Anton Leontyev

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SKILLS

PROGRAMMING LANGUAGES

Python
R
SQL

LIBRARIES

Python: scikit-learn, keras, pandas, seaborn, matplotlib, SciPy
R: caret, keras, ggplot2, mice

DATA ANALYSIS

Experimental Design
Multiple Regression
Support Vector Machines
K-Nearest Neighbors
Random Forest

OTHER SKILLS

Technical Writing
LaTeX
SPSS, JASP, jamovi

EDUCATION

PHD, COGNITION & COGNITIVE NEUROSCIENCE

Texas A&M University
College Station, TX
2016 - 2021 (expected)

GRADUATE COURSEWORK

University of Louisiana
Lafayette, LA
2014 - 2016

BS, PSYCHOLOGY

Higher School of Economics
Moscow, Russia
2009 - 2013

PACKAGES

SSRTCALC

Easy stop-signal reaction time calculation in R (avaliable on CRAN)

COMPETITIONS

2019 TEXAS A&M DATATHON

Models achieved 98% prediction accuracy

EXPERIENCE

YAMAUCHI COGNITION LAB | PhD Researcher

College Station, TX | 2016 - currently

- Demonstrated the link between ADHD symptoms and mouse movement properties using various machine learning algorithms
- Applied hierarchical Bayesian parameter estimation to behavioral data in Python & R
- Identified clusters in behavioral data using K-NN and SVM algorithms
- Devised, planned, programmed and executed cognitive experiments using Python
- Organized and led discussion groups, and graded homeworks for students in multiple undergraduate courses
- Mentored undergraduate students on the principles of scientific research and basics of experimental design
- Presented research on various local and national conferences

GRYPHON NEUROLAB | Data Scientist

Remote | 2018 - 2020

- Used Keras-based neural networks to predict personality traits from open social network data

LOUISIANA MUSIC AND PSYCHOLOGY LAB | Graduate Researcher

Lafayette, LA | 2014 - 2016

- Devised, planned, programmed and executed cognitive experiments
- Analyzed data using SPSS software package
- Searched and summarized relevant literature

COGNITIVE RESEARCH LABORATORY | Research Assistant

Moscow, Russia | 2009 - 2013

- Devised, planned, programmed and executed cognitive experiments
- Analyzed data using SPSS software package
- Searched and summarized relevant literature
- Presented research on various local and national conferences

PEER-REVIEWED PUBLICATIONS

Leontyev, A., & Yamauchi, T. (2019). Mouse movement measures enhance the stop-signal task in adult ADHD assessment. *PLoS ONE*, *14 (11)*, 1-31.

Leontyev, A., Yamauchi, T. & Razavi, M. (2019). Machine Learning Stop Signal Test (ML-SST): ML-based Mouse Tracking Enhances Adult ADHD Diagnosis. In: *2019 8th International Conference on Affective Computing and Intelligent Interaction Workshops and Demos (ACIIW)*. Cambridge, United Kingdom.

Leontyev, A., Sun, S., Wolfe, M., & Yamauchi, T. (2018). Augmented Go/No-go Task: Mouse Cursor Motion Measures Improve ADHD Symptom Assessment in Healthy College Students. *Frontiers in Psychology, 9*, 496.