

# Artem Shalev

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## EDUCATION

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|---|---|
| <b>ITMO University</b><br>PhD student in Optics   | St.Petersburg, Russian Federation<br>2022–Current |
| – Preliminary thesis name: “Bound states in the continuum in the multipolar lattices”                                       |   |
| <b>ITMO University</b><br>M.S. in Technical Physics, cum laude  | St.Petersburg, Russian Federation<br>2020–2022    |
| – Thesis: “Angular pinning of accidental bound states in the continuum in 2D periodic structures”                           |   |
| <b>Tomsk State University of Control Systems and Radioelectronics</b><br>B.S. in Electronics and Nanoelectronics, cum laude | Tomsk, Russian Federation<br>2016–2020            |
| – Thesis: “Study of temperature stability of Schottky barrier contacts”   |   |

## EXPERIENCE

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| <b>ITMO University   School of Physics and Engineering</b><br>Engineer   | St. Petersburg, Russian Federation<br>Summer 2021 - Current |
| – Carrying out research on several topics: bound states in the continuum, light propagation through liquid crystal media |   |
| <b>Scientific Research Institute of Semiconductor Devices</b><br>Trainee laboratory assistant                            | Tomsk, Russian Federation<br>Summer 2019 - Summer 2020      |
| – Schottky barrier contacts investigations: Carrying out measurements and calculations on Schottky barrier contacts.     |   |

## PUBLICATIONS

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- [1] A. Shalev, I. Lobanov, and A. Bogdanov, *Two approaches in defining topological charge of bound states in the continuum in multipolar lattices*, 2023.
- [2] S. Gladyshev, A. Shalev, K. Frizyuk, K. Ladutenko, and A. Bogdanov, “Bound states in the continuum in multipolar lattices”, *Phys. Rev. B*, vol. 105, p. L241301, 24 Jun. 2022.
- [3] S. Gladyshev, A. Shalev, K. Frizyuk, K. Ladutenko, and A. Bogdanov, “Bound states in the continuum in the multipole approximation”, in *Metamaterials XIII*, K. F. MacDonald, I. Staude, and A. V. Zayats, Eds., International Society for Optics and Photonics, vol. 12130, SPIE, 2022, 121300G.
- [4] S. A. Gladyshev, A. N. Shalev, K. S. Ladutenko, and A. A. Bogdanov, “Angular pinning of accidental bound state in the continuum”, in *2021 Photonics Electromagnetics Research Symposium (PIERS)*, 2021, pp. 2579–2582.

## TEACHING

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- **Teaching Assistant** at ITMO University Spring 2023 - Current  
*Matrix methods*

## SKILLS

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- **Simulations:** CST Microwave Studio, Comsol Multiphysics
- **Programming:** Python, Fortran, MATLAB, Lua
- **Visualisation:** POV-Ray, Figma

## LANGUAGES

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- **Russian** Native
- **English** Advanced
- **Chinese** Beginner

## EXTRACURRICULAR ACTIVITIES

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- Engineering forum based on Ural Federal University Spring 2021  
*Attending lectures regarding to radioengineering and programming*
- SLALOM Winter 2022  
*Attending lectures regarding to modern light sources technologies*
- Winter School on Photonics Winter 2022  
*Attending lectures regarding to photonics. Taking participation in Poster session*