



YURY HOLUBEU

Junior physicist

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STRENGTHS

Goal oriented

Critical thinking

Analytical skills

Creativity

Time management

Presentation skills

Research skills

Business communication skills

FOCUS AREAS

Field theory

Superconductivity

LEARNING NOW

Advanced classical field theory

Quantum field theory

Quantum mechanics

Classical mechanics

LANGUAGES

English: C1, IELTS 7.0 (2022)

Russian: Native

Belarusian: Approximately native

EDUCATION

Master's Degree | KU Leuven

~ Nov 2022 – (planned) January 2025 Leuven, Belgium

- Finished approximately 20 subjects, most of them are in theoretical physics (by August 2024).
- I started studying unofficially in November 2022, but because of a delay in my visa, the official beginning of my studies was in February.
- From October 2022 to December 2022 meanwhile I worked as a general tutor in physics and mathematics, helped students with preparation for exams (for example, in quantum mechanics, kinetics, complex analysis, optics, etc.)
- From January 2022 until June 2023 I worked as a tutor in classical field theory.

Master's Degree | Moscow Institute of Physics and Technology (MIPT)

September 2021 – April 2022 Moscow, Russia

- Department of General and Applied Physics
- Studied mostly quantum information and gravitational wave detection.
- Left not to support russian war

Bachelor's Degree | Moscow Institute of Physics and Technology (MIPT)

September 2016 – June 2021 Moscow, Russia

- Department of General and Applied Physics
- GPA: 3,35
- Kafedra of string theory → Kafedra of JINR
- Studied a broad range of disciplines in physics, math and programming, especially theoretical physics
- Graduation Project "Gravitational Lensing in Binary Systems"

High School | Secondary School #54

September 2014 – May 2016 Minsk, Belarus

- Participated in Physics Olympiads at the national level.
- Finished with excellent marks.

RESEARCH PROJECTS IN PHYSICS

Gravitational Wave Detection

July 2021 – April 2022

- Studied electrodynamics in a curved space-time and properties of gravitational waves (GW).
- Analyzed electromagnetic wave equations in waveguide in presence of GW.

Gravitational Lensing in Binary Systems

📅 October 2020 – June 2021

- Graduation project
- Analyzed lensing of binary systems, use computational methods to obtain their lensing properties.
- Studied Pickard-Lefschetz theory, wave optics, wolfram, computer modeling.

EXPERIENCE

Junior Researcher | [Quantum technology 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