

**Shamil Iakubov** : Email : [yakubov.sha@gmail.com](mailto:yakubov.sha@gmail.com)

A Data Scientist with extensive experience in research, optimization, and numerical modeling.

## EXPERIENCE

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- **shmyak.ai**

*Data scientist*

*2020-Now*

Cryptocurrencies spot market automated trading.

- 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 graded learning control.
- I 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

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- **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

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- **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

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- [A google scholar profile.](#)

## EDUCATION

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- **Moscow State University**

Moscow, Russia

*Specialist, Oceanography*

*2003 - 2008*

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