

- A research in condensed matter and superconductivity. I used special analytical methods for models with tight-binding models and liner algebra.
- The thesis is available [here](#).

Waveguide QED

 October 2024 – January 2025

- A research in quantum optics using methods of quantum field theory.
- Analyzed real-time dynamics of photons and their interaction with qubits, learned better QFT and quantum optics.

Gravitational Lensing in Binary Systems (Bachelor's project)

 October 2020 – June 2021

- Analyzed lensing of binary systems, use computational methods to obtain their lensing properties.
- Studied Pickard-Lefschetz theory, wave optics, wolfram, computer modeling.
- The thesis is available [here](#)

WORKING EXPERIENCE

Researcher | University of Ljubljana

 February 2025 – October 2025

 Ljubljana, Slovenia

- Research on superconductors with dissipation

Junior Researcher | Company "Terra Quantum"

 July 2021 – April 2022

 Moscow, Russia

- Studied gravitational waves and their detection and electrodynamics in a curved space-time
- Researched a possibility of gravitational wave detection in waveguide

MOST PROUD OF



Passed the Landau Theoretical Minimum Exam

Solved three hard problems on electrodynamics and general relativity on the exam of the field theory. Regularly I prepare myself for the rest of the exams.



Organised notes

Developed a system of organising notes of studied material and research findings in \LaTeX files. Many of them are from 1000 to 2000 pages.



Do sports and lead a healthy lifestyle

Daily workout, weight control, healthy diet. In 2021 practiced martial arts (sambo).

LEARNED DISCIPLINES

Theoretical physics:

Classical Mechanics Field Theory General Relativity

Quantum Mechanics Quantum Field Theory

Statistical Physics Condensed Matter Physics Thermodynamics

Physical Kinetics Classical Electrodynamics Optics

Quantum Information Theory Gravitational lensing Cosmology

Mathematics:

Mathematical Analysis Complex Analysis

Differential Equations PDE-s

Linear algebra Differential Geometry

Probability Theory Computational mathematics

Programming: Latex Git Wolfram C/C++ Python