

# Andrei Ruslantsev

Moscow, Russia, 108814 (*open to relocate*) | [andreiruslantsev@gmail.com](mailto:andreiruslantsev@gmail.com) | <https://www.linkedin.com/in/andrei-ruslantsev/> | <https://github.com/aruslantsev> | Visa sponsorship required

## Summary

- **3+ years of experience** in machine learning (mostly using Python and pytorch)
- **Launched product matcher from scratch twice** in two different companies
- Experience in building **reliable systems** from scratch using **existing infrastructure**
- Currently I am a Senior data scientist in **Aliexpress** Russia

## Skills

**Languages:** Python, Matlab, Maple, Swift, C++

**Technologies:** Machine learning, Neural networks, Distributed Computing, MapReduce

**Tools:** pytorch, spark, sklearn, numpy, pandas, Linux, Bash, gitlab, jira, maxcompute (pyodps), LaTeX, Word, Powerpoint

**Source control:** git, dvc

**Methodology:** Scrum

**Databases:** Clickhouse, Postgresql, Hive, MySQL.

**IDE:** pycharm, jupyter, vscode.

### Accomplishments:

- Launched product matcher from scratch with matching precision 95%
- Increased matching coverage by 20%
- Increased warehouse picking efficiency by 24%
- Mentored two trainees

## Work Experience

**Senior Data Scientist**, *Aliexpress Russia*, Moscow, Russia.

**Oct. 2020 — Present**

*Project:* Knowledge engineering – product matcher

*Accomplishments:*

- Launched ML-based product matcher from scratch in 6 months with matching precision 95%
- In next 3 months increased coverage of the most valuable categories by 20% with matches
- In next 7 months increased matcher doubled recall for all categories
- Automated matching quality monitoring

*Technologies:* Python, pytorch, Clickhouse, Airflow, pyodps, Docker, MaxCompute

**Lead Data Scientist**, *InTechControl*, Moscow, Russia

**Jun. 2019 – Present**

A small startup developing software for finding defects on samples tomograms

- Developed software for automated search for defects on tomograms of carbon fibre reinforced details
- Developed ML-based software, which fully-automatic creates 3D model of detail with defects from tomograms of detail
- Software provided 90% precision of defects search

**Data Scientist**, *OZON.ru*, Moscow, Russia.

**Feb. 2019 — Oct. 2020**

One of the top-3 biggest Russian marketplaces, 12000+ employees, Market capitalization 7.2+ billion \$

*Project:* Warehouse management system optimization

*Accomplishments:*

- Increased warehouse picking efficiency by 24% by developing a new order fulfillment algorithm using optimization methods

*Project:* Product matcher

*Accomplishments:*

- Launched ML-based product matcher from scratch in 1 year and reached required indicators
- Provided 30% coverage of goods, taking into account the main competitors
- Mentored two interns

- Lectured on machine learning to students

*Technologies:* Python, pytorch, Spark, Hive, Airflow, Clickhouse

**Research officer**, *Institute of Machines Science*, Moscow, Russia.

**Aug. 2012 — Feb. 2019**

Russian leading research institution in the field of machine science (mechanical engineering)

*Project:* Mechanics of composite materials

*Accomplishments:*

- Wrote and defended PhD thesis on time
- Developed analytical mathematical models for fiber reinforced plastics (deformation and fracture analysis, deformation under time-dependent loads)
- Organized and held international conferences "Deformation and Fracture of Composite Materials and Structures" in 2014, 2016 and 2018

*Technologies:* Python, Matlab, Maple, LaTeX, Word, PowerPoint

**Teaching assistant**, *Bauman Moscow State Technical University*, Moscow, Russia.

**Sep 2015 — Feb. 2019**

*Accomplishments:*

- Developed a course approved at the department, which was taught 2 years to BMSTU students
- Two students defended their diploma projects with honors
- Designed tasks, homework and control software for automatic task checking on Mechanics of composite materials

*Technologies:* Matlab, LaTeX, Word, Powerpoint

**Laboratory assistant**, *Bauman Moscow State Technical University*, Moscow, Russia.

**Sep 2010 — Jun. 2014**

*Accomplishments:*

- Refurbished and recommissioned laboratory testing equipment, the rotary casting machine worked for 8 years without breakdowns after my recommissioning
- Developed a probabilistic model of particle redistribution during the rotary casting process of suspensions

## Education

**PhD degree** in Solid Mechanics

**2014 — 2018**

*Bauman Moscow State Technical University*, Moscow, Russia

BMSTU is one of the best Russian universities, which entered top-300 of QS World University Rating

Department of Aerospace composite materials

Research area – nonlinear and time-dependent deformation of carbon fibre reinforced plastics

**Master's degree** in Materials science and technology of materials

**2012 — 2014**

*Bauman Moscow State Technical University*, Moscow, Russia

Department of Aerospace composite materials

GPA: 5.0/5.0

Research area – suspensions casting process simulation

*Awarded President of Russian Federation scholarship* in 2012-2013 and 2013-2014 for outstanding academic excellence

*Awarded Club of the Imperial Technical School scholarship* in 2013 and 2014

**Bachelor's degree** in Materials science and technology of new materials

**2008 — 2012**

*Bauman Moscow State Technical University*, Moscow, Russia

Department of Aerospace composite materials

GPA: 4.9/5.0

Research area – suspensions casting process simulation