GEORGIOS BELIGIANNIS

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OBJECTIVE

Recent MSc graduate in Applied Mathematics with programming background and analytical mindset. Actively seeking roles in data analysis, computational modeling, or R&D in the shipping or financial sectors.

EDUCATION

National Technical University of Athens *2022–2025*
Department of Applied Mathematics and Physical Sciences
MSc in Applied Mathematical Sciences (GPA 9.71/10) – Graduated 1st in class (entry year 2022, graduating year 2025)

National and Kapodistrian University of Athens *2015–2021*
Department of Mathematics
BSc in Mathematics

EMPLOYMENT

Mathematics Teacher, Dynamis Private School / Eurognosi *2022–present*
Teaching mathematics to high school students, with focus on critical thinking and problem-solving skills. Used digital technologies (GeoGebra, Mathematica, Maple) to enhance lesson interactivity.

Private Tutoring *2016–present*
Tutoring in Mathematics and Physics for high school and university students. Specialized in supporting students with learning difficulties by adapting teaching methods to individual learning styles. At university level, provided tutoring in probability theory, statistics, and differential equations.

Commercial Project Management, Benefit MS *2022–2023*
Actively supported the coordination and execution of commercial marketing projects. Tracked progress using Excel and contributed to reporting and KPI monitoring. Worked on-site to oversee campaign implementation, assisting with setup, technical troubleshooting, and maintenance of promotional equipment.

TECHNICAL SKILLS

Programming Languages & Tools: Python (NumPy, SciPy, Matplotlib), MATLAB, R, SQL, Julia, LaTeX

Data Skills: Numerical computing, symbolic computation, SVD, low-rank approximation, data wrangling (SQL), exploratory data analysis

Software: Microsoft Office, Git, GeoGebra, Mathematica, Maple, RStudio

Languages: English (Proficient)

CERTIFICATES

IBM Data Science Professional Certificate - Coursera *2025*
Completed a 12-course specialization covering Python, data analysis, SQL, data visualization, machine learning, and applied data science tools. Developed hands-on projects using real-world datasets with libraries such as Pandas, Matplotlib, and Scikit-learn.

Examination for the Certificate of Proficiency in English (ECPE) *2012*
Michigan

ACADEMIC ACTIVITIES AND PROJECTS

Symmetries of PDEs – Application to the Fokker-Planck Equation *2025*
Master Thesis – NTUA
Supervisors: Prof. A. Charlampopoulos, Prof. G. Athanassoulis
Studied continuous Lie groups and Lie algebras with applications to PDEs and boundary value problems. Focus on determining symmetries and invariant solutions for linear and nonlinear Fokker–Planck-type equations. (Grade: 10/10)

Numerical Study of a Nonlinear Dynamical System *2023*
Investigated the motion and stability of a massless fourth body in the photogravitational four-body problem using numerical methods (Python Mathematica). Focused on equilibrium analysis, stability via linearization and Jacobi integral, and the structure of basins of attraction. Explored how variations in mass, radiation, and energy affect the system's qualitative dynamics. The project combined techniques from celestial mechanics, nonlinear dynamics, and scientific computing.

Matrix Inversion and Low-Rank Approximations *2020*
Course Project – NKUA
Developed algorithms for inverse matrix computation via Gauss–Jordan elimination and Laplace expansion. Analyzed theoretical complexity. Implemented low-rank matrix approximations using Truncated SVD and Eckart–Young theorem in Python and MATLAB. (Grade: 10/10)