

Curriculum Vitae

Personal:

First Name: Sergey
Middle Name (Patronymic): Valerievich
Last Name: Marchenko
Date and Place of Birth: 06 August 1985, Odessa, Ukraine
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Spoken Languages: English; Russian (native); Ukrainian (native)

Education:

- Postgraduate student, 2007-2010, Department of Theoretical Physics, Odessa I. I. Mechnikov National University, Odessa Ukraine.
Ph.D. project: “*Excited electronic states in some low-dimensional structures*” (in progress).
PhD adviser – Prof. Vadym Adamyan.
- Higher Education Diploma with Honours in theoretical physics, 2007, M.Sc. Degree, Odessa I.I. Mechnikov National University, Odessa Ukraine.
Master’s thesis: “*Stability of trionic excitations in carbon nanotubes*”.
Scientific adviser – Prof. Vadym Adamyan.
- Higher Education Diploma with Honours in theoretical physics, 2006, B.Sc. Degree, Odessa I. I. Mechnikov National University, Odessa Ukraine.
Bachelor’s thesis: “*Excited states of excitons in 1D semiconductors*” .
Scientific adviser – Prof. Vadym Adamyan.

Skills:

Theoretical physics, mathematics, methods of mathematical physics, mathematical software, numerical methods, programming (Delphi), Adobe Connect, LaTeX.

Scientific Interests:

Biophysics, Classical Mechanics, Computational Phylogenetics, Condensed Matter, Mathematical Physics, Mathematical Biology, Nanoscale Physics, Quantum Theory.

Teaching Experience:

(Secondary school “Richelieu Lyceum”, Odessa, Ukraine)

- Leader of School Team at The Ukrainian Young Physicist Tournament, 2005-2006 (Took second place on the all-Ukrainian tour).

(Private school “Nika-M”, Odessa, Ukraine)

- Physics, 2008-2009.

(Faculty of Physics, Odessa I. I. Mechnikov National University, Odessa, Ukraine)

- Introduction to Mathematical Analysis, 2006-2007.
- Classical Mechanics, 2007-2009.
- Methods of Mathematical Physics, 2008-2009.
- Quantum Mechanics, 2007-2011.

(Department of Biological Physics, Odessa National Medical University, Odessa, Ukraine)

- Biophysics and Medical Physics, 2010-2013.
- Physics, 2010-2012.
- Mathematics, 2010-2012.
- Medical Informatics, 2010-2013.
- Further Mathematics for Pharmacists, 2011-2013.

Other Research Experience:

- Engineer, Scientific-Research Institute of Physics, Odessa I.I. Mechnikov National University, Odessa, Ukraine, 2006-2008.
- Senior technician, Department of Theoretical Physics, Odessa I.I. Mechnikov National University, Odessa Ukraine, 2009-2010.

Organizing experience:

- Member of organizing committee at the International Conference “*Modern Analysis and Applications*” (MAA 2007) dedicated to the centenary of Mark Krein, April 9–14, 2007, Odessa, Ukraine.
- Member of organizing committee at the International Symposium “*Physics of Complex Fluids*” in Memory of Alexander Vsevolodovich Zlatovskiy (1942-2006), June 6, 2012, Odessa, Ukraine.

Participation in Conferences:

- International Students and Young Scientists Conference “HEUREKA-2007”, May 22-24, 2007, Lviv, Ukraine.
- International Students and Young Scientists Conference “HEUREKA-2008”, May 19-21, 2008, Lviv, Ukraine.
- Physics and Technology of Thin Films and Nanosystems, XII International Conference, May 18-23, 2009, Ivano-Frankivsk, Ukraine.
- Modern Problems of Theoretical Physics, December 24-26, 2009, Kiev, Ukraine.
- Modern Problems of Theoretical Physics, December 22-24, 2010, Kiev, Ukraine.
- Modern Problems of Theoretical Physics, December 21-23, 2011, Kiev, Ukraine.

Publication List:

- Vladimir Zavalniuk, Sergey Marchenko, *"Theoretical analysis of telescopic oscillations in multi-walled carbon nanotubes"*, [Low Temp. Phys. 37 \(4\): 337](#), (2011).
- Sergey Marchenko, *"Stability of Trionic States in Zigzag Carbon Nanotubes"*, [Ukr. J. Phys. 57](#), pp.1055-9, (2012).

Referee:

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