

Yusif Mehdiyev

+994555418363 | yusifmehdiyev55@gmail.com | ymehdiyev22216@ada.edu.az | 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:** Vector Calculus, Linear Algebra, Elementary Graph Theory, Elementary Number Theory, Probability and Statistics, Real Analysis, Abstract Algebra
- **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

- **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 Mathematics Team 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

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