

# Yusif Mehdiyev

+994555418363 | [yusifmehdiyev55@gmail.com](mailto:yusifmehdiyev55@gmail.com) | [ymehdiyev22216@ada.edu.az](mailto:ymehdiyev22216@ada.edu.az) | [josephmehdiyev.org](http://josephmehdiyev.org)

 [JosephMehdiyev](#)  [Joseph Mehdiyev](#)

Azerbaijan, Baku

## EDUCATION

### • ADA University

*Bachelor of Science in Mathematics*

2024 - Present

Baku, Azerbaijan

- GPA: 4.0/4.0
- Rector's List of Honor
- IELTS: 7.5 (8.5/8.5/6.5/6)

### • Complete Secondary School Number 12

*General Secondary Education*

2013 - 2024

Baku, Azerbaijan

- CGPA: 4.97/5.00
- SAT: 1500/1600 (790 M, 710 W/R)
- 11th grade National Exam: 282/300
- 9th grade National Exam: 263/300
- 9th grade Honors Certificate

## PROJECTS

### • Cormat: 3D math software for visualizing mathematical functions from scratch

March 2024 - Present

*Tools: C++, Cmake, OpenGL, GLFW, ImGui, GLSL shaders*



- Developed OpenGL pipeline system to render the mathematical graphs
- Implemented various algorithms and data structures for various purposes
- Implemented Object Oriented Programming structure to organize the project
- Planning to use advanced mathematical skills to optimize the rendering and improve the aesthetical quality of the project

## PUBLICATIONS

### • Probability and Statistics notes

March 2024 - Present

*Personal notebook in a style of a book for personal purposes*



- Talks about Probability Theory, Statistical Inference and its methods, various Statistical models, Simulations and Math behind Machine learning.
- Planning to include coding examples in Python libraries such as pytorch, scikit-learn, scipy and R using tidyverse packages.

### • Real Analysis notes

September 2024 - Present

*Personal notebook in a style of a book for personal purposes*



- Includes notes about core topics of real analysis: completeness of reals, sequences, limits, derivatives, integrals.
- Wrote proofs to selected exercises, and practiced proof writing style and techniques.

## SKILLS

- **Mathematical Knowledge:** Calculus, Linear Algebra, Elementary Graph Theory, Elementary Number Theory, Probability and Statistics, Real Analysis
- **Programming Languages:** C, C++, Python, R, Lua, Python
- **Database Systems:** PostgreSQL
- **DevOps & Version Control:** Git, Cmake, Docker
- **Language Knowledge:** Azerbaijani (Native), Turkish (C1), English (C1; IELTS 7.5), French (B1)
- **Other Tools & Technologies:** Latex, Linux (arch and debian based), Microsoft Excel, RStudio, Vim/Neovim

## CONTESTS, AWARDS AND OTHER ACTIVITIES

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- **CodeForces Competitive Programming Contests**

May 2024 - Present

*Practicing Competitive Programming skills periodically*



- Currently learning new algorithm concepts and data structures and implementing them in a quick manner competitively.

- **Azerbaijan Olympiads blogger**

April 2022 - September 2022

*Art of Problem Solving Forum*



- Archived Azerbaijan olympiad TSTST, TST and other problems for various national and international olympiads such as Azerbaijan Senior National Olympiad, Juniors' and Seniors' Balkan Mathematical Olympiad and International Mathematics Olympiad.

- **Azerbaijan Juniors' Mathematics Camp Participant**

September 2021 - June 2022

*Azerbaijan olympiad camp for training individuals for famous mathematical olympiads such as IMO, BMO, and JBMO*

- Collaborated with peers to solve challenging mathematical problems
- Participated in intensive training sessions, improving problem-solving strategies and critical thinking abilities

- **Azerbaijan Mathematical Selection Tests Participant**

September 2021 - June 2022

*Azerbaijan TST for famous mathematical olympiads such as IMO, BMO, and JBMO*

- Participated in TST of Azerbaijani team

## REFERENCES

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1. **Kamala Omarova**

Graduate student at UoW, Academic Advisor at ADA university

University Of Washington

Email: kamalo@uw.edu

Phone: +994 50 550 12 56

*Relationship: Advisor, English teacher*

2. **Javanshir Azizov**

Assistant Professor

ADA university

Email: jazizov@ada.edu.az

*Relationship: Mathematics professor*