

SERGEI VOLODIN

sergei.volodin@epfl.ch    +41 78 732 01 34
Route de la Chocolatière 29 A / 009,
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, 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*

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