

Agamemnon Krasoulis | CV

✉ agamemnon.krasoulis@gmail.com • 🌐 agamemnonc • in agamemnon-krasoulis
📄 Agamemnon Krasoulis

My work is inspired by the potential of data and technology to improve people's lives. To that end, I strive to develop machine learning solutions for biomedical and healthcare applications. My experience includes domains such as in-silico drug discovery, brain-machine interfaces, upper-limb prosthetics and cochlear implants.

Work experience

Senior Machine Learning Engineer

Deeplab, Athens, Greece

2020–Present

Virtual screening for early-phase drug discovery using graph neural networks (GNNs)

R&D lead; project management (3 ML engineers); research intern supervision (5 trainees); funding acquisition (NVIDIA Accelerator Program ~ €20K); JEDI Billion Molecules against COVID-19 competition (finalist team); dissemination (1 patent filing; 1 manuscript); hands-on research & experimentation (model training & data curation); software development; presentations & engagement with stakeholders.

Research Associate (post-doctoral)

School of Engineering, Newcastle University, UK

2018–2020

Investigation of aspects of motor and machine learning for upper-limb myoelectric prosthesis control

Research Associate (post-doctoral)

School of Informatics, University of Edinburgh, UK

2017–2018

Deep learning for cryptography project

Software Engineer

School of Social and Political Sciences, University of Edinburgh, UK

2013–2016

Assistance with design and software development for fMRI experiments in neuropolitics research

Teaching assistant / Lab demonstrator

School of Informatics, University of Edinburgh, UK

2013–2017

Machine Learning and Pattern Recognition; Probabilistic Modelling and Reasoning; Introductory Applied Machine Learning; Data Mining and Exploration; Neural Computation

Research Assistant

Institute of Sound and Vibration Research (ISVR), University of Southampton, UK

2012

Development of ML algorithms for noise reduction and speech intelligibility enhancement for cochlear implants

Software engineering skills

Advanced: Python (NumPy, SciPy, Pandas, PyTorch, PyTorch Lightning, PyTorch Geometric, TensorFlow, Keras, scikit-learn, Jupyter, RDKit), MATLAB

Intermediate: Bash/Unix

Basic: C/C++, R

Open-source contributions: scikit-learn, seaborn

MLOps: Docker, Google Cloud Platform

Misc: Git/GitHub, CI/CD, L^AT_EX

Education

PhD, Neuroinformatics

School of Informatics, University of Edinburgh, UK (EPSRC/BBSRC/MRC scholarship)

2013–2018

Dissertation: "Machine learning-based dexterous control of hand prostheses"

MSc(Res) Neuroinformatics and Computational Neuroscience

School of Informatics, University of Edinburgh, UK (EPSRC/BBSRC/MRC scholarship)

2012–2013

Dissertation: "Dimensionality reduction for EMG prediction of upper-limb activity in freely-behaving primates"
Distinction; Ranking – 1st in class (School prize for top performance)

Diploma Electrical and Computer Engineering

School of Engineering, University of Patras, Greece

2004–2010

Dissertation: "Statistical analysis of audio signals under reverberant conditions"
Grade – 8.04/10; Ranking – 3rd in class

* For a full list of publications refer to google-scholar link on top of page.