuniversität Leoben   November 2022 to November 2026

PostDoc, National and Kapodistrian University of Athens   January 2023 to January 2026
- Supervisor: Prof. Ioannis Leventides
- Laboratory of Analytics and Data Science, National and Kapodistrian University of Athens

EDUCATION

National and Kapodistrian University of Athens (NKUA), Greece

Ph.D. in Economics, Department of Economics, (with Distinction)   February 2022
- Thesis Topic: *On the Stability of Random Matrices*
- Adviser: Prof. Ioannis Leventides
- Areas of Study: Dynamical Systems, Dynamical Networks, Randomness, Almost Zeros Polynomials

M.S.c in, Algorithms, Logic And Discrete Mathematics   December 2023
- Inter-Institutional Graduate Programm
  - Department of Mathematics (NKUA)
  - Department of Informatics and Telecommunications (NKUA)
  - School of Electrical and Computer Engineering (NTUA)

National Technical University of Athens (NTUA), Greece

M.S.c in Applied Mathematical Sciences, School of Applied Mathematical and Physics Science,   November 2016
- Thesis Topic: *Multidimensional Scaling in Multivariable Statistical Analysis*
- Adviser: Professor George Kokolakis
- Area of Study: Multivariate Statistics, Probability Theory

National and Kapodistrian University of Athens, Greece

B.S.c in Economic Sciences, Department of Economics,   July 2010
- Focus in Mathematics, Informatics and Finance

AWARDS
- Schollarships from SAAS-Maxwell Institute for Mathematical Sciences & Herriot-Watt University (I didn't accepted),   2011
- €200,00 Award and Prize from Samarinaion Comunity due to Bachelor graduation,   2011
- Excellence and Progress Prize, on 3rd year at High School, (Grade: Excellent 18.2/20), 2000

REFEREED JOURNAL PUBLICATIONS	
	[1] J. LEVENTIDES, N. KARCANIAS, AND N. C. POULIOS, *The notion of almost zeros and randomness*, IMA Journal of Mathematical Control and Information, (2021).
	[2] J. LEVENTIDES AND N. POULIOS, *Diffusion on Dynamical Interbank Loan Networks*, pringer International Publishing, Cham, 2020, pp. 339–367.
	[3] J. LEVENTIDES, N. POULIOS, AND C. POULIOS, *Random matrices and controllability of dynamical systems*, IMA Journal of Mathematical Control and Information, (2021).
	[4] E. MELAS, C. POULIOS, E. CAMOUZIS, J. LEVENTIDES, AND N. POULIOS, *Study of the hypergeometric equation via data driven koopman-edmd theory*, Axioms, 12 (2023).

CONFERENCE TALKS

[1] 7th Bremen Summer School and Symposium, Dynamical systems - pure and applied, Department of Mathematics, University of Bremen, Bremen, Germany, August 5-9, 2019

[2] Diffusion on Dynamical interbank loan networks, 26th Summer School - Conference "Dynamical System and Complexity", NTUA, Athens, Greece, July 07-14, 2019

GRADUATE ADVISING

[1] Mr. Otto Bruger, Montanuniversität Leoben, Austria, 2023

[2] Mr. Elwasiff, Montanuniversität Leoben, Austria, 2023

CONFERENCE POSTERS

[1] 7th Bremen Summer School and Symposium, Dynamical systems - pure and applied, Department of Mathematics, University of Bremen, Bremen, Germany, August 5-9, 2019

[2] Diffusion on Dynamical interbank loan networks, 26th Summer School - Conference "Dynamical System and Complexity", NTUA, Athens, Greece, 07-14.07.2019

TEACHING EXPERIENCE

Montanuniversität Leoben, Leoben, Styria, Austria

Head Instructor, Department of Economics and Business Management

• An introduction to Data Analytics	**Spring 2022-23**

Instructor, Department of Economics and Business Management

• An Introduction to Entrepreneurship	**Fall 2022-23**

National and Kapodistrian University of Athens, Athens, Greece

Teaching Assistant, Department of Economics (NKUA)

• Dynamical Mathematics (Lab), Evaluation (EN)	**Fall 2020-21**
• Mathematics II, Evaluation (GR)	**Spring 2019-20**
• Dynamical Mathematics (Lab)	**Fall 2019-20**
• Introduction to Mathmematics	**Fall 2019-20**

