Zhakshylyk Nurlanov

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EDUCATION

University of BonnBonn, GermanyPhD in InformaticsFebruary 2022 – Present

PhD in Informatics
Topic: Robustness of Deep Learning, Advisor: Florian Bernard

Technical University of Munich (top 10%, with distinction)

Munich, Germany

MSc of Informatics

October 2019 – 2021

Thesis: Deep Learning for Multi-Graph Matching, Advisor: Florian Bernard

Moscow Institute of Physics and Technology (top 5%, Honour degree) Moscow, Russia

BSc of Applied Mathematics and Physics

September 2015 – 2019

Thesis: Deep Learning for Speech-Driven Facial Avatar Animation, Advisor: Victor Lempitsky

RESEARCH & WORK EXPERIENCE

Bosch Center for Artificial Intelligence

Renningen, Germany

Doctoral Student, Robust and Explainable Deep Learning

December 2021 - Present

o Researching deep learning model safety and security, with a focus on foundation models

Computer Vision Group, TUM

Munich, Germany

Assistant Researcher, Visual-based Navigation

October 2020 – *April* 2021

Samsung R&D Institute

Moscow, Russia

Computer Vision Engineer, Bio-recognition Lab

June 2018 – August 2019

o Developed solutions for speech-driven avatar animation and dynamic gesture recognition projects

PUBLICATIONS

- **Zhakshylyk Nurlanov**, Frank R. Schmidt, Florian Bernard (ICML Workshop 2023) *Adaptive Certified Training: Towards Better Accuracy-Robustness Tradeoffs*
- **Zhakshylyk Nurlanov**, Frank R. Schmidt, Florian Bernard (AAAI Oral 2023) *Universe Points Representation Learning for Partial Multi-Graph Matching*
- **Zhakshylyk Nurlanov**, Daniel Cremers, Florian Bernard (ICPR 2022) *Efficient and Flexible Sublabel-Accurate Energy Minimization*
- o Glazistov I., Krotov I., **Nurlanov Z.**, Karacharov I., Simutin A., and Danilevich A. *Method for generating an animation model of a head based on a speech signal and an electronic computing device which implements it*. RU2721180C1, *May* 2020; KR20210070169A, *June* 2021.

PROJECTS

Fully Event-driven Visual Odometry

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Visual odometry pipeline based on tracking features from motion-compensated frames using only events

3D Face Reconstruction and Retargeting using RGB-D data

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Implementation of fitting and refinement of the face model, followed by facial deformation transform

PROFESSIONAL & COMMUNITY SERVICE

CVPR, ICML, ICCV, GCPR, IEEE TNNLS, TPAMI

2022 - 2023

Reviewer, Meta-Reviewer

National Mathematical Olympiad Committee

2021 - Present

Organizing Kyrgyz National Math Olympiads among (≈ 6000) high school students to form a team for IMO