

<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>		
<b>King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia</b> <ul style="list-style-type: none"><li>PhD in Applied Mathematics and Computational Science (Active)</li><li>MS in Applied Mathematics and Computational Science</li></ul>		<i>Expected Graduation Date (12/2028)   GPA 4.00/4.00</i> <i>Graduation Date (06/2024)   GPA 4.00/4.00</i>
<b>Moscow Institute of Physics and Technology (MIPT), Moscow Region, Russia</b> BS in Applied Mathematics and Physics		<i>Graduation Date (07/2016)   GPA 4.72/5.00</i>
<b>Professional Experience</b>		
<b>Saudi Aramco Research &amp; Development Center, Dhahran, Saudi Arabia   Intern</b> <ul style="list-style-type: none"><li>Extended a differentiable immersed-boundary solver in JAX to simulate deformable droplets.</li><li>Implemented penalty-spring and surface-tension forces, enabling elastic-body simulations.</li><li>Prepared inverse-design routines to control droplet shape via parameters such as stiffness.</li></ul>		<i>Dates Employed (06/2025 - 08/2025)</i>
<b>KAUST, Thuwal, Saudi Arabia   Teaching Assistant</b> <ul style="list-style-type: none"><li>AMCS 251: Numerical Linear Algebra</li><li>Reinforcement Learning (RL) - KAUST Academy</li><li>Deep Generative Models, RL, Graph Neural Networks, Computer Vision - KAUST Academy</li><li>Probability &amp; Statistics - KAUST Academy</li></ul> <i>Responsibilities: Led tutorials, graded assignments, and mentored students.</i>		<i>Dates Employed (05/2023 - 12/2024)</i> <i>Aug-Dec 2024</i> <i>Jul 2024</i> <i>Jul-Aug 2023</i> <i>May-Jun 2023</i>
<b>TRBL "Hotam &amp; PV", Hisor, Tajikistan   Science Teacher &amp; App Developer</b> <ul style="list-style-type: none"><li>Head of the Physics Department and lead science educator.</li><li>Developed and taught advanced mathematics and physics curricula.</li><li>Mentored the national physics team for participation in international Olympiads.</li><li>Developed mobile applications to enhance physics education and collaboration.</li></ul>		<i>Dates Employed (06/2019 - 12/2022)</i>
<b>AAAM Essex Inc, Newark, NJ, USA   Assistant Manager</b> <ul style="list-style-type: none"><li>Streamlined business processes and optimized team workflow and productivity.</li><li>Conducted recruitment, training, and onboarding of new employees.</li></ul>		<i>Dates Employed (08/2016 - 04/2019)</i>
<b>MIPT, Moscow Region, Russia   Lab Assistant</b> <ul style="list-style-type: none"><li>Conducted experiments, analyzed data, managed laboratory materials.</li><li>Provided technical support and troubleshooting for research operations.</li></ul>		<i>Dates Employed (03/2015 - 07/2016)</i>
<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 <i>Annual Cyber Security Training</i> - KAUST, Saudi Arabia (2025) Completed <i>Social Engineering and Malware Infections</i> - KAUST, Saudi Arabia (2024) Participant, <i>6th Physics of Membrane Processes Workshop</i> - KAUST, Saudi Arabia (2023) Participant, <i>2nd Saudi Youth Sustainability Conference</i> - KAUST, Saudi Arabia (2023) Completed <i>Introduction to Ansys CFD</i> - KAUST, Saudi Arabia (2023) Participant, <i>IEEE International Conference on Smart Mobility (IEEEISM)</i> - KAUST, Saudi Arabia (2023) Leader, National Team of Tajikistan, <i>International Distributed Physics Olympiad (IdPhO)</i> - Russia (2020) Letter of Gratitude, International Olympiad <i>Nanotechnology - Breakthrough to the Future</i> - Russia (2020) Completed <i>Mastering Quantum Mechanics</i> - MITx (edX, USA, 2018) Completed <i>Essential Math for Machine Learning</i> - Microsoft (edX, USA, 2018) Completed <i>Viruses &amp; How to Beat Them</i> - Israelx (edX, Israel, 2018) Completed <i>Introduction to Artificial Intelligence</i> - Microsoft (edX, USA, 2018) Completed <i>Introduction to Python for Data Science</i> - Microsoft (edX, USA, 2018) Participant, <i>43rd International Physics Olympiad (IPhO)</i> - Estonia (2012) Participant, <i>13th Asian Physics Olympiad (APhO)</i> - India (2012) Bronze Medal, <i>7th International Zhautykov Olympiad in Physics (IZhO)</i> - Kazakhstan (2012) Participant, <i>12th Asian Physics Olympiad (APhO)</i> - Israel (2011) Participant, <i>42nd International Physics Olympiad (IPhO)</i> - Thailand (2011) Completed <i>English Language Course</i> - San Francisco Institute of English, USA (2011)		