

# **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

- $\stackrel{\rightleftharpoons}{=}$  ~ 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 a range of quantum mechanics subjects
- 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**

- **i** 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**

- **Ocrober 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 modelling.

# **EXPERIENCE**

Junior Researcher | Quantum technology company "Terra Quantum"

- **i** 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 thery. Regularly I prepare myself for the rest of the exams



#### **Organised notes**

My research and studied material are structured and organised in LaTeX files and ready for further research. Many of them are around 1000 pages.



#### Do sports and leave a healthy lifestyle

I do some sport nearly everyday and keep track of my weight. In 2021 practiced marcial arts (sambo).

# LEARNED DISCIPLINES

