

DOVYDAS JOKSAS

Founder at RSS Blue, Researcher at UCL

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EXPERIENCE

UK IC Postdoctoral Research Fellow

UCL

📅 October 2022–Present

📍 London

Researching cybersecurity threats to neural networks implemented using analogue devices, like memristors

Founder

RSS Blue

📅 June 2021–Present

📍 London

Podcast hosting focused on modern features and free expression

Postgraduate Teaching Assistant & Workshop Lead

UCL

📅 October 2019–Present

📍 London

Teaching: Mathematical Modelling and Analysis II

Assessment: Technical Communication, Numerical Methods

Private Tutor/Volunteer Tutor

Gojimo, Elite IB Tutors, TeamUp, freelance

📅 March 2016–Present

📍 Worldwide

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

EDUCATION

PhD in Electronic Engineering

UCL

📅 2018–2022

📍 London

Worked 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

SELECTED PUBLICATIONS

- D. Joksas *et al.*, “Nonideality-aware training for accurate and robust low-power memristive neural networks,” *Advanced Science*, vol. 9, no. 17, p. 2105784, 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. 100617, 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



Go



LaTeX



MATLAB



Python



Rust



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