

Shamil Iakubov : Email : yakubov.sha@gmail.com

Data Scientist, researcher, numerical modeler.

EXPERIENCE

- **shmyak.ai**

Data scientist

2020-Now

I have developed and deployed several spot market cryptocurrencies trading bots ([a demo bot](#)). The different implementations are based on various reinforcement learning algorithms. Other projects have included the implementation of custom reinforcement learning training loops for fine grained learning control, as well as the development of custom learning environments using Unity.

- **Helmholtz-Zentrum**

Geesthacht, Germany

Researcher

2017 - 2020

I have developed and applied supervised and unsupervised machine learning algorithms to optimize oceanic [models](#). Published 4 peer-reviewed articles, 2 preprints, and 2 interactive jupyter notebook studies.

- **Institute of Oceanology**

Moscow, Russia

Research engineer

2014 - 2017

I was part of a team studying and developing models of the Arctic ecosystem. My role was to develop [a diffusion-advection model](#) of solutes and particulates transport in the ocean. I have also studied ocean waves using signal processing (Fourier, Wavelet transforms). Published 5 peer-reviewed articles.

PROGRAMMING SKILLS

- **Languages:** Python (Tensorflow, Keras, PyTorch, Numpy, Pandas, RLLib, tf-agents), Fortran, C#, MatLab
- **Technologies:** Ray, Unity, Unity-ML, Jupyter Notebook, GCS, CMake

MACHINE LEARNING AWARDS

- **Top 2% solution in the Featured Simulation Kaggle Competition "Lux AI":** Ranked 19th out of 1186 teams as a solo participant ([team shmyak](#)). The solution is based on imitation and distributed reinforcement learning.

PUBLICATIONS

- [A google scholar profile.](#)

EDUCATION

- **Moscow State University**

Moscow, Russia

Specialist, Oceanography

2003 - 2008

Online courses: [Deep Learning specialization](#), [Machine Learning](#), [Bayesian Statistics](#).