Private Teaching,	**2013-21**

PROFESSIONAL MEMBERSHIPS	• American Mathematical Society (AMS), Member • European Mathematical Society (EMS), Member • Society for Industrial and Applied Mathematics (SIAM), Member • London Mathematical Society, Member (LMA), Member • Institute of Mathematics and its Applications (IMA), Member • Hellenic Mathematical Society, Member • Economic Chamber of Greece, Member

CERTIFICATION	• Applications developing with Relational Database Management System (RDBMS), Hellenic Republic, Ministry of Interior Man agement Reconstruction, Athens, Certification Code: 11.10.132.1091 **2018** • Distance learning with Python 3, Hellenic Republic, Ministry of Interior & Management Reconstruction, Athens, Certification Code: 11.10.408.210 **2018** • Statistics inference with statistical software, Hellenic Republic, Ministry of Interior & Management Reconstruction, Athens, Certification Code: 11.10.113.412 **2017** • An introduction to Front-end-web development, Tech Talent School HTML5/CSS3 for beginners **2017** • European Stability Mechanism, Fiscal Deficit & Public Debt, Hellenic Republic, Ministry of Interior & Management Reconstruction, Athens, Certification Code: 11.10.284.287 **2016**

CONFERENCES - WORKSHOPS	**International** • The Oxford Summer School in Economic Networks, Mathematical Institute, Oxford University, U.K. **22-26.06.2019** • 7th Bremen Summer School and Symposium, Department of Mathematics, Bremen University, Bremen, Germany **05-09.08.2019** **Greece** • Eighth Summer School in Operator Theory, NKUA, Athens, Greece **08-13.07.2019** • Dynamical Systems and Complexity, NTUA, Athens, Greece **14-20.07.2019** • Summer Meeting of Young Researchers in Mathematics, NKUA, Athens, Greece **16-17.07.2019** • 2nd Summer School in Mathematics: Numerical Analysis for Deterministics Stochastics Differential Equations, School of Applied Mathematical and Physical Sciences, NTUA, Athens, Greece **10-13.07.2018** • Athens Probability Qolloquium, Department of Mathematics, NKUA, Athens, Greece **2018** • Summer School in Operator Theory, Department of Mathematics, University of Aegean, Chios, Greece **25-30.07.11**

HARDWARE AND SOFTWARE SKILLS	Computer Programming: • C, Python, Lisp, Haskell, Prolog, Visual Basic, SQL Numerical Analysis & Statistics: • MATLAB, Wolfram Mathematica, Maxima, R Desktop Editing and Productivity Software: • Emacs, Vim, Sublime Text • TeX (LaTeX, BibTeX), • Microsoft Office, OpenOffice.org, LibreOffice, Google Docs Operating Systems: • Microsoft Windows family, Apple OS X, Linux

REFERENCES AVAILABLE TO CONTACT	**John. Leventides** (e-mail: ylevent@econ.uoa.gr; phone: +30-210-368-9412)
	• Professor, Department of Economics, National and Kapodistrian University of Athens
	◇ Dept of Economics, 1, Sofokleous & Aristidou str., office 611, PO 10559, Athens, Greece
	⋆ *Prof. Leventides was not only PhD thesis supervisor but also is my current postdoctoral supervisor, as well.*
	Themistocles M. Rassias (e-mail: trassias@math.ntua.gr)
	• Professor, Department of Mathematics, National Technical University of Athens
	◇ Department of Mathematics, National Technical University of Athens (NTUA), PO: 157 80, Zografou Campous, Athens, Greece
	⋆ *Prof. Rassias was a Professor in my postgraduate studies at the NTUA.*
	Michael (Michail) Th. Rassias (e-mail: mthrassias@yahoo.com)
	• Associate Professor, Department of Mathematics and Engineering, Hellenic Military Army
	◇ Department of Mathematics and Engineering Sciences, Hellenic Military Academy, PO: 16673, Vari Attikis, Greece
	⋆ *Ass. Prof. Rassias was a supervisor member of my PhD thesis.*
LANGUAGES	• Greek (maternal)
	• English (fluent)
	• German (good)
	• French (basic)
MORE INFORMATION	More information and auxiliary documents can be found at http://users.uoa.gr/~npoulios/.