

SERGEI VOLODIN

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1026 Échandens, Canton of Vaud, Switzerland

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