Dortmund, Germany

ARSLAN GABDULKHAKOV

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EMPLOYMENT

Research Scientist **Leibniz Research Centre** **June 2022 - Present**

Neuroimaging Department

- Analysis of cortical layers in ultra-high field 7-Tesla fMRI data
- Multimodal neuroimaging data fusion in GLM of simultaneously acquired EEG, fMRI, ECG, eye-tracking etc.
- Time-frequency analysis of EEG

Neural Data Scientist **Institute for Neuroinformatics** **March 2020 – May 2022**

Computational Neuroscience Department

- Contributed to development of internal software for analysis of intracranial EEG and LFP data from maze experiments in human patients and rodents.
- Implementation of algorithms for EEG and behavioral data analysis from computational neuroscience papers.
- Supervised 1 bachelor and 2 master's students.

Teaching Assistant **Neuromatch Academy** **Summer 2021**

- Courses: *Computational Neuroscience* and *Deep Learning*

Education

Bochum, Germany **Ruhr-University Bochum** **2019 – Present**

- Ph.D. in Cognitive Neuroscience; ***June 2022-Present***
- M.Sc. in Cognitive Science; ***October 2019-May 2022*** (GPA 1.6 *(very good)*, German grading system).
  Coursework included: Artificial Neural Networks, Computer Vision and Deep Learning, Reinforcement Learning, Parallel Computing, Clinical Neuropsychology, Seminars on EEG and fMRI neuroimaging methods.
  Thesis: "*A systematic assessment of the effects of ICA-based artefact correction on MVPA decoding of working memory contents from EEG data."*

Annandale-on-Hudson, NY **Bard College** **Spring 2017**

- Exchange semester. Coursework in robotics and applied scientific research methods.

Bishkek, Kyrgyzstan **American University of Central Asia** **2014-2018**

- B.A. in Psychology, with a minor in Software Engineering. (GPA 3.7 *(very good)*, American grading system).
  Coursework included: Algorithms and Data Structures I/II, Computer Architecture, Psychotherapy and Counseling Practice (I/II), Cognitive Psychology, Personality Psychology, Discrete Mathematics I, Statistics.

TECHNICAL EXPERIENCE

Projects

- **RIM Psychometric Tool** (2017-2022). Software for psychotherapists for automating the analysis of Rorschach Inkblot Method (RIM) test results. Software generates report in plain Russian language (Python + Flask, JS, HTML)

AWARDS

- **DAAD Scholarship (2019-2022):** Highly ranked merit-based scholarship from for pursuing master's degree at Ruhr-University in Germany
- **Best Thesis Award (2018):** Best senior thesis the class of 2018 and of Department of Psychology at the American University of Central Asia.

Technologies

- Python 3: TensorFlow, nilearn, sklearn, numpy, pandas, MNE, Pytorch (basics)
- Matlab: EEGLAB, FieldTrip, SPM, internally developed libraries for the analysis of neuroimaging data
- C/C++ and Java: Basics of STL, competitive programming
- Neuroimaging software: FSL, Laynii, AFNI, BrainVision Analyzer

Language skills

- Mother tongue: Russian and Uzbek bilingual
- English (C2)
- German (B1)