

Yusif Mehdiyev

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

Azerbaijan, Baku


EDUCATION

- **ADA University** 2024 - Present
Bachelor of Science in Mathematics 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** 2013 - 2024
General Secondary Education 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 Honor's Certificate



EXPERIENCE

- **Teaching assistant in ADA university** February 2025 - Since
Teaching Assistant of Dr. Hasanilzade and Dr. Hajiyev in Linear Algebra Baku, Azerbaijan
 - Reviewed and graded homeworks and exams, assisted the professors in teaching.

PROJECTS

- **Cormat: 3D math software for visualizing mathematical functions from scratch** March 2024 - Present
Tools: C++, Cmake, OpenGL, GLFW, ImGui, GLSL shaders 
 - Developed a 3D math visualization tool from scratch using C++ and OpenGL, enabling users to plot and interact with mathematical functions.
 - Implemented Linear Algebra transformations (e.g., translation, rotation, scaling) to manipulate 3D objects and camera perspectives programmatically.
 - Designed and structured the project using Object-Oriented Programming (OOP) principles for modularity, scalability, and maintainability.
 - Built and managed the project with CMake for organization.



PUBLICATIONS

- **Probability and Statistics notes** March 2024 - Present
Personal notebook in a style of a book for personal purposes 
 - Compiled a comprehensive personal notebook covering Probability Theory, Statistical Inference, and Statistical Models.
 - Explored key concepts such as probability distributions, hypothesis testing, regression analysis, and Bayesian inference, alongside their mathematical foundations.
- **Real Analysis notes** September 2024 - Present
Personal notebook in a style of a book for personal purposes 
 - Created a detailed personal notebook on Real Analysis, covering core topics of the field.
 - Practiced proof-writing techniques to strengthen understanding of abstract concepts and improve problem-solving skills in advanced mathematics.
 - Organized content in a book-like format for personal reference, emphasizing clarity, depth, and accessibility for future review and application.

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 
 - Actively learning and implementing algorithm concepts and data structures (e.g., dynamic programming, graph algorithms, trees, heaps) to solve problems efficiently and competitively.
 - Practicing competitive programming techniques to improve problem-solving speed, optimize code performance, and write clean, efficient solutions.
- **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
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Relationship: Mathematics professor