

Jack Griffiths

Theoretical physicist, data scientist and machine learning expert



Now

Physicist

Origin, Newcastle, United Kingdom (2024–now)

Mova (2024–now) Collaborating on an online Ukrainian language platform. Launching early 2025.

Past

Ph.D. Theoretical Physics

Durham University, United Kingdom (2020–2024)

Thesis: Artificial Intelligence in Physics.

- Developed novel machine learning (ML) methods, algorithms and models for classical and quantum physics problems with demonstrable speed-up over non-ML methods. Languages used: Python, PyTorch and Rust.

Teaching: Foundations of Physics & Maths Workshop

Durham University, United Kingdom (2020–2024)

- Delivered tutorials for 30+ students on classical mechanics, electromagnetism, special relativity, atomic physics, nuclear physics, quantum mechanics, and advanced topics in applied mathematics.

MPhys Master of Physics (First Class Honours)

Newcastle University, United Kingdom (2016–2020)

Dissertation: Finite-temperature simulations of a quantum atomtronic interference device.

Managing director of MINIML Ltd. (2016–2019)

- Principal developer for educational technology products. One product won The Queen's Award for Enterprise (2019). Our products are being used around the world.
- Assisted with successful project management on extremely tight deadlines.
- Liaised with directors of other companies to negotiate contracts and scope of work.



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🇬🇧 English (native)

🇺🇦 Ukrainian (intermediate)

👩‍💻 **Technical skills:** Rust, machine learning, Python, Fortran, Matlab, website design and development (React/Next.js + Vercel), SQL, high-performance computing.

🏆 **Awards:** The Queen's Award for Enterprise, ncl+ Award in Research, Gerard McCartan Memorial Prize for Outstanding MPhys Project, Gerard McCartan Memorial Prize for Outstanding Contribution to the School, Best Poster Prize at International Quantum Fluids and Solids conference 2023.

🎹 **Misc:** I play piano and enjoy classical music. I love to travel and explore the world. Interested in quantum physics, artificial intelligence, and design.