

Alexey A. SHCHERBAKOV



Birth date: November 8, 1985

Nationality: Russia

Marital status: married

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Work Address

Office 2537, 9 Lomonosova, Saint-Petersburg, Russia

EDUCATION

Doctor of Philosophy / Candidate of Science

University Jean Monnet, Saint-Etienne, France

June 2012

qualified in: Electronics, optronics and systems
under collaboration with

Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

April 2012

qualified in: Radiophysics

THESIS: Light scattering calculation in dielectric layers containing micro- and nanoparticles of high refractive index.

Master of Science

Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

July 2008

Chair of Problems of Theoretical Physics and Astrophysics

qualified in: Applied Physics and Mathematics (red diploma)

GPA 4.77/5

Bachelor of Science

Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

July 2006

Chair of Radiophysics

qualified in: Applied Physics and Mathematics (red diploma)

GPA 4.96/5

PROFESSIONAL EXPERIENCE

ITMO University, Saint-Petersburg, Russia

Research Fellow, Assistant Professor

2018 – Present

Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

Research Fellow

July 2008 – July 2012

Senior Research Fellow, Part-time Assistant Professor

2012 – 2020

University Jean Monnet, Saint-Etienne, France

Invited Researcher

April-May 2019, March 2018, April 2017; June 2016

Postdoc

May – July 2015

Contract Researcher

2011

University of Bourgundy, Dijon, France

Invited Lecturer

January 2021, January 2020, January 2019

Evening School of Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

Advanced Scholar Physics Teacher

March 2005 – June 2008

PROFESSIONAL SKILLS DEVELOPMENT

Situational management

ITMO University, Russia

2021

Scientific Leadership School by the Russian Science Foundation

Skolkovo Institute, Skolkovo, Russia

October 2017

Russian Quantum Center Spring School

Russian Quantum Center, Russia

March 2013

High-performance computing: OpenMP, MPI, CUDA

High-Performance Computing Summer School of Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

August 2012

Transactor with specialized subject skills

Moscow Institute of Physics and Technology, Dolgoprudnyi, Russia

2010-2011

PROFESSIONAL ACTIVITY

- Leader of the Computational Physics Group at the Department of Physics, ITMO University.
- PI in 5 projects (since 2010) and principal investigator in research grants provided by Russian Ministry of Education and Science, Russian Foundation for Basic Research, and Russian Science Foundation.
- More than 50 scientific publications in peer-reviewed journals and conference proceedings.
- Reviewer of OSA, Elsevier and IOP journals, reviewer for the Russian Science Foundation.
- Guest editor for the special issue of the Journal of Quantitative Spectroscopy and Radiative Transfer.
- Organizer of a special session "Advanced Theoretical and Numerical Tools for Nanooptics, Photonics and Plasmonics" at the international METANANO 2019 Conference.
- Organizer of an online international XIX Electromagnetic and Light Scattering conference, 2021 (e1s2021.physics.itmo.ru).
- Responsible for an educational track in numerical physics at the Physics Department of the IMTO University.
- Member of the Academic Council of the School of Physics and Engineering, ITMO University.
- Supervisor of bachelor, master and PhD students at the Physics Department of the IMTO University.

HONORS AND AWARDS

- Best lecturer ITMO Edu Award 2022
- Russian Academy of Sciences Medal for Young Scientists 2013
- Russian President scholarship for young scientists and PhD students 2012-2014
- 3d rank diploma of the Regional stage of the Russian Physics Olympiad 2002
- Secondary education Gold Medal 2002