



Sergei Gladyshev

Born 05 January 1996

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GOOGLE SCHOLAR: <https://clck.ru/QV3Nm>

WORK EXPERIENCE

November 2017 – present

Engineer

The Department of Physics and Engineering of the ITMO University, Saint Petersburg, Russia

- SCIENTIFIC INTERESTS: Photonics, Mie scattering, Multipole decomposition of eigenmodes, Bound and Quasi-bound states in a continuum

February 2021 – present

Assistant lecturer: General physics

The Department of Physics and Engineering of the ITMO University, Saint Petersburg, Russia

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EDUCATION

2018 – 2020

Master's degree (Nanophotonics and metamaterials)

ITMO University, Saint Petersburg, Russia

Graduation thesis: Symmetry Analysis and Multipole Decomposition of Eigenmodes of Optical Resonators

2014 – 2018

Bachelor's degree (Applied Mathematics and Physics)

Saint-Petersburg Academic University, Saint Petersburg, Russia

Graduation thesis: High-Q states in single dielectric resonators, formed as a result of strong coupling of eigenmodes

2012 – 2014

High school degree with specialization in physics and mathematics

St Petersburg Presidential Physics and Mathematics Lyceum №239, Saint Petersburg, Russia

Main articles

Advanced Photonics

Bound states in the continuum and Fano resonances in the strong mode coupling regime. (Editors-in-Chief Choice Award 2020)

Bogdanov, A. A., Koshelev, K. L., Kapitanova, P. V., Rybin, M. V., Gladyshev, S. A., Sadrieva, Z. F., ... Limonov, M. F. (2019).

Physical Review B

Symmetry analysis and multipole classification of eigenmodes in electromagnetic resonators for engineering their optical properties.

Gladishev, S., Frizyuk, K., Bogdanov, A. (2020).

Advance Materials

Observation of supercavity modes in subwavelength dielectric resonators

Odit, M., Koshelev, K., Gladyshev, S., Ladutenko, K., Kivshar, Y., Bogdanov, A. (2020).

Research Activities

SPIE Photonics Europe
Digital Forum 2020

Analysis of multipolar contributions to eigenmodes in resonators of various shapes.

Online (Oral presentation)

Metanano 2019

Symmetry analysis of multipolar contributions to eigenmodes of optical resonators.

Saint-Petersburg, Russia (Poster)

International School and
Conference
"Saint-Petersburg OPEN
2018"

High-Q states and strong mode coupling in high-index dielectric resonators.

Saint-Petersburg, Russia (Poster)

Technical skills

Programming Languages

- Matlab
- Python
- Fortran
- Mathematica

Computer software

- COMSOL Multiphysics
- CST Microwave Studio

Personal skills

Strengths

- Strong motivational and leadership skills.
- Logical, analytical and computational skills.
- Positive attitude.

Languages Known

- English : Upper-intermediate (B2)
- Russian : Mother language