

# OLEKSANDR MARMALIUK

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## EXPERIENCE

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**Max Planck Institute for Software Systems**

August 2025 - present

PhD Student under supervision of Björn B. Brandenburg

## EDUCATION

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**Odesa National Mechnikov University, Ukraine**

September 2021 - June 2025

B.S. in Applied Mathematics

Overall GPA: 96.0

## PROJECTS & INTERNSHIPS

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**Center for Responsive AI, New York University**

May 2022 - January 2024

*Research Fellow*

- Advised by Prof. L. Libkin (University of Edinburgh), P. Guagliardo (University of Edinburgh).
- Participated in developing a trainable & configurable SQL query generator.

**Max Planck Institute for Software Systems**

June 2023 - August 2023

*Research Fellow*

*Kaiserslautern, Germany*

- Intern with Real-Time Systems Group, advised by Prof. Björn Brandenburg.

## CONFERENCES

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**Workshop of the Bulgaria-Latvia-Ukraine Initiative for Space Weather Investigations**

2024

“Analysis of ‘space weather’ events based on monitoring of geomagnetic and cosmic ray variations with application of cluster and wavelet analysis, neural networks”

*Primorsko, Bulgaria*

## COMPETITIONS

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ICPC SEERC participant

2022, 2024

Quantum ML Hackaton 3rd place (QML Summer school by Haiqu & UCU)

2024

4th (national) stage of Maths All-Ukrainian Olympiad winner

2019

3rd stage of Programming Olympiad winner

2018, 2021

3rd stage of Physics Olympiad winner

2018, 2020

3rd stage of Maths Olympiad winner

2017-2020

## EXTRACURRICULAR STUDIES

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**Quantum Machine Learning Summer School**

2024

QML school & hackaton

*Haiqu & Ukrainian Catholic University*

**Explore AI @ NYCU workshop**

2024

by Assoc. Prof. Carrson C. Fung (National Yang Ming Chiao Tung University). *NYCU & sponsored by Google exploreCSR*

**Football Analytics**

Football data analysis, based on course at Social Networks Lab  
ETH Zurich by Prof. Dr. Ulrik Brandes.

Dec 2023 - Mar 2024  
*Ukrainian Catholic University*

**Osijek Competitive Programming Camp**

Competitive programming training camp, aimed at ICPC World Finals  
preparation.

2023

**Linear algebra II**

Open course in Linear algebra by Prof. Volodymyr Mazorchuk.

2022  
*Uppsala University*

**Looksery Programming Winter School**

Competitive programming training camp.

2020, 2022  
*Odesa Mechnikov National University*

**SKILLS & INTERESTS**

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**Programming Languages**

Python, C++, Rust; Prolog, Coq (basic)

**Languages**

English (C2 IELTS 8.5), Russian (native), Ukrainian (native).

**Hobbies**

Competitive Programming, Fencing, History, Chess, Football, Sailing