

SERGEI VOLODIN

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EDUCATION

École Polytechnique Fédérale de Lausanne

Sep 2017 –

MSc in Computer Science *Lausanne, Switzerland*

- Relevant courses: Machine Learning, Software Engineering, Unsupervised and Reinforcement Learning in Neural Networks, Biological modeling of neural networks, Random graph theory, Functional Programming, Set Theory
- GPA: **5.61**/6.00

Moscow Institute of Physics and Technology

Sep 2012 – Jun 2017

BSc in Computer Science *Moscow, Russia*

- Relevant courses: Machine Learning (intro), Algorithms and Data Structures, Convex Optimization, Random Processes, Functional Analysis
- GPA: **4.84**/5.00

RESEARCH INTERESTS


1. Artificial Intelligence; Machine Learning
2. Mathematical Optimization
3. Robotics

RESEARCH EXPERIENCE

EPFL, CHILI lab

Sep 2017 – present


Research Assistant *Lausanne, Switzerland*

- Created  a library for seamless augmented reality using OpenCV and Qt
- Designed learning activities involving augmented reality and robots

Skoltech, Energy Systems

Sep 2016 – Jul 2017

Research Intern *Moscow, Russia*

- Examined in MATLAB the structure of the set of boundary nonconvexities of an image of a quadratic map
- Designed and implemented  the CAQM library which gives approximate solutions to a few problems involving quadratic maps


MIPT, Theoretical Mechanics dpt.

Oct 2012 – Feb 2013





Technician *Moscow, Russia*

- Designed and implemented numerical simulations for Euler's rotation equations
- Checked soundness of the approximation using symbolic computations in Wolfram Mathematica

PUBLICATIONS

Petrov A., Volodin S.  Janibekov's effect and the laws of mechanics. Doklady Akademii Nauk, 2013.

CONFERENCES

-  Information Technologies and Systems (Saint-Petersburg, Repino, 2016), *Speaker*
-  DeepBayes school on Bayesian methods in Deep Learning (Moscow, 2017), *participant*
-  P.A.I.S.S. (AI Summer School) (INRIA Grenoble, 2018), *participant*,  *selected to receive financial help*

SKILLS

Scientific programming: Keras, TensorFlow, Theano, scikit-learn, MATLAB, Mathematica, R



Languages: English (TOEFL iBT 112/120), French (beginner), Russian (native)

Programming: C/C++, Python, AVR C++, Scala, Java, nasm



Frameworks: Qt/QML, Django, Android Studio

Environment: Git, Bash, Debian Linux

SCHOLARSHIPS

-  Research Scholars at EPFL CHILI Lab (2017)
-  Abramov Fund's, for excellent grades (2014)

OLYMPIADS AND HACKATHONS




-  DeepHack.RL hackathon (Deep RL for Atari games), MIPT, Moscow, Russia, 2017.  4th place.

PROJECTS

TechnoWorks

2012 – 2015

Quadcopter stabilization project

- Developed  an algorithm in C++ for stabilization of a quadcopter drone
- Conducted the analysis of launches to improve flying quality
- Results were  published in the Habrahabr CS blog
- Managed the  community page at a social network



WORK EXPERIENCE

EscapeControl

Jul 2015 – Feb 2016

C++, AVR, Linux

Moscow, Russia

- Created a startup selling software&hardware  framework for real-world escape games
- Created  system architecture for the real-world escape room games
- Managed a team of two web developers
- More than fifteen solutions sold, currently running in different countries

VOLUNTEERING

Anti-corruption foundation

2015 – 2017

Moscow, Russia

- Door-to-door campaign
- Street volunteer
- Rally participant

HOBBY

Running, Snowboarding