Curriculum vitae   Victor E. Ambruş

CONTACT INFORMATION	Department of Physics, West University of Timişoara, Bd. Vasile Pârvan 4, RO-300223 Timişoara	+40 256 592 108 victor.ambrus@e-uvt.ro

RESEARCH INTERESTS

- **Lattice Boltzmann modelling** and applications in rarefied gas flows.
- **Relativistic kinetic theory** and applications in quark-gluon plasma.
- **Quantum field theory** at finite temperature.

EDUCATIONAL BACKGROUND (DEGREES AND WHERE AND WHEN THEY WERE GRANTED)

University of Sheffield, UK

Ph.D., Quantum field theory on curved spaces, October 2010–December 2014 (awarded on 17th December 2014)
- Thesis title: *Dirac fermions on rotating space-times*
- Supervisor: Prof. Elizabeth Winstanley   (E.Winstanley@sheffield.ac.uk)
- Funded through a Graduate Teaching Assistantship (covering tuition & maintenance), awarded by the University of Sheffield.

West University of Timişoara, Romania

M.Sc., Quantum fields and elementary processes, October 2008–July 2010
- Thesis title: *Particle production in a Robertson-Walker space with a de Sitter phase of finite extension*
- Supervisor: Dr. Nistor Nicolaevici   (nicolaevici@physics.uvt.ro)

B.Sc., Theoretical physics, October 2005–July 2008
- Thesis title: *The Lattice Boltzmann method and its application in fluid dynamics*
- Supervisor: Dr. Victor Sofonea   (sofonea@acad-tim.tm.edu.ro)

B.Sc., Computer science, October 2005–September 2008
- Thesis title: *Parallel computing techniques on grid architectures*
- Supervisor: Prof. Dana Petcu   (petcu@info.uvt.ro)

PROFESSIONAL EXPERIENCE (POSITIONS HELD)

Lecturer   Since September 2015
Department of Physics
West University of Timişoara, Romania
Courses taught: Physics of Fluids, Stellar Astrophysics, Quantum Field Theory.
Coordinator of the Mesoscopic systems (G4) research group.

Humboldt Postdoctoral Researcher   June 2020–May 2022
Institute for theoretical Physics, Goethe University, Frankfurt am Main, DE
Project title: *Relaxation-time approximation in quark-gluon plasma modelling*
Project hosts: Prof. Dr. Carsten Greiner, Prof. Dr. Dirk Rischke

Fulbright Visiting Scholar   February – July 2019
Old Dominion University, Norfolk, VA, USA
Project title: *Analytical and Numerical Techniques for Knudsen Layer Analysis in Rarefied Channel Flows*
Project host: Li-Shi Luo, Professor & Eminent Scholar & Richard F. Barry Endowed Chair

Research associate   May 2012–September 2016
Centre for Fundamental and Advanced Technical Research
Romanian Academy – Timişoara Branch, Romania

Research assistant   January 2007–July 2008
Department of Physics
West University of Timişoara, Romania