

# Yury Davydov

Data scientist, Data Analyst, Machine Learning Engineer

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## EXPERIENCE

### VIA Technologies, Inc., Taipei – Intern – Intelligent Vision

February 2023 - July 2023

- Responsibilities: data preprocessing, building and deploying deep learning models (ONNX).
- Main data science domains: Computer Vision
- Major accomplishments: successfully reproduced a recent (2023) paper, added the ONNX export functionality to the model.

### NRC “Kurchatov Institute”, Moscow — *Laboratory Assistant*

February 2019 - August 2022

- Responsibilities: data collection and preprocessing, building deep learning models and spiking neural networks, conducting experiments, writing papers based on research results.
- Main data science domains: NLP (Natural Language Processing), Computer Vision, Spiking Neural Networks.
- Major accomplishments: successful development of a human-to-robot interface (voice conversion into RDF), synaptic plasticity model for PPX memristor devices.

## EDUCATION

### Moscow State University, Faculty of Physics — *Bachelor's degree*

September 2016 - July 2020

Majors: laser physics, computational biophysics.

### National Taipei University of Technology — *Master's degree*

September 2021 - PRESENT

Majors: control theory, deep learning (computer vision).

## PUBLICATIONS, BIOGRAPHY & MORE

- <https://vexing-shusher.github.io>
- <https://orcid.org/0000-0002-8596-4196>

## SKILLS

Python

NumPy

PyTorch

TensorFlow

Pandas

Data collection

Data cleaning

Model optimization

Model evaluation

Computational physics

Mathematical modeling

Statistics/probability

## EXTRAS

2020: III International young scientists contest in the field of oil and gas “A glimpse into the future”, Digital implementation nomination – special prize (in a team with Alexei Arkhipov, for the creation of a neural network capable of predicting failures during drilling process).

2020: Moscow State University: diploma with honors.

2021: Alexandrov scholarship for outstanding students in NRC “Kurchatov Institute”.

2023: Award for excellent academic performance in National Taipei University of Technology.

## LANGUAGES

Russian (native), English (IELTS – 8.0, 2021).

