

# Victor-Ovidiu Şlupic

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## Education

- 2023-ongoing **Ph.D. in Theoretical Physics**, Supervisor: **Ciprian Sorin Acatrinei**, *University of Bucharest, Romania*.  
**Thesis**, *Quantum Field Theory on Noncommutative Space*.
- 2021-2023 **Master's Degree in Physics for Adv. Tech.**, *Alexandru Ioan Cuza University of Iasi, Romania*.  
**Thesis**, *Motion of particles around black holes*, Studied particle dynamics near static black holes using numerical simulations.
- 2017-2023 **Master's Degree in Theoretical Physics**, *Stockholm University, Sweden*.  
**Thesis**, *Multi-soliton solutions of the Cubic Szegő equation on the real line*.
- 2014-2017 **Bachelor's Degree in Physics**, *Alexandru Ioan Cuza University of Iasi, Romania*.  
**Thesis**, *Spontaneous Symmetry breaking mechanism and Gauge Theories*.
- 2009-2014 **Secondary School Diploma in IT**, *Technical Institute "A. Volta", Italy*.

## Conferences, Workshops and Schools

- **CERN Winter School on Supergravity, Strings and Gauge Theory 2025**, Geneva (Switzerland), 3-7 February 2025
- **18th National Conference of Biophysics**, Iasi (Romania), 5-7 September 2024
- **Summer School on Cosmology - Petnica Summer Institute**, Petnica (Serbia), 1-10 August 2024
- **2nd Training School COST Action COSMIC WISPerS (CA21106)**, Ljubljana (Slovenia), 10-14 June 2024
- **QFT AND NONLINEAR DYNAMICS**: Dynamical aspects of multifield cosmological models, Craiova (Romania), 22-27 April 2024
- **ICTP Workshop on String Theory, Holography, and Black Holes**, Trieste (Italy), 23-27 Oct 2023
- **FarPhys**: Thermodynamic stability of Reissner-Nordström Black Holes with quintessence and solid angle deficit, Iasi (Romania), 4 Nov 2022
- **FTEM**: Particles trajectory around Kerr Black Hole, Iasi (Romania), 14 May 2022
- **The Eight Congress of Romanian Mathematicians**, Iasi (Romania), June 26 - July 1, 2015
- **XXXII International Conference on Phenomena in Ionized Gases**, Iasi (Romania), 26-31 July 2015

## Work experience

- 11/2023-ongoing **Scientific Research Assistant**, *IFIN-HH DFT, Romania*.
- 08/2022 - **President**, *Association of Physics Students at Alexandru Ioan Cuza University of Iasi*.
- 10/2023 President and founding member of ASFIZ-UAIC (80+ members out of 210 registered students). First President, Physics Association: Initiated inclusive events, lectures; inspired members with passion for physics and goal-oriented leadership.
- 01/2021- **Software Engineer I**, *Vitesco Technologies, Romania*.
- 01/2022 Developed code to control electric vehicle

## International Experiences

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

## Languages and Computer skills

Native proficiency Italian, Romanian

Programming C, Python, Matlab, Targetlink

## Extracurricular Activities

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.

## Publications

July 2024 **E. M. Babalic, C. I. Lazaroiu, V. O. Slupic**, *Strong rapid turn inflation and contact Hamilton-Jacobi equations*, arXiv preprint arXiv:2407.19912 [hep-th].  
DOI: 10.48550/arXiv.2407.19912