
Education

- 2018–present **Ph.D. in Applied Mathematics, Inria Grenoble Rhône-Alpes & University Grenoble-Alpes, France,**
Supervisors: [Julyan Arbel](#), [Jakob Verbeek](#).
Bayesian analysis of deep learning: methodology and theory
- 2017–2019 **Msc. in Applied Mathematics, Moscow Institute of Physics and Technology, Russia.**
Department of Control and Applied Mathematics.
GPA: 5.0/5.0 (8.7/10), ranking top – 10%
- 2017–2018 **Msc. in Industrial and Applied Mathematics, Grenoble Institute of Technology, France.**
École Ensimag.
GPA: 15.2/20, ranking top – 10%
- 2013–2017 **Bsc. in Applied Mathematics and Physics, Moscow Institute of Physics and Technology, Russia.**
Department of Control and Applied Mathematics, with honors.
GPA: 4.9/5.0 (8.7/10), ranking top – 10%

Work experience

- January–July 2018 **Internship, Inria Grenoble - Rhône-Alpes,** Mistis team with [Julyan Arbel](#), [Pablo Mesejo](#).
Distributional properties of Bayesian deep neural networks
- September 2016–
January 2017 **Research project, Moscow Institute of Physics and Technology,** with Prof. [Vadim Strijov](#).
Multitask regression in time series forecasting, granted, published
- January–July 2016 **Research project, Moscow Institute of Physics and Technology,** with Prof. [Vadim Strijov](#).
Multitask classification for ligand receptor bindings, granted, published

Papers

Preprints

- 2019 **Vladimirova M., Arbel J.** Sub-Weibull distributions: generalizing sub-Gaussian and sub-Exponential properties to heavier-tailed distributions, arXiv preprint: 1905.04955, 2019, [[arXiv text](#)].

Conference publications

- 2019 **Vladimirova M., Arbel J., Mesejo-Santiago, P.** Understanding priors in Bayesian neural networks at the unit level, **International Conference on Machine Learning**, 2019, [[arXiv text](#)].
- 2017 **Vladimirova M., Isachenko R., Strijov V.** Dimensionality reduction for time series decoding and forecasting problems, **DesTech Proceedings**, 2018, [[text](#)].
- 2016 **Vladimirova M., Popova M.** Bagging of Neural Networks in Multitask Classification of Biological Activity for Nuclear Receptors (in russian), **Journal of Machine Learning and Data Analysis**, 2(3):349-363, 2016.
A model to predict whether the ligand binds to a specific nuclear receptor.

Workshops

- 2018 **Vladimirova M., Arbel J., Mesejo-Santiago, P.** Bayesian neural networks become heavier-tailed with depth, **NeurIPS Bayesian Deep Learning workshop**, 2018, [[text](#)].
- Vladimirova M., Arbel J., Mesejo-Santiago, P.** Bayesian neural network priors at the level of units, **Advances in Approximate Bayesian Inference symposium**, co-located with NeurIPS conference, 2018, [[text](#)].

Conferences and Seminars

- 3-5 October 2019 **PAISS: AI Summer School, Paris, France,** poster.
- 4 July 2019 **Machine Learning Reading Group, Grenoble, France,** invited talk.
- 23-28 June 2019 **BNP'12 Conference, Oxford, UK,** poster with best poster award.
- 9-14 June 2019 **ICML'19 Conference, Long Beach, USA,** poster.
- 3-6 June 2019 **Science Week, Grenoble, France,** poster.
- 15-17 May 2019 **CASI'19 Conference, Dublin, Ireland,** contributed talk.
- 4-5 April 2019 **Statlearn'19 Workshop, Grenoble, France,** poster.

- 19-22 March 2019 **YES X: Understanding Deep Learning Workshop**, *Eindhoven, Netherlands*, contributed talk, [\[slides\]](#).
- 14 March 2019 **PhD Student Seminar**, *Grenoble, France*, invited talk.
- 22-26 October 2018 **Masterclass in Bayesian Statistics**, *CIRM Marseille Luminy, France*, research school.
- 8-12 October 2018 **12th Intelligent Data Processing Conference**, *Gaeta, Italy*, contributed talk.
- 21-26 November 2016 **59th MIPT Scientific Conference**, *Moscow, Russia*, contributed talk.
- 10-14 October 2016 **11th Intelligent Data Processing Conference**, *Barcelona, Spain*, contributed talk.

Reviewing

- Conference** International Conference on Learning Representations 2020
- Workshops** Bayesian Deep Learning NeurIPS Workshop 2019
- Symposium on Advances in Approximate Bayesian Inference 2019

Awards and Honors

- 2019 **CNRS Mobility Project Grant**, €1500.
- 2019 **IDEX Project Grant**, €3200.
- 2019 **BNP 2019 Best Poster Award**.
- 2019 **YES X: Understanding Deep Learning Workshop**, *travel support*.
- 2018 **Masterclass in Bayesian Statistics**, *travel support*.
- 2017–2018 **IDEX Master Scholarship**.
- 2016–2017 **High Government Academic Scholarship**, *for scientific achievements*.
Distributed every semester among top-10% students (4-6 year) of the russian university
- 2016–2017 **Russian Foundation for Basic Research Grant**.
16-37-00488 Algorithms for constructing neural networks as a superposition of universal models
- 2014–2015 **Abramov Fund Scholarship**, *for learning progress and achievements*.
Distributed every semester among top-10% students (1-3 year) of MIPT
- 2013 **2nd prize at MIPT Mathematics Olympiad**, **3rd prize at MIPT Physics Olympiad**.

Skills

Scientific: Bayesian statistics, neural networks, optimization
Computer: Python (including data science, neural networks specific and optimization libraries), R, Matlab, L^AT_EX, Transact-SQL
Languages: Russian (native), English (fluent), French (B2), German (A2)

Activities

Communication skills: numerous science olympiads organiser, member of a student committee
Music: piano (music school diploma with honors), ukulele
Sport: darts (MIPT team ex-member), soccer (MIPT women team ex-member), hiking, running, table tennis