

<b>ABDUKHOMID NURMATOV</b>	abdukhomid.nurmatov@kaust.edu.sa   +966-54-922-6309 I-5060, KAUST, Thuwal, Saudi Arabia, 23955
<b>Professional Summary</b>	
Accomplished physicist with expertise in computational science, mathematical modeling, and physics education. Skilled in computational analysis, mobile app development, and mentoring international Physics Olympiad teams. Experienced in bridging academic research with industry applications. Recognized for problem-solving, leadership, and strong communication skills.	
<b>Education</b>	
King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia	<i>Expected Graduation Date (12/2028)   GPA 4.00/4.00</i> <i>Graduation Date (06/2024)   GPA 4.00/4.00</i>
• PhD in Applied Mathematics and Computational Science (Active)	
• MS in Applied Mathematics and Computational Science	
Moscow Institute of Physics and Technology (MIPT), Moscow Region, Russia	<i>Graduation Date (07/2016)   GPA 4.72/5.00</i>
BS in Applied Mathematics and Physics	
<b>Professional Experience</b>	
Saudi Aramco Research & Development Center, Dhahran, Saudi Arabia   Intern	<i>Dates Employed (06/2025 - 08/2025)</i>
• Extended a differentiable immersed-boundary solver in JAX to simulate deformable droplets.	
• Implemented penalty-spring and surface-tension forces, enabling elastic-body simulations.	
• Prepared inverse-design routines to control droplet shape via parameters such as stiffness.	
KAUST, Thuwal, Saudi Arabia   Teaching Assistant	<i>Dates Employed (05/2023 - 12/2024)</i>
• AMCS 251: Numerical Linear Algebra	<i>Aug-Dec 2024</i>
• Reinforcement Learning (RL) - KAUST Academy	<i>Jul 2024</i>
• Deep Generative Models, RL, Graph Neural Networks, Computer Vision - KAUST Academy	<i>Jul-Aug 2023</i>
• Probability & Statistics - KAUST Academy	<i>May-Jun 2023</i>
Responsibilities: Led tutorials, graded assignments, and mentored students.	
TRBL "Hotam & PV", Hisor, Tajikistan   Science Teacher & App Developer	<i>Dates Employed (06/2019 - 12/2022)</i>
• Head of the Physics Department and lead science educator.	
• Developed and taught advanced mathematics and physics curricula.	
• Mentored the national physics team for participation in international Olympiads.	
• Developed mobile applications to enhance physics education and collaboration.	
AAAM Essex Inc, Newark, NJ, USA   Assistant Manager	<i>Dates Employed (08/2016 - 04/2019)</i>
• Streamlined business processes and optimized team workflow and productivity.	
• Conducted recruitment, training, and onboarding of new employees.	
MIPT, Moscow Region, Russia   Lab Assistant	<i>Dates Employed (03/2015 - 07/2016)</i>
• Conducted experiments, analyzed data, managed laboratory materials.	
• Provided technical support and troubleshooting for research operations.	
<b>Skills</b>	
<b>Languages:</b> Tajik (native), Russian (advanced), English (advanced)	
<b>Technical:</b> Python, C++, C#, MATLAB, Fortran, Dart, Flutter, LaTeX, Microsoft Office, OriginLab, Ansys	
<b>Certificates &amp; Achievements</b>	
Completed Annual Cyber Security Training - KAUST, Saudi Arabia (2025)	
Completed Social Engineering and Malware Infections - KAUST, Saudi Arabia (2024)	
Participant, 6th Physics of Membrane Processes Workshop - KAUST, Saudi Arabia (2023)	
Participant, 2nd Saudi Youth Sustainability Conference - KAUST, Saudi Arabia (2023)	
Completed Introduction to Ansys CFD - KAUST, Saudi Arabia (2023)	
Participant, IEEE International Conference on Smart Mobility (IEEEISM) - KAUST, Saudi Arabia (2023)	
Leader, National Team of Tajikistan, International Distributed Physics Olympiad (IdPhO) - Russia (2020)	
Letter of Gratitude, International Olympiad Nanotechnology - Breakthrough to the Future - Russia (2020)	
Completed Mastering Quantum Mechanics - MITx (edX, USA, 2018)	
Completed Essential Math for Machine Learning - Microsoft (edX, USA, 2018)	
Completed Viruses & How to Beat Them - Israelx (edX, Israel, 2018)	
Completed Introduction to Artificial Intelligence - Microsoft (edX, USA, 2018)	
Completed Introduction to Python for Data Science - Microsoft (edX, USA, 2018)	
Participant, 43rd International Physics Olympiad (IPhO) - Estonia (2012)	
Participant, 13th Asian Physics Olympiad (APhO) - India (2012)	
Bronze Medal, 7th International Zhabutkov Olympiad in Physics (IZhO) - Kazakhstan (2012)	
Participant, 12th Asian Physics Olympiad (APhO) - Israel (2011)	
Participant, 42nd International Physics Olympiad (IPhO) - Thailand (2011)	
Completed English Language Course - San Francisco Institute of English, USA (2011)	