

Ștefan Bogdan STANCIU



CONTACT

Birth Date:

07/06/1993

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LANGUAGES

English – C1

WORK EXPERIENCE

Research experience:

06/2015 – Present

Researcher at National Institute of Materials Physics (NIMP)
105 bis / Atomistilor / P.O. Box MG-7, 077125 Magurele, Bucharest
(Romania)

I have studied electron transport in quantum dots. In order to obtain numerical results I developed Fortran programs together with my colleagues. The program gives the temporal evolution of the quantities of interest by solving an integro-differential equation with the Runge-Kutta method.

Research stages:

Joint Institute for Nuclear
Research, University Centre
Dubna

06/2015–07/2015

EDUCATION

PhD in Physics (Condensed Matter Physics)

10/2017–Present

University of Bucharest, Faculty of Physics, 405 Atomistilor P.O. Box
MG-11, 077125 Magurele, Bucharest (Romania)

Master in Physics

10/2015–07/2017

University of Bucharest, Faculty of Physics

Specialization: Computational and Theoretical Physics

Relevant courses: Modern computational methods in physics, special chapters of mathematics, simulation methods in theoretical physics, group theory, advanced parallel computing.

Bachelor in Physics

10/2012–07/2015

University of Bucharest, Faculty of Physics

Relevant courses: Computer programming, Processing of Physical Data and Numerical Methods, Simulation methods in physics, Numerical methods in quantum mechanics, Real and Complex Analysis, Algebra, Geometry, and Differential Equations, Equations of Mathematical Physics, Electronics.

Grade Point Average: 10 (Top of the class out of 60)

HONORS AND AWARDS

I have participated at the National Physics Olympiad every year from 2008-2012, ranking within top 30% each year.

In 2012 I have qualified into the extended group selected in order to decide participants to the International Physics Olympiad.

Vranceanu-Procopiu National Mathematics and Physics Contest, 2012 – 2nd place.

SKILLS AND COMPETENCES

Technical skills: Mathematica, programming skills (C/C++, Fortran), Good command of MSOffice

Social skills: Highly motivated to learn new things, autodidact, good communication, honesty, hard-working, team spirit

PUBLICATIONS

Tanatar, B., Moldoveanu, V., Dragomir, R., & Stanciu, S. (2019). Interaction and Size Effects in Open Nano-Electromechanical Systems. *physica status solidi (b)*, 256(6), 1800443.

Dragomir, R., Moldoveanu, V., Stanciu, S., & Tanatar, B. (2020). Quantum turnstile regime of nanoelectromechanical systems. *Physical Review B*, 101(16), 165409.