

# DOVYDAS JOKSAS

## PhD Student

📍 London, United Kingdom

🌐 yoshke.org

@ dovydas@yoshke.org

in linkedin.com/in/joksas

github.com/joksas

## EDUCATION

### PhD in Electronic Engineering

UCL

📅 2018–2022

📍 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

### Postgraduate Teaching Assistant

UCL

📅 October 2019 – Ongoing

📍 London

Assessing undergraduate students in Technical Communication and Numerical Methods modules

### Private Tutor

Gojimo, Elite IB Tutors, freelance

📅 March 2016 – Ongoing

📍 Worldwide

Tutoring GCSE, A-Level and IB students in mathematics and physics

### Volunteer Tutor

Team Up

📅 March 2019 – December 2019

📍 London

Taught mathematics to GCSE students from low-income backgrounds

### Student Researcher

London Centre for Nanotechnology

📅 June 2017 – August 2017

📍 London

- Used COMSOL software to model surface acoustic waves on quartz crystal
- Processed and analysed raw data from very low temperature electron paramagnetic resonance experiments

## PUBLICATIONS

- Joksas, D et al. (2020). "Committee machines—a universal method to deal with non-idealities in memristor-based neural networks". In: *Nature Communications* 11, 4273.
- Kenyon, Anthony J. et al. (2019). "The interplay between structure and function in redox-based resistance switching". In: *Faraday Discussions* 213, pp. 151–163.
- Mehonic, Adnan et al. (2019). "Simulation of Inference Accuracy Using Realistic RRAM Devices". In: *Frontiers in Neuroscience* 13, p. 593.

## STRENGTHS

Creative

Problem-solver

Team-player

Hard-working

## SKILLS

Writing

Research

Teaching

Machine learning

Data analysis

Visualization

## LANGUAGES

Human:

English



Lithuanian



Computer:

Bash



C



Java



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