Arslan **Gabdulkhakov**
MSc Cognitive Science Student @ Ruhr-Universität Bochum

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Education

October 2019 - Present

Ruhr-Universität Bochum
MSc Cognitive Science - Germany (www.rub.de)
- Awarded with DAAD Scholarship to pursue Master's Degree
- GPA: 1.7 (German grading system)
- Coursework in Neuropsychological Methods: 1. EEG, 2.fMRI; Clinical Neuropsychology; Artificial Neural Networks; Computer Vision: Deep Learning; Reinforcement Learning, Working Memory, Engram

August 2014 - May 2018

American University of Central Asia
BA In Psychology; Minor In Software Engineering - Kyrgyzstan(www.auca.kg)
(Joint degree with Bard College, New York, USA)
- GPA 3.71 / 4.00 (U.S. grading system)
- Awarded with "The Best Senior Thesis of the Class of 2018"
- Thesis Topic: *"Development and Testing of the Rorschach Inkblot Method Calculation and Analysis Software for Russian-Speaking Psychotherapists in Kyrgyzstan"*
- Chairman of the Student Senate and a Student Representative to the Board of Trustees of the University

January 2017 - May 2017

Bard College
Exchange Semester - New York, USA
Department of Psychology and Computer Science (www.bard.edu)

Courses in Autonomous Robotics, Cybergraphics, Research Methods in Psychology and Statistics

Work Experience

January 2021 - Present

Master Thesis Student
Leibniz Research Centre for Working Environment and Human Factors @ TU Dortmund (IfADo), Germany

Master's Thesis project *'A systematic assessment of the effects of ICA-based artefact correction on multivariate pattern analysis of EEG data.'*

- Experimental EEG data collection, preprocessing and analysis

February 2020 - Present

Student Assistant for Analysis of Neural & Behavioural Data
Institut für Neuroinformatik @ Ruhr-Universität Bochum, Germany

Dynamics of Learning (Sen Cheng Lab)

- Preprocessing and analysis of intracranial EEG/LFP data collected from rodents and human epilepsy patients performing a T-maze task
- Development of advanced neural data analytic tools using Matlab and Python 3

June - August 2021   **Teaching Assistant**
Neuromatch Academy (www.neuromatchacademy.org)
TA in Computational Neuroscience and Deep Learning Courses

February 2019 - July 2019   **Research Assistant (Full-Time)**
Westminster International University, Tashkent, Uzbekistan

Business Information Systems Department

NLP and Computer Vision research on the development of handwritten Uzbek language recognition system for text summarization and clustering (for both, Cyrillic and Latin Uzbek scripts).
Technologies used: Python 3, TensorFlow v.1 + Keras, NLTK, Pandas, sklearn

June 2017 - October 2017   **Applied Behavioural Analysis Intern**
Institute for Behavioural Health and Applied Research @ American University of Central Asia, Bishkek, Kyrgyzstan

- Assistance with assessment tools (i.e. ABLLS-R) during ABA sessions for children with autistic spectrum disorders
- Assistance in data collection and transcribing during psychotherapy sessions

Accomplishments

- Best Senior Thesis of Psychology Department (2018, American University of Central Asia)
- Award for the Advances in the Research on Therapy and Treatment of Mental Disorders (2017, Annual Psychological Symposium, Kyrgyzstan)
- Award for Successful Completion of Programme in International Education (2017, Bard College, New York, USA)
- Dean's Lists of Recognition of Outstanding Academic Achievements (Top 1% GPA in 2014,2015,2016, American University of Central Asia)

Technical Skills

- **Python 3:** *3+ years of development experience* with Keras, TensorFlow, PyTorch, SciPy, NumPy, sklearn, nilearn, Pandas, NLTK, OpenCV, etc.
- **Matlab:** DeepLearning Toolbox, EEGLAB, Simulink.
- **C/C++ 11:** STL, OpenMP, MPI.
- Git, ssh, Unix-shell scripting

Language Skills

- Mother Tongue: Russian and Uzbek bilingual
- English (C1) IELTS 7.0
- German (B1)