Ignatii Dubyshkin | CV

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A postgraduate student who looks for inspiration in human brain and uses it to look for new instruments and technologies in various adjacent areasfor further transfer back into the neuroscience field.



Experience

Samsung R&D Institute Russia

Biometric Algorithm Lab
Research Engineer

Moscow, Russia January 2019–Now

Developing biometric algorithms and solutions for Samsung mobile devices: primary deep learning and computer vision based.

Centre for Bioelectric Interfaces

Moscow, Russia

Research laboratory, part of Higher School of Economics Research intern November 2017-October 2018

- Search, implementation and enhancement of classical algorithms for preprocessing of brain related signal: ICA(various types), wavelet based denoising, filter bank common spatial pattern.

DevOps-Engineer

 Deploy and support of a private computational cluster and cloud (x8 Nvidia 1080Ti) based on dockerized services: NextCloud, Jupyterhub, Collobora, MatterMost and complex built jupyter kernels.

Neurocentre, LTD Moscow, Russia

A startup in the area of neuroscience dealing in biofeedback and biomonitoring Software Engineer

June 2017-June 2018

- Develop software for multichannel signal classification (deep learning based).
- Search and adapt new technological devices and models, analyze their applicability for the business interests of the company.
- Test the portable devices, ranging from heartbeat monitor to EEG and tDCS.

Institute of Higher Nervous Activity

Moscow, Russia

Neuroscience research institute, part of Russian Academy of Sciences

June 2014–January 2016

- Produced and published a research titled "The Use of Machine Learning Methods for Identification of the Efficient Learning State in the Neurofeedback Paradigm".
- Won and fulfilled a grant in a team of 8 for the work on a subject of "Neurocorrelates of sensor memory reactivation during sleep in the dynamics of long-term background correlations of electronic brain activity and auditory evoked potentials".

Education

Academic Qualifications.....

Lomonosov Moscow State University, Faculty of Biology

Moscow

Postgraduate student in the Department of Human and Animal Physiology Laboratory of Neurophysiology and Neurocomputer Interfaces.

2018-Now

I am working on the deep learning based brain computer interfaces, especially focusing on constructing architecture(work with multichannel time series) and analyzing their behavior(feature reverse engineering).

Higher School of Economics

Moscow

Master in Psychology Cognitive Science

2016-2018

- Report for Neuroadaptive Technology Conference, Berlin, 2017, on the subject of "Neurophysiological Correlates Of Efficient Learning In The Neurofeedback Paradigm".
- Produced a research on the theme "Advanced Signal Processing and Machine Learning Techniques for Unraveling Relations Between Various Functional Brain Imaging Modalities."

Moscow Technical University of Communication and Computer Science

Moscow 2012–2016

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Bachelor in Applied Mathematics (Honours)

With focus on Digital Signal Processing, Probability Theory and Machine Learning.

Coursera.....

Deep Learning (specialization - 5 courses; deeplearning.ai)

Medical Neuroscience (Duke University)

Algorithmic Toolbox (University of California San Diego & Higher School of Economics)

Data Structures (University of California San Diego & Higher School of Economics)

Average Grade Achieved: 100.0% Grade Achieved: 99.7% Grade Achieved: 100.0%

Grade Achieved: 100.0%

Technical and Personal skills

o Platforms: Linux, Docker, CUDA, QT

Programming Languages: Proficient in: Python, C++, LATEX;
 Python Stack: PyTorch, Cython, TensorFLow, Ignite, OpenCV, Scipy, Pandas Also basic ability with: Bash, JavaScript, C#

- Skills: Deep Learning, Neuroimaging, Reinforcement Learning, Computer Vision, Digital Signal Processing, Biometric.
- Languages: Russian (Native speaker), English (Advanced)

Interests and extra-curricular activity

- In mid-2017, I subscribed to the daily RSS feed from arxiv.org (cs.CV, cs.AI, cs.NE, cs.HC). Now this is my main source of news and inspiration.
- o In 2015 I earned a scholarship of Huawei "For the achievements in the academic and professional areas".
- Other intersests include professional dancing, especially ballroom and latina, which I consider as main active hobby and guitar, which I am self-taught.