

Artem Podlesnyy

05.12.2000, male
+7 964 723-63-20
a.podlesnyy@rqc.ru

EDUCATION	Master of Science 09.2022 - 05.2024 Moscow Institute of Physics and Technology <i>Applied quantum technologies, Chair of Russian Quantum Center</i> Moscow
	Bachelor of Science 09.2018 - 05.2022 Moscow Institute of Physics and Technology <i>Applied physics and research, Chair of Russian Quantum Center</i> Moscow Bachelor diploma: Ion dynamics in Surface Electrode Traps GPA: 3.44/4.00
WORK EXPERIENCE	Russian Quantum Center 04.2021 - Present Junior Researcher, "Quantum Computation with Cold Ca Ions" group Under supervision of Dr. Kirill Lakhmanskiy
	Suggest Quantum 11.2022 - Present CEO, Founder of start-up Quantum portfolio optimization service
SKILLS	Computer skills Scientific Python: NumPy, SciPy, PennyLane, Qiskit, PyTorch, QuTip, pandas, LAMMPS, Self-developed packages ●●●●● COMSOL ●●○○○ Fusion 360 ●●○○○ Laboratory skills Quantum optics lab skills: optical table, fiber and lasers, fast-changing signals, AOM, cavity, laser stabilization ●●●●○ UHV systems ●●○○○ Cryogenics ●●○○○ Superconducting Single-Photon Detectors ●●○○○ RF Paul Trap ●●●●○ Electric circuitry, PCB ●●○○○ Clean room, microchip manufacturing ●○○○○ Selective Laser Etching ●●○○○ Languages Russian (native), English (C1), Japanese (A2)
INTERNSHIPS	OIST Research Internship Program, Okinawa Institute of Science and Technology, Japan 07.2023 - 10.2023 Optimized SNR for Ca ion in cavity-integrated 3D trap, developed micro-motion compensation equipment for experiment
	MCQST Summer Program, Munich Center for Quantum Science and Technology, Germany 07.2021 Presented a speech during a student conference. Presentation subject: "Charge-insensitive qubit design (transmon)"

SCHOOLS	Lean Startup Entrepreneurial Training Program, OIST and GWU	09.2023 - 10.2023
	Joint acceleration program by OIST, Japan and George Washington University, USA. Performed customer development interviews with clients from 8 countries	
	6th International School on Quantum Technologies, MSU Quantum Technology Centre	02.2023 - 03.2023
	Poster session participant "Parallel coupling of trapped ions in multiple individual wells"	
	Summer school "Introduction to cold atoms and Ions", RQC	07.2021
	Performed laboratory experiments on quantum optics and cold Fermi gasses	
	4th International School on Quantum Technologies, MSU Quantum Technology Centre	11.2021
CERTIFICATES	QHack hackathon on quantum algorithms	02.2023
	Top 10 teams for the project: "Error-Mitigated Quantum and Quantum-Inspired Portfolio Optimization"	
	Michael Gorodetsky Scientific Work Contest	11.2022
	Prizewinner, "Parallel coupling of trapped ions in multiple individual wells"	
	All-Russian Student Olympiad "I am Professional"	05.2022
	Bronze medal among Bachelor students in the "Quantum Technology" section	
	QHack hackathon on quantum algorithms	02.2022
	Solo participant. Top 70 teams in coding challenges	
	64th All-Russian Scientific Conference of MIPT	12.2021
	Third place award in the "Quantum Technology" section. Project subject: "Simulation of Ion dynamics in Surface Electrode Trap"	
PUBLICATIONS	Parallel Coupling of Trapped Ions in Multiple Individual Wells <i>Arxiv preprint</i> A. Podlesnyy, Y. Suleimen, L. Akopyan and K. Lakhmanskiy	11.2022
PATENTS	Topology for reading ultraviolet photons in an external oscillating electric field	applied 10.2022
	Inventors: Artem Podlesnyy, Yelnury Suleimen, Kirill Lakhmanskiy	
	Universal software for the ion dynamics simulation and normal mode calculation in surface electrode traps (Sion)	applied 07.2022
	Inventors: Artem Podlesnyy, Yelnury Suleimen, Kirill Lakhmanskiy	
	Universal software for calculation of the full set of characteristics of a surface electrode trap for one ion	
	Number RU 2023668089 Inventors: Artem Podlesnyy, Yelnury Suleimen, Kirill Lakhmanskiy	applied 02.2022, registered 08.2023
EXTRA-CURRICULAR ACTIVITIES	Chinese tea ceremony master. Experienced rock climber and alpinist. Snorkeling enthusiast	