

Mikhail Kotyushev

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Education

University

- Sep 2018 - **Computer Science, Master**, *Moscow Institute of Physics and Technology, Moscow*,
June 2021 <https://mipt.ru/>.
Department of Innovation and High Technology, Chair of Data Analysis
- Sep 2014 - **Physical Informatics, Bachelor**, *Novosibirsk State University, Novosibirsk, Russia*,
Jul 2018 <https://www.nsu.ru/>.
Physical Department, Chair of Automation of Physical and Technical Research

Additional Education

- Sep 2018 - **Data science student**, *Yandex School of Data Analysis, Moscow, Russia*,
Today <https://yandexdataschool.ru/>.

Experience

Job

- Jun 2019 - **Engineer**, *Huawei Moscow Research Center*,
Today *Huawei Technologies, Moscow, Russia*,
<https://huawei.ru/>.
Developed unit / automated tests for Java VM bytecode verifier (90%+ code coverage). Implemented network controlling algorithm into device firmware in C. Developing algorithms for upcoming Wi-Fi 7 (X% network latency decrease) in C++ network simulator.
- Jan 2019 - **Embedded systems engineer**, *Xumanless, Moscow, Russia*.
Feb 2020 Developed hardware & firmware part for self-service secure coatroom solution.
- Jan 2015 - **Part-time laboratory assistant**,
Oct 2018 *Laboratory of Nonlinear Optics of Guided Wave Systems, Novosibirsk State University, Novosibirsk, Russia*,
Laboratory of Fiber Optics, Institute of Automation and Electrometry of SB RAS, Novosibirsk, Russia,
<https://www.iae.nsk.su/> & <https://research.nsu.ru/>.
Developed software & firmware part for optical fiber testing stand. Automation of experiments in fiber optics field, research in fiber Bragg grating sensors applications (resulting in articles & diploma thesis).

Technical

- Languages & libraries C++, Python,
SciPy stack (numpy, pandas etc.), scikit-learn, OpenCV, PyTorch, Huggingface Transformers, Qt5 & PyQt5
- Skills Mathematics & algorithms, Linux, git, LaTeX, regular expressions
- Other Experience with large C++ projects, firmware programming, electrical circuit prototyping

Research Experience

Thesis topics

- 2021 **Master: Wi-Fi multi-link device transmission parameters control using RL model,**
https://github.com/mkotyushev/CV/blob/master/texts/master_thesis.pdf.
- 2018 **Bachelor: Acquisition system for bending sensor based on multicore optical fiber,**
https://github.com/mkotyushev/CV/blob/master/texts/bachelor_thesis.pdf.

Competitions publications

- 2020 **VkCup 2021.**
NLP answer selection competition (12 / 22)
- 2020 **OK ML Cup,**
<https://cups.mail.ru/ru/contests/okmlcup2020>.
NLP toxic content classification competition (7 / 50)
- 2021 **MIPT-NSU-UTMN at SemEval-2021 Task 5: Ensembling Learning with Pre-trained Language Models for Toxic Spans Detection,**
SemEval-2021 pre-print,
<https://arxiv.org/pdf/2104.04739.pdf>.