# Curriculum Vitae

## Dmitrii Podoprikhin

## Contact information

119991 Russia, Moscow, Leninskie gory 1, apt. 1866l
e-mail: podoprikhindmitry@gmail.com
tel.: +7-916-772-96-44

## Objective

I am a Ph. D. student in Mathematics and I'm looking for a research-oriented internship in machine learning, software engineering or related fields for summer-autumn 2017.
Fields of interest: machine learning, deep learning, graphical models, image recognition, computer vision.

## Work experience

| | |
|---|---|
| **Researcher** at Yandex.Research department in Yandex LLC<br>Tensor factorization based compression of deep convolutional neural networks;<br>Word Sense Disambiguation analysis and implementation based on word2vec | September, 2016 — present |
| **Junior Engineer** at the Algorithm Lab in Samsung R&D Institute Rus<br>Added RBM to deep learning framework https://velesnet.ml | October, 2014 — June, 2015 |
| **Intern** at the Algorithm Lab in Samsung R&D Institute Rus<br>Object detection framework using neural networks | July, 2014 — August, 2014 |

## Teaching experience

| | |
|---|---|
| **Teaching assistant** for Bayesian Methods in Machine Learning<br>- at Yandex School of Data Analysis;<br>- at faculty of Computational Mathematics and Cybernetics, Moscow State University | September, 2016 — present |
| **Teaching assistant** for Probabilistic Graphical Models at Skolkovo Institute of Science and Technology | March, 2016 — May, 2016 |
| **Teaching assistant** for Bayesian Methods in Machine Learning at Skolkovo Institute of Science and Technology | January, 2016 — March, 2016 |

## Education

- M. V. Lomonosov Moscow State University (2010 — 2015)
  Speciality (Major): Applied Mathematics and Computer Science
  Faculty: Computational Mathematics and Cybernetics
  Department: Mathematical Methods of Forecasting (2012 – 2015)
  GPA: 5.0 / 5.0, **Diploma with Highest Honors**
- Ph. D. student
  M. V. Lomonosov Moscow State University (2015 — present)
  Faculty: Faculty of Mechanics and Mathematics
  Department: General Topology
  Topic of research: Fixed points of mappings in ordered sets

## Skills

- key programming languages: C++, C, MATLAB, Python
- familiar with SQL, MapReduce; R, MASM, QT and OpenGL
- implementation of machine learning and image processing algorithms and various numerical methods
- experience with external libraries: Boost, Liblinear; MatConvNet, TensorFlow; Amazon Cloud Computing Services

## Grants of Russian Foundation for Basic Research

- Type: «Mobility of Young Scientists»
  # 15-31-20596 Development of new deep learning methods for problems of learning with big data
  Duration: 2 years, 2015 — 2016
- Type: initiative scientific projects carried out by small groups of scientists
  # 13-01-00751 Relational approach to recognition: theory and applications
  Duration: 3 years, 2013 — 2015

## Selected Publications

- *Novikov A., Podoprikhin D., Osokin A., Vetrov D.* Tensorizing Neural Networks // NIPS — 2015. — pp. 442-450
- *Garipov T., Podoprikhin D., Novikov A., Vetrov D.* Ultimate tensorization: convolutions and FC alike // NIPS workshop on Learning with Tensors: Why Now and How? — 2016.
- *Fomenko T. N., Podoprikhin D. A.* Fixed points and coincidences of mappings of partially ordered sets // Journal of Fixed Point Theory and Applications. DOI: 10.1007/s11784-016-0327-7
- *Fomenko T. N., Podoprikhin D. A.* Common fixed points and coincidences of mapping families on partially ordered sets // Topology and Application (in print).
- *Fomenko T. N., Podoprikhin D. A.* About coincidences of family of mappings of ordered sets // Doklady Mathematics (in print).

6 more publications available in attachment upon request.