

# Anton Leontyev

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## SKILLS

### PROGRAMMING LANGUAGES

Python  
R

### 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  
Microsoft Office  
LaTeX  
SPSS  
JASP

## EDUCATION

### PHD, COGNITION & COGNITIVE NEUROSCIENCE

TEXAS A&M UNIVERSITY  
College Station, TX  
2016 - 2021 (expected)  
Thesis:

### GRADUATE COURSEWORK

UNIVERSITY OF LOUISIANA  
Lafayette, LA  
2014 - 2016

### BS, PSYCHOLOGY

HIGHER SCHOOL OF ECONOMICS  
Moscow, Russia  
2009 - 2013

## 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

- Trained and deployed several models for prediction of personality characteristics from open social network data with neural networks

### 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.