

# ALINA PLESHKOVA

## Machine Learning Specialist

📍 Espoo, Finland

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🔗 [github.com/Alina9](https://github.com/Alina9)

in [alina-pleshkova](#)

## EXPERIENCE

### Machine Learning Specialist

#### Research Institute of Automation, Informatization and Communications in Railway Transport (JSC NIIAS)

📅 Oct 2021 – Dec 2022

📍 Saint Petersburg

Development and implementation of integrated intelligent railway operations control and automation systems

- Implementation of machine learning papers
- Optimization of existing machine learning models
- Study and compare the various methods to problem solving
- Creation of synthetic datasets
- Python, PyTorch, PaddlePaddle, Wandb, Git, Linux

### Intern Researcher

#### JetBrains Research

📅 July 2020 – Aug 2020

📍 Saint Petersburg

Work on the Music2Dance project

- Creation a dataset consisting of pairs (music, dance)
- Genre classification of music
- Implementation Music2Dance model, that allows to generate dance movements from music
- Modification Music2Dance model
- Python, PyTorch, Librosa, Madmom

## EDUCATION

### Master

#### 🎓 Higher School of Economics

📅 Sept 2019 – June 2021

📍 Saint Petersburg

Applied Mathematics and Informatics,  
Enterprise Software Development

GPA: 8.91 / 10

### Bachelor

#### 🎓 St. Petersburg State University

📅 Sept 2015 – June 2019

📍 Saint Petersburg

Applied Mathematics and Computer Science,  
Computational Stochastics and Statistical Models

GPA: 4.6 / 5

## SKILLS

- **Programming Languages:** Python
- **Software:** PyTorch, Sklearn, Pandas, NumPy, Transformers, PyTorch Lightning, PaddlePaddle, Git, LaTeX, Wandb
- **Languages:** English (Intermediate), Russian (Native)

## PROJECTS

Matching texts and images using a transformer-like architecture

#### JetBrains Research

📅 Oct 2020 – June 2021

- Construction of a transformer-like model for the task of matching text and images, capable of learning under the condition of limited resources
- Python, PyTorch Lightning, Transformers

Reinforcement learning for crowdsourcing

#### JetBrains Research

📅 March 2020 – May 2020

- Application of Reinforcement learning tools to identify unscrupulous users of the Yandex Toloka platform
- Python, PyTorch

Study of L-optimal designs for a two-dimensional exponential model

#### St. Petersburg State University

📅 Oct 2017 – May 2019

- Study of the problem of constructing L-optimal plans for the Cobb-Douglas model
- Maple, Matlab

## SCIENTIFIC SEMINARS

Gave talks about agent systems and reinforcement learning

📅 Feb 2020 – May 2021

- Adversarial Soft Advantage Fitting: Imitation Learning without Policy Optimization (2021) [\[Link\]](#)
- Multi-agent Social Reinforcement Learning Improves Generalization (2020) [\[Link\]](#)
- Self-Tuning Deep Reinforcement Learning (2020) [\[Link\]](#)

## REFERENCES

- [Dmitrii Leliuhin](#) – Head of Computer Vision Center of JSC NIIAS  
Contact: [dleliuhin@yandex.ru](mailto:dleliuhin@yandex.ru)
- [Petr Shpilev](#) – Associate Professor at the Department of Computational Stochastics and Statistical Models at St. Petersburg State University  
Contact: [pitshp@hotmail.com](mailto:pitshp@hotmail.com)