

DOVYDAS JOKSAS

PhD Candidate at UCL

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EDUCATION

PhD in Electronic Engineering

UCL

📅 2018–Ongoing

📍 London

Working on hardware acceleration of neural networks using memristors

BEng Electronic Engineering

UCL

📅 2015–2018

📍 London

Relevant modules: Mathematical Modelling and Analysis, Programming, Numerical Methods, Control Theory

EXPERIENCE

Founder

Ab Initio AI

📅 September 2020–Ongoing

📍 London

Developing intelligent diagnostic tools that aid students' learning

Private Tutor/Volunteer Tutor

Gojimo, Elite IB Tutors, TeamUp, freelance

📅 March 2016 – Ongoing

📍 Worldwide

Tutoring GCSE, A-Level and IB students in mathematics and physics, including volunteering to help pupils from low-income backgrounds

Postgraduate Teaching Assistant

UCL

📅 October 2019–May 2021

📍 London

Taught: Mathematical Modelling and Analysis II

Assessed: Technical Communication, Numerical Methods

Student Researcher

London Centre for Nanotechnology

📅 June–August 2017

📍 London

Modelled surface acoustic waves and analyzed data from low-temperature electron paramagnetic resonance experiments

SELECTED PUBLICATIONS

- D. Joksas *et al.*, “Nonideality-aware training for accurate and robust low-power memristive neural networks,” *Advanced Science*, p. 2 105 784, 2022. DOI: 10.1002/advs.202105784
- D. Joksas and A. Mehonic, “badcrossbar: A Python tool for computing and plotting currents and voltages in passive crossbar arrays,” *SoftwareX*, vol. 12, p. 100 617, 2020. DOI: 10.1016/j.softx.2020.100617
- D. Joksas *et al.*, “Committee machines—a universal method to deal with non-idealities in memristor-based neural networks,” *Nature Communications*, vol. 11, no. 1, 4273, 2020. DOI: 10.1038/s41467-020-18098-0

STRENGTHS

Creative

Problem-solver

Team-player

Hard-working

SKILLS

Writing

Research

Teaching

Machine learning

Data analysis

Visualization

LANGUAGES

Human:

English



Lithuanian



Computer:

Bash



C



Go



LaTeX



MATLAB



Python



AWARDS



Attending Global Young Scientists Summit 2020

Was one of six students nominated by UCL to present research at the summit in Singapore



Cullen Prize 2019

Given to the best research poster presentation by a PhD student in the Electronic and Electrical Engineering department at UCL



Dean's List 2018

Used to recognise top 5% of graduating students of the Engineering faculty at UCL



Didzdvaris Gymnasium IB Alumni Prize 2016

Given to an IB student for one's academic achievements, proactiveness in the community and open-mindedness while volunteering