

Sergei Bogdanov

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EDUCATION

Moscow Institute of Physics and Technology

GPA: 4.7/5

Bachelor of Applied Mathematics and Computer Science, Minor in Machine Learning

Sep. 2018 – Aug 2022

Yandex Data Analysis Department

Applied statistics, ML, Computer Vision, NLP, Reinforcement Learning, Python, GO

Jan. 2021 – Aug 2022

School №2097 with advanced Math and Computer Science

GPA: 5/5

Golden medalist

Sep. 2008 – Aug 2018

TECHNICAL SKILLS

Languages : Python, Java, GO, C++, C, Javascript

Distributed systems and Databases : Hadoop, Hive, Spark, PostgreSQL.

Others: Cuda, MPI, CSS, HTML, React

Programming skills: Multithreading, Distributed systems, Advanced algorithms and Object Oriented Programming

English: C1, German: A2

WORK EXPERIENCE

Researcher Data Scientist (CV, Computer Vision)

Oct. 2020 – Present

MIPT Laboratory, Face biometric department

- Developed **Face Coverage Estimator** which predicts the fraction of the facial features lost due to face being overlapped by objects. Model is **lightweight** and has **several working modes** available.
- Increased Face Detection **MAP from 0.68 to 0.82** on Masked Faces
- Increased Face Identification **TPR from 0.09 to 0.99** with FPR=1e-3 on Masked Faces, **paper in progress**
- Gathered unbiased dataset of masked faces with more than 25k images with different mask properties marked
- Developed **light classifier with ROC AUC 0.999**

Researcher Data Scientist (NLP, Natural Language Processing)

Jul. 2020 – Sep. 2020

Jetbrains, IntelliJ

- **Researched graph models'** usage for Natural Language Processing Tasks
- Responsible for method name generation task. **My model is 5% better than Code2Vec model and comparable to Code2Seq model** with disabled Attention (my model didn't have an attention mechanism too)
- Responsible for Code-SearchNet task. **Top-20% out of all participants**
- Developed Abstract Syntax Tree vertex classification system which **covers more than 98% of all possible cases with extremely low memory usage**. My algorithm is **8 times more memory-efficient** than simple greedy approach and shows **10% better coverage** on bigger dictionary sizes.

OLYMPIADS

Informatics: Bauman Moscow State Technical University Informatics Olympiad **Absolute winner**, Moscow State University Informatics Olympiad **Top-6%**, ITMO Informatics Olympiad **Double Awardee**, All Russian Informatics Olympiad **Top-5%**

Mathematics: Moscow State University Math Olympiad **Awardee**, Financial University under the Government of the Russian Federation Math Olympiad **Awardee**.

ACTIVITIES

- Gave a **talk** reviewing COVID-19 impact on face-reliable models. **Reviewed** existing methods and **proposed** one new method fixing arisen issues.
- **Contributor** to face alignment library. My pull request fixed existing batching issue in the blazeface detector.
- Participant of 2019 **Summer School by Russian Academy of Artificial Intelligence** in MIPT.
- **Volunteer** in application committee in 2019 and in local orphanage in 2018
- Participant in a university **debate club**
- In my free time I **develop personal commercial project**, play guitar and work on my long-distance running skills