

# Curriculum VITAE



## PERSONAL DATA

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NAME: Gleb Fedorovich  
PLACE AND DATE OF BIRTH: St. Petersburg, Russian Federation | 30 October 1998  
ADDRESS: 10 Verbnaya street, St. Petersburg, Russian Federation  
PHONE: +7 921 321 58 16  
EMAIL: [gleb.fedorovich@metalab.ifmo.ru](mailto:gleb.fedorovich@metalab.ifmo.ru)

## WORK EXPERIENCE

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JUNE 2019 - Present | *Junior Researcher, ITMO University, Department of Physics and Engineering*  
Theory of symmetric and asymmetric interactions in 1D chirally coupled quantum systems in the presence of disorder

## EDUCATION

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SEPT. 2010 - MAY 2017 Presidential Physics and Mathematics Lyceum 239  
SEPT. 2017 - Present Undergraduate student, Department of Physics and Engineering, ITMO University

## SUPERVISOR

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Mihail Petrov, Department of Physics and Engineering, ITMO University

## SCHOLARSHIPS AND CERTIFICATES

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SEPT. 2017 - AUG. 2018 St. Petersburg Government Scholarship in Physics  
SEPT. 2018 - AUG. 2019 St. Petersburg Government Scholarship in Physics

## PUBLICATIONS

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Fedorovich, G., D. Kornovan, and M. Petrov. "Disorder in two-level atom array chirally coupled via waveguiding mode", 2020, <https://arxiv.org/abs/2012.06886>

## CONFERENCE PROCEEDINGS

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Fedorovich, G., D. Kornovan, and M. Petrov. "Disorder in one-dimensional array of two-level systems coupled to a waveguiding mode." AIP Conference Proceedings. Vol. 2300. No. 1. AIP Publishing LLC, 2020  
<https://doi.org/10.1063/5.0032487>

## CONFERENCES AND SCIENCE SCHOOLS

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- 1) METANANO 2020 (oral talk and technical support team), St. Petersburg, Russian Federation  
<https://metanano.itmo.ru/>
- 2) Winter school on semiconductors 2020, St. Petersburg, Russian Federation
- 3) 21th Russian Youth Conference on Physics of Semiconductors and Nanostructures  
25–29 November 2019 (poster talk), St. Petersburg, Russian Federation
- 4) METANANO 2019(listener and technical support team), St. Petersburg, Russian Federation
- 5) Student school on quantum communications, Sochi, Russian Federation
- 6) METANANO 2018, Sochi, Russian Federation
- 7) Student school on nanophotonics 2018, Sochi, Russian Federation

## LANGUAGES

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RUSSIAN: Mothertongue  
ENGLISH: Advanced(C1 level, IELTS Academic overall rate - 7.0)

## RESEARCH PROJECTS

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- Modeling the Dicke's superradiance in atomic chains
- Calculation of optical forces and moments, acting on nanoparticles in external electromagnetic fields
- Disorder in one-dimensional array of two-level systems coupled to a waveguiding mode

## MODELING EXPERIENCE

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- Numerical calculations in Python and Matlab programming environments, modeling in COMSOL Multiphysics
- Implementation of the Transfer Matrix Method for studies of light propagation in layered structures

## EXPERIMENTAL EXPERIENCE

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- Conducting back focal plane microscopy experiments for visualization the dispersion of surface plasmon-polariton

## PERSONAL QUALITIES

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- Hard-working, highly productive
- Conscientious, disciplined
- Flexible, open-minded