KUBA PERLIN – CV

kubaperlin.me
linkedin.com/in/jakubperlin

EDUCATION

University of Oxford, St John's College · *Oct 2019 – Sep 2020*
Computer Science MSc – **Distinction** · *Oxford, UK*

Courses: machine learning, computational learning theory, probabilistic computation, quantum computation, category theory, game theory

Master's Thesis · *Apr 2020 – Sep 2020*
Rotation invariance in deep neural networks for 3D point cloud processing. · *Oxford Robotics Institute*

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University of Cambridge, Churchill College · *Oct 2016 – Jun 2019*
Computer Science BA – **Triple First** · *Cambridge, UK*

Achievements: Ranked 1st/98 students in 1st year and 3rd/100 in 2nd year.

Bachelor's Dissertation · *Oct 2018 – May 2019*
Alternatives to hand-selected features for morphing of 3D triangle meshes. · *Cambridge University*

WORK EXPERIENCE

DeepMind (Science) – Research Engineer · *Oct 2022 –*
· *London, UK*

Cohere – Machine Learning Engineer · *Aug 2021 –*
Machine Learning Intern · *Jan 2021 – Jul 2021*
Distributed Training of Large Language Models using TPUv4 & JAX. · *Toronto, Canada*

NASA Langley Research Center – Machine Learning Research Intern · *Sep 2020 – Jan 2021*
Deep learning applications in computational fluid dynamics. · *Hampton, VA, USA*

University of Cambridge – Teaching Assistant (a.k.a. Supervisor) · *Cambridge, UK*
Supervising 24 students in 'Introduction to Probability' and 'Complexity Theory'. · *Apr 2020 – May 2020*
Supervising 4 students in 'Discrete Mathematics'. · *Nov 2021 – Dec 2021*

Google (Youtube Ads) – Software Engineering Intern · *Jun 2019 – Sep 2019*
Full-stack development, design, and performance evaluation for internal tools. · *Zürich, Switzerland*

EPFL (École Polytechnique Fédérale de Lausanne) – Research Intern · *Jul 2018 – Sep 2018*
Design & prototyping of a distributed rendering system (Python & ZeroMQ). · *Lausanne, Switzerland*

Moon Collider – Software Development Intern · *Jul 2017 – Sep 2017*
Video game AI development; big C++ codebases. · *Edinburgh, UK*

PUBLICATIONS AND ACTIVITIES

Scalable Training of Language Models using JAX pjit and TPUv4 · *Mar 2022*
Joanna Yoo*, Kuba Perlin*, Siddhartha Rao Kamalakara, João G.M. Araújo

Interlocking Backpropagation: Improving depthwise model-parallelism · *JMLR 2022*
Aidan N. Gomez*, Oscar Key*, Kuba Perlin, Stephen Gou, Nick Frosst, Jeff Dean, Yarin Gal

Google Developer Expert on Machine Learning · *Jun 2022 – Aug 2022*

The 8th Heidelberg Laureate Forum – Young Researcher Attendee · *Sep 2021; online*

Polish Math Olympiad – laureate (tied for 28th place in Poland) · *Apr 2016; Lublin, Poland*

TOOLS

Python, JAX, TPU v4, TensorFlow, PyTorch, NumPy, LaTeX, Linux, Blender, C++