

Tatiana Shpakova

📍 2 rue Simone Iff, 75012, Paris, France
☎ +33 760953457
✉ tatiana.shpakova@inria.fr
🌐 linkedin.com/pub/tatiana-shpakova/86/a89/613

EDUCATION

- 2015 -
- 2019 **INRIA Paris - École normale supérieure d'Ulm**
PHD IN MACHINE LEARNING UNDER SUPERVISION OF FRANCIS BACH
- 2013 -
- 2015 **Yandex School of Data Analysis**
DEPARTMENT: COMPUTER SCIENCE
- 2009 -
- 2015 **Moscow Institute of Physics and Technology**
MSC, BSC IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

PUBLICATIONS

- 2018 "Marginal Weighted Maximum Log-likelihood for Efficient Learning of Perturb-and-Map models"
In Proceedings of the Conference on Uncertainty in Artificial Intelligence 2018 (UAI)
- 2016 "Parameter Learning for Log-supermodular Distributions"
In Advances in Neural Information Processing Systems (NIPS)

TALKS & WORKSHOPS

- JUNE 2017 Poster at **SPARS** workshop
- FEBRUARY 2017 Video "**Thesis in 180 seconds**"
- DECEMBER 2016 Talk at **Second Christmas Colloquium** on Computer Vision, Skoltech, Moscow
- DECEMBER 2016 Poster at **Women in Machine Learning** Workshop, Barcelona
- APRIL 2016 Poster at **Spring School** on Sparse Representations and Compressed Sensing, Ilmenau

INTERNSHIP EXPERIENCE

JANUARY 2018 – MARCH 2018

Sancare, Paris, France
Data Scientist Intern

Applied my research results to the structured problem of medical data. The problem of interest was multilabel classification.

JUNE 2017 – AUGUST 2017

University of Edinburgh, Scotland, UK
Research Visit

Visited the lab of Mike Davies and collaborated with his team applying ideas from approximate parameter learning and inference to the area of signal processing and mainly to wavelets theory. This work is in progress.

JULY 2014 – AUGUST 2014

Samsung Research & Development Institute
Member of Visual Quality Group

Developed and tested state-of-art page layout segmentation algorithm. Achieved high segmentation quality. To the end of the internship the algorithm was transferred for the main task of documents tagging.

JULY 2013 – SEPTEMBER 2013

ADSC, Singapore, University of Illinois at Urbana-Champaign
Junior Researcher

Worked on the problem of hyperspectral image segmentation. This leads to development of up-to-date semisupervised approach using geometrical methods and graphical models. The method also surpasses basic and contemporary algorithms in the field.

AWARDS & SCHOLARSHIPS

- 2018 **WorldQuant International Quant Championship Winner**
- 2015 – 2016 **WorldQuant Student Award**
- 2010 – 2011 **Alexander Abramov Foundation Fellowship**

SOFTWARE SKILLS

- ADVANCED LEVEL Matlab, Python
INTERMEDIATE LEVEL C/C++, MS SQL