

Amir Safiullin

male, 23 years

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Education

- 2017 **National Research University "HSE", Russia**
MSc degree in Data Science, graduate with distinction, GPA 9.07 (of 10)
- 2015 **National Research Nuclear University "MEPhI", Russia**
Bachelor's degree in Applied Mathematics and Computer Science, GPA 4.1 (of 5)

Research Experience

- 5.17 - now **Research Intern** (Center for Computational Data-Intensive Science and Engineering), **Skolkovo Institute of Science and Technology**, Moscow
 - R&D of different algorithmic pipelines for segmentation, classification tasks using deep learning models on magnetic resonance imaging data (Python, PyTorch, Docker, Git, Linux)
- 5.17 - now **Junior researcher** (Sector 10.3: Data Analysis in Neuro Science), **Institute for Information Transmission Problems (IITP RAS)**, Moscow
- 1.17 - 5.17 **Research Intern** (Sector 10.3: Data Analysis in Neuro Science), **Institute for Information Transmission Problems (IITP RAS)**, Moscow
 - R&D (algorithmic pipeline on MRI and CT: data preprocessing, Deep Learning for disease prediction);
 - Preparing and assistance in preparation of academic papers based on research results, participating at conferences;
 - Supervising bachelor students in developing deep learning algorithms for biomedical imaging. (Python, NiBabel, Lasagne, NumPy, Docker, DICOM, Freesurfer, FSL, Git, Linux)

Skills

- Specializations Machine Learning, Programming, Research, Data Science, Algorithms
- Programming **Primary:** Python **Familiar:** C#, Bash, SQL, Java
- Frameworks & Libs Python scientific stack (NumPy, SciPy, Pandas, Scikit-Learn, Matplotlib, XGBoost), Python Deep Learning frameworks (Theano/Lasagne, PyTorch)
- IDE's PyCharm, Jupyter, MS Visual Studio
- Technologies Docker, Git

- Memberships **Neuroimaging machine learning group** (<http://neuro.ml>)
(NRU HSE / IITP RAS Sector 10.3: Data Analysis in Neuro Science).
(9.2015 - now)
Developing algorithms for Machine Learning on brain network graphs, Deep Learning on brain MRI (for predicting Alzheimer's Disease, lesion segmentation) and on lungs CT (cancer prediction).
- Conferences **Participated in ISBI'17 conference** Melbourne, Australia
oral talk on residual and plain Convolutional Neural Networks
in brain disease classification task. (<http://biomedicalimaging.org/2017/>)
Participated in ITAS'16 conference St. Petersburg, Russia
poster presentation on discriminative fusion model. (<http://itas2016.iitp.ru>)

Publications

- Conference proceedings
- *Residual and Plain Convolutional Neural Networks for 3D Brain MRI Classification / ISBI conference, p.835-838, 2017, indexed by scopus (eng)*
 - *Fusion of different variants of structural brain networks for classification between pathology and norm / ITAS conference proceedings, p. 256-263, 2016 (russian)*
 - *Design and development of system for interactive visual analyzing of multidimensional data / GraphiCon'15 conference proceedings, p. 227-231, 2015 (russian)*
 - *Interactive visual analysing of multidimensional data / GraphiCon'14 conference proceedings, p. 51-53, 2014 (russian)*
- Publications in journals
- *Methods for creation and analysis of generalized digital images and their application in anthropology / Scientific Visualization, 2015, indexed by scopus (eng)*
 - *Development of interactive 2D-projection method for classification of multidimensional data / Scientific Visualization, 2015, indexed by scopus (russian)*
 - *Development of a system for analyzing of multidimensional data / Scientific Visualization, 2014, indexed by scopus (russian)*

Software Registrations and Patents

- FIPS registered software: "Conducting image database automation software and analysis of the similarities and differences of images". (№ 2015616627)