

Natalia Soboleva

COMPUTER SCIENCE STUDENT · PATH PLANNING RESEARCH INTERN · MACHINE LEARNING ENTHUSIAST

☎ +7 (916)-312-52-58 | ✉ n.sob55@gmail.com | 📱 nasoboleva

Experience

ISA RAS (Institute for Systems Analysis of Russian Academy of Sciences)

Moscow, Russia

DYNAMIC INTELLIGENT SYSTEMS LAB, RESEARCH INTERN

Sept. 2017 - PRESENT

- Taking part in research projects on path planning for autonomous intelligent agents.
- Implementing different path finders (A*, LPA*, D*lite, etc.) in C++ (📁 PathPlanning).

HSE (National Research University Higher School of Economic)

Moscow, Russia

LABORATORY OF METHODS FOR BIG DATA ANALYSIS, STUDENT-MEMBER

Sept. 2017 - PRESENT

- Taking part in research project on EEG emotion recognition
- Implementing deep learning techniques (Autoencoders, CNN, RNN) for EEG emotion recognition.

FACULTY OF COMPUTER SCIENCE TEACHING ASSISTANT

Jan. 2018 - PRESENT

- Providing assistant in terms of preparing lesson outlines.
- Assisting in grading students' papers and homework assignments.

Exactpro Systems

Moscow, Russia

SOFTWARE ENGINEER SUMMER INTERN

Jul. 2016 - Aug. 2016

- Implemented bug-report classifier, based on logistic regression with additional solutions for categorical variables.

Publications

eLIAN: Enhanced Algorithm for Angle-Constrained Path Finding

Moscow, Russia

ANDREYCHUK A., SOBOLEVA N., YAKOVLEV K.

Sept. 2018

In: Kuznetsov S., Osipov G., Stefanuk V. (eds) Artificial Intelligence. RCAI 2018. Communications in Computer and Information Science, vol 934. Springer, Cham

LIAN Algorithm Modifications

Rostov, Russia

SOBOLEVA N., YAKOVLEV K.

June. 2018

In: Proceedings of the fifth Russian Scientific Conference of Young Scientists with International Participation «Informatics, Control and Systems Analysis»

Education and Trainings

HSE (National Research University Higher School of Economics)

Moscow, Russia

B.S. IN COMPUTER SCIENCE, GRADUATION DATE: 2019

Sept. 2015 - PRESENT

- **Major Courses:** Algorithms and Data Structures, Machine Learning, Operating Systems, Applied Statistical Analysis, Convex Optimization

ICAPS 2018: International Conference on Planning and Scheduling

Delft, The Netherlands

ICAPS SUMMER SCHOOL

Jun. 2018

Summer school on MDPs, Reinforcement Learning and Classical planning

Summer Coding School

Kostroma, Russia

BASE COURSE IN ALGORITHMS AND DATA STRUCTURES

Jun. 2014

- **Languages:** Python

Skills and Competences

Languages English, German, Russian

Programming C/C++, Python, C#, Git, LaTeX, SQL

Additional Information Member of creative dancers association Prefuze