

Victor-Ovidiu Şlupic

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Education

- 2023-Ongoing **Ph.D. in Mathematical Physics, Supervisor: Iuliu-Călin Lăzăroiu, University of Bucharest, Romania.**
Thesis, Geometric dynamical systems theory applied to multifield cosmological models .
- 2021-2023 **Master's Degree in Physics for Advanced Technologies, Alexandru Ioan Cuza University of Iasi, Romania.**
Thesis, Motion of particles around black holes, where I conducted an in-depth study of the motion of particles around static black holes, developing and implementing advanced numerical methods to simulate massive and massless particle behavior.
- 2014-2017 **Bachelor's Degree in Physics, Alexandru Ioan Cuza University of Iasi, Romania.**
Thesis, Spontaneous Symmetry breaking mechanism and Gauge Theories, grade 9.5/10.
- 2009-2014 **Secondary School Diploma in IT, Technical Institute "A. Volta", Italy.**

Conferences

- o FarPhys 4 November 2022 - Oral Presentation: Thermodynamic stability of Reissner-Nordström black holes with quintessence and solid angle deficit
- o FTEM 14 May 2022 - Oral Presentation: Particles trajectory around Kerr black hole
- o The Eight Congress of Romanian Mathematicians - Event organizer
- o XXXII International Conference on Phenomena in Ionized Gasses - Event organizer

Work experience

- 01/01/2021-05/01/2022 **Software Engineer I, Vitesco Technologies, Romania.**
Developed code to control electric vehicle inverters, more exactly I have implemented a Kalman Filter that reduced the overall cost of the vehicle and dependency on hardware significantly while being part of a global team of 120+ developers across 19 countries. Moreover, I provided training on time management and task estimation techniques.
- 01/08/2022 - Present **President, Association of Physics Students at Alexandru Ioan Cuza University of Iasi.**
President and founding member of ASFIZ-UAIC (80+ members out of 210 registered students). Successfully led a term as the first president of a physics association, fostered inclusivity and encouraged participation, spearheaded numerous events and initiatives including guest lectures, workshops, and research symposia, and inspired and motivated members through their passion for physics and commitment to achieving the association's goals.

International Experiences

- 10/08/2019 - 16/08/2019 **Nordita Master Class, Sweden.**
- 17/06/2016 - 14/09/2016 **Erasmus + Student Mobility, University of Helsinki, Finland.**

Languages and Computer skills

Native proficiency	Italian, Romanian	Programming	C, Python, Matlab, Targetlink
Professional proficiency	English C1, Band 7.5 IELTS Academic Exam	Data Analysis	Mathematica, Maple, OriginPro

Extracurricular Activities

- Old books collection **I have collected classical physics monographs; over 200 historical physics textbooks/monographs, including A third reprint of Maxwell's Electricity and Magnetism treatises, a Second reprint of Hilbert and Courant Methods Of Mathematical Physics and a first print of Methods of Theoretical Physics. by Morse and Feshbach.**