

Vladimir Igoshin

Curriculum Vitae

Faculty of Physics, ITMO University
Saint-Petersburg, Russia
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📄 Vladimir Igoshin
🌐 djiboshin

Education

- 2023–present **Master, Computer Modeling of Quantum and Nanophotonic Systems, ITMO University, Russia.**
- 2019–2023 **Bachelor, Applied and Theoretical Physics, ITMO University, Russia.**
- 2017–2019 **High school student, Presidential Physics and Mathematics Lyceum No. 239, Russia.**

Publications

Journal Articles

- 2022 Mariia Tsimokha, **Vladimir Igoshin**, Anastasia Nikitina, Ivan Toftul, Kristina Frizyuk, and Mihail Petrov. Acoustic resonators: Symmetry classification and multipolar content of the eigenmodes. *Phys. Rev. B*, volume 105, page 165311. American Physical Society, 2022, (**IF: 3.908, Q1**).

Conference Proceedings

- 2021 **Vladimir Igoshin**, Anastasia Nikitina, Mariia Tsimokha, Ivan Toftul, Mihail Petrov, and Kristina Frizyuk. High-Q states in acoustic apple-shaped resonators. *J. Phys. Conf. Ser.*, volume 2015, page 012040. IOP Publishing, 2021.

Research Experience

ITMO University, Russia

- 2021–present **Research assistant.**
Studying eigenmodes of single acoustic resonators of different shapes using group theory and numerical simulations.
- Advisor : **Dr. Mihail Petrov**, Assistant Professor, Faculty of Physics, ITMO University

Awards

- 2020 **Awardee** of X youth award in science and innovation 2020 with the video about quantum physics in bouncing droplets
- 2019 **Scholarship** of St. Petersburg Government

Computer skills

- Programming **Python**, C++, JavaScript (Svelte), \LaTeX
- Workflow Git, Docker
- Modelling COMSOL Multiphysics (Acoustics module, Wave Optics module)
- Illustrations Adobe Illustrator, InkScape

Hobbies

Circuit building and MSU programming (Arduino, ESP32), The Internet of things, 3D printing and modeling

Pet projects

Python package **pckit** for parallel computing

Telegram bot for meeting rooms booking and telegram bot for internal faculty wiki

Telegram bot with city tours

Telegram bot with faculty class schedule

Referees

Dr. Mihail Petrov

Assistant Professor

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Kristina Frizyuk

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