Ismaylov **Timur**

Researcher

About me

Researcher with a Master's in Photonics and experience in computational modeling, machine learning, and data science. Skilled in Python, simulation tools, and 3D modeling. Open to new challenges in science and technology.

personal

Ismaylov Timur
Male
nationality: Uzbekistan
15 August 1997
Married

Areas of specialization

Non-Destructive Testing (NDT) · Machine Learning for Engineering · Computational Photonics · Waveguide Modelling (FDTD)

timsmaylov
timsmaylov

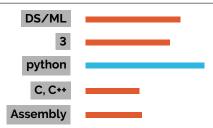## SHORT RESUMÉ

2023–Curr	**Nukus state technical university**
	TEACHING-ASSISTANT · Nukus

I have extensive experience in teaching and mentoring students in programming, machine learning, 3D modeling, and game development. I developed and delivered full-semester courses in "3D Modeling" and "Data Science", focusing on both theoretical foundations and hands-on implementation. These courses were designed to help students build practical skills and apply their knowledge to real-world problems. In addition, I have guided student teams in research and technology competitions, assisting them with project planning, data analysis, and presentation techniques. My mentorship has supported interdisciplinary projects combining AI, engineering, and creative tools like Blender and Unity, helping students achieve impactful results.

SKILLS

Software, Tools	*Jupyter Notebook, PyCharm, VS Code*
Modelling	*Blender, COMSOL, Lumerical*
Soft Skills	*Problem-solving, teamwork, scientific communication, project management, adaptability*

PROGRAMMING

- DS/ML
- 3
- python
- C, C++
- Assembly

EDUCATION

2021–2023	**M.Sc. Photonics and Optoinformatics**
	NRNU MEPHI · Moscow

Study of the efficiency of radiation input and output through a Bragg grating into Si3N4/SiO2 waveguide structures

2017-2021	**B.Sc. Metrology, Standardization and Product Quality Management**
	KSU · Nukus

Improving the accuracy and reliability of nondestructive testing and control results

CERTIFICATES & GRANTS

2025	Diploma in Data Science (PROWEB)
2023	VR Apps on Unity Engine (MEPhI)

LANGUAGES

Uzbek	C2	mother tongue
English	B1	
Russian	C1	

PUBLICATIONS

2025	*Levering Machine Learning For Big Data Analytics: A Strategic Overview*, Tashkent Printing Press.
2024	"Neural Networks In Data Processing Systems", in: *International scientific journal*

PROJECTS

2025-curr	Intelligent systems for detecting financial Anomalies and Fraud.

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