DOVYDAS JOKSAS

Founder at RSS Blue, Researcher at UCL

London, United Kingdom   dovydas.com   @ hello@dovydas.com   ○ joksas   in joksas

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 2022–Present   📍 London

Enabling direct listener payments to podcasters and music artists

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, physics, and computer science, volunteering w/ 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. 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 ●●○○○
Go ●●●●●
LATEX ●●●●○
MATLAB ●●●○○
Python ●●●●●
Rust ●●●○○

AWARDS

🏆 **PhD Thesis Award 2023**
Runner-up for the best PhD thesis in the Electronic and Electrical Engineering department at UCL

🏆 **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