

# Dimitriou Eleftherios

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**Email:** leftedimi@gmail.com

**Date of birth:** 20/02/1995

**Phone:** +30 6977190018

**Citizenship:** Athens, Greece

**Research interests** Orbital dynamics, Celestial mechanics, Dynamical systems  
Numerical simulations

**Academic Education** **Undergraduate studies**  
Bachelor's degree in Physics with major in Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, Department of Physics (2015 – 2021)  
**Postgraduate studies**  
Master's degree in Computational Physics, Aristotle University of Thessaloniki, Department of Physics (2021 – 2024)

**Research as undergraduate student** **Project:** Theoretical study and simulation of the orbital dynamics of small bodies, having close encounters with the Earth  
**Supervisors:** Prof. Nektarios Vlahakis; (vlahakis@uoa.gr); National and Kapodistrian University of Athens, Department of Physics, in cooperation with Research Center for Astronomy and Applied Mathematics, Academy of Athens under the supervision of Prof. Christos Efthymiopoulos; (christos.efthymiopoulos@math.unipd.it)

**Research as post-graduate student** **Thesis:** Integrating Hamiltonian Dynamics: A modified Bulirsch-Stoer approach using symplectic schemes  
**Supervisor:** Asst. Prof. Ioannis Gkolias (igkoli@physics.auth.gr)

**Working experience** **Software Development - BETA CAE Systems**  
Internship, 12/22 - 5/23

**Conferences and Summer Schools** **Dynamical Systems and Complexity**  
National Technical University of Athens, 14-20 July 2019  
<http://complexity2019.ntua.gr>  
National Center for Scientific Research "Demokritos", 19-24 July 2021  
<http://cosa.inn.demokritos.gr/complexity2021/>

**Workshops** **High Performance Computing (Hands-on):** Use of MPI, CUDA, OpenMP, for basic and advance (Krylov type solver) examples, National Technical University of Athens, 8-11 July 2024, <https://hpc-workshop.chemeng.ntua.gr/>

**Skills** **Programming**  
C, C++, Python, FORTRAN, Matlab, Mathematica, Gnuplot, L<sup>A</sup>T<sub>E</sub>X

Languages Greek (native), English (fluent)

Other information Military services completed, 17/7 2023 - 17/7 2024