Gulnaz Rakhmanova

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EDUCATION

- 2014 2018 Bachelor of Technical Physics
 Peter the Great St. Petersburg Polytechnic University, St. Petersburg. Major area
 of study: Physical Electronics. Thesis topic: Electron-beam modification of optical
 properties of phosphate glasses with high concentration of silver

 2018 2020 Master of Technical Physics
- 2018 2020 **Master of Technical Physics** ITMO (Information Technologies, Mechanics and Optics) University, St. Petersburg. Major area of study: Nanophotonics and metamaterials. Thesis topic: Topological plasmon-polariton on a Dirac magnet helical state

WORK EXPERIENCE

- 2016 2018 **Researcher** Scientific Laboratory of Physics of the Interaction of Radiation with Matter, Department of Physical Electronics, Peter the Great St. Petersburg Polytechnic University
 - 2015 NOW **Tutor in Physics and Maths** *Freelance*

2019 – NOW **Researcher** International Scientific Laboratory of Photoprocesses in Mesoscopic Systems, Department of Physics and Engineering, ITMO University

PUBLICATIONS

- Iorsh I. V., Rahmanova G. R., Titov M. Plasmon-polariton from a helical state in a Dirac magnet // ACS Photonics 2019, Vol. 6, No. 10, pp. 2450-2454
- Rakhmanova G.R., Iorsh I.V., Titov M. Topological plasmon-polariton on a Dirac magnet helical state // Journal of Physics: Conference Series 2019, Vol. 1410, No. 1, pp. 012158
- Sidorov A.I., Yurina U.V., Rakhmanova G.R., Shinkarenko M.N., Podsvirov O.A., Fedorov Y.K., Nashchekin A.V. Electron-beam modification of optical properties of phosphate glasses with high concentration of silver // Journal of Non-Crystalline Solids 2018, Vol. 499, pp. 278-282

SKILLS

COMPUTER SKILLS Python, OriginPro, Mathematica, Matlab, Latex, Microsoft Office, CST, GitHub

LANGUAGES Russian (native speaker), English (upper-intermediate)

ACHIEVEMENTS

- Master degree with honours
- Assistance with the course "Electrodynamics of Metamaterials"

- Posters on 3 international conferences on physics
- 3rd place in the case championship "Metal Cup-2017"
- 3rd place in the case championship "Unilever Chain Reaction 2017"

EXTRA-CIRRUCULAR ACTIVITIES

- I have been in the USA under Work And Travel program for 3 months and have worked as ride-operator in the amusement park
- I like alpine skiing and I was professionally involved in skiing for 12 years. Also I like jogging, playing basketball and doing yoga
- I am interested in teaching, psychology, travelling and reading books