

EDUCATION

MSc in Computer Science

Grade 1.3 / 1.0

University of Bonn, Germany

Oct 2022 – Now

BSc in Physics

Moscow State University, Russia

Sep 2018 – Aug 2022

RESEARCH EXPERIENCE

Master Thesis / CVPR 2025

Denoising Functional Maps: Diffusion Models for Shape Correspondence

University of Bonn

Apr 2024 – Now

[\[1\]](#)

- Trained a Denoising Diffusion Model (DDPM) to find correspondence between 100 scans of humans from the FAUST dataset
- Improved the Mean Geodesic Error by 3.2% compared to the baseline mesh convolutional model

Internship

Neural Hand Reconstruction

ETH Zurich

May 2023 – Dec 2023

[Project Page](#)

- Developed a NeRF-based reconstruction of the human hand from 60 images, using the Interhand3.6m dataset
- Implemented a point-mesh distance finding algorithm using Octrees; reduced the calculation time from 5s to 0.3s compared to the baseline

Semester Project

Human Pose Forecasting

University of Bonn

Apr 2023 – Sep 2023

[Project Page](#)

- Developed a human pose prediction model based on spatial convolution, trained on the Human2.6m dataset
- Reduced the Mean Per Joint Position Error (MPJPE) by 2.9% over the baseline transformer model

Research Assistant

Segmentation of satellite images

Moscow State University

Nov 2019 – Feb 2022

[\[2\]](#), [\[3\]](#)

- Utilized the Very Deep Super-Resolution (VDSR) network to upscale the low-resolution satellite images of neutron stars
- Implemented a background subtraction model based on the R-CNN network; achieved a 3x speedup compared to the GrabCut algorithm

PUBLICATIONS

1. **Denoising Functional Maps: Diffusion Models for Shape Correspondence**
A. Zhuravlev, Z. Löhner, V. Golyanik; *CVPR 2025*
[PDF](#), [Project Page](#)
2. **Toward Constraining Axions with Polarimetric Observations of the Isolated Neutron Star RX J1856.5–3754**
A. Zhuravlev, R. Taverna, R. Turolla; *The Astrophysical Journal* 2022
[PDF](#)
3. **Photon-Axion Mixing in Thermal Emission of Isolated Neutron Stars**
A. Zhuravlev, S. Popov, M. Pshirkov; *Physics Letters B* 2021
[PDF](#)

ADDITIONAL EXPERIENCE AND AWARDS

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|---|----------------------------|
| HackaTUM Hackathon, 1st place
Project Page | Nov 2022 |
| <ul style="list-style-type: none">• Developed a ResNet-based model to recognize 3 types of recyclable waste from 3D scans with 73% accuracy | |
| TUM ML4Earth Hackathon, 1st place
Project Page , Code | Oct 2022 |
| <ul style="list-style-type: none">• Trained an MLP-based network to predict soybean yields in 190 US counties over 5 years | |
| Scholarship for outstanding students, Moscow State University | Sep 2020 – Jan 2022 |
| <ul style="list-style-type: none">• Awarded to top 5% of all students | |