Agamemnon Krasoulis | CV

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in agamemnon-krasoulis • ⚏ Agamemnon Krasoulis

My work is inspired by the potential of data and technology to improve people's lives. I strive to develop machine learning solutions for biomedical and healthcare applications currently focusing on in-silico drug discovery and neuroprosthetics.

Work experience

Senior Data Scientist & Bioinformatician
Intelligencia AI, Athens, Greece   *2023–*
Molecular property (ADMET) prediction; clinical trial outcome prediction; cancer treatment response prediction; biomedical knowledge graph

Machine Learning Researcher
Insilico Medicine, UAE (Remote)   *2023*
Molecular property (ADMET) prediction; gradient boosting; recurrent neural networks (RNNs); uncertainty quantification; software design

Senior Machine Learning Engineer / Tech Lead
Deeplab, Athens, Greece   *2020–2022*
Virtual screening for early-phase drug discovery with graph neural networks (GNNs)
R&D lead; project management (2 ML engineers); research intern supervision (5 trainees); funding acquisition (NVIDIA Accelerator Program $\sim$ €20K); JEDI Billion Molecules against COVID-19 competition (finalist team); dissemination (1 patent filing; 2 publications); research & experimentation (model training & data curation); software development; presentations & engagement with stakeholders
EEG-based brain-computer interfacing (BCI) with deep neural networks
R&D lead; algo team engineering management (4 ML engineers); project management; software design and architecture

Research Associate (post-doctoral)
School of Engineering, Newcastle University, UK   *2018–2020*
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 applied to cryptography

Software Engineer
School of Social and Political Sciences, University of Edinburgh, UK   *2013–2016*
Software design & development for fMRI experiments in neuropolitics research

Teaching assistant / Lab demonstrator
School of Informatics, University of Edinburgh, UK   *2013–2017*
ML & Pattern Recognition; Probabilistic Modelling & Reasoning; Introductory Applied ML; Data Mining & Exploration; Neural Computation

Research Assistant
Institute of Sound and Vibration Research (ISVR), University of Southampton, UK   *2012*
ML algorithms for noise reduction and speech intelligibility enhancement for cochlear implant users

Software engineering

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

Intermediate: Linux/Bash, PostgreSQL, Git, Docker, CI, LaTeX
Basic: C/C++, R, MongoDB
Open-source contributions: scikit-learn, seaborn

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.