

Anton Leontyev

PHD STUDENT

Texas A&M University, Department of Psychological and Brain Sciences

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Research Interests

- Human-computer interaction
- Attention deficit/Hyperactivity Disorder
- Motor control
- Impulsivity
- Big Data & Machine learning
- Cursor tracking

Education

Texas A&M University

PH.D. COGNITION AND COGNITIVE NEUROSCIENCE

College Station, TX

2016 - currently

University of Louisiana at Lafayette

GRADUATE COURSEWORK IN EXPERIMENTAL PSYCHOLOGY

Lafayette, LA

2014 - 2016

National Research University - Higher School of Economics

B.S. PSYCHOLOGY

Moscow, Russia

2009 - 2013

Experience

Texas A&M University

YAMAUCHI COGNITION LAB

College Station, TX

2016 - Current

University of Louisiana at Lafayette

LOUISIANA MUSIC AND PSYCHOLOGY LAB

Lafayette, LA

2014 - 2016

National Research University - Higher School of Economics

COGNITIVE RESEARCH LAB

Moscow, Russia

2009 - 2013

Publications

JOURNAL ARTICLES

Leontyev, A. & Yamauchi, T. (2019). Mouse movement measures enhance the stop-signal task in adult adhd assessment. *PLOS ONE*, 14(11), 1–31. <https://doi.org/10.1371/journal.pone.0225437>

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.

Yamauchi, T., **Leontyev, A.** & Wolfe, M. (2017). Choice reaching trajectory analysis as essential behavioral measures for psychological science. *Insights in Psychology*, 1(4), 1.

PEER-REVIEWED PROCEEDINGS PAPERS

Leontyev, A., Yamauchi, T., & Razavi, M. (2019). Machine learning stop signal test (ml-sst): ML-based mouse tracking enhances adult adhd diagnosis. *2019 8th international conference on affective computing and intelligent interaction workshops and demos (aciww)*, 1–5. <https://doi.org/10.1109/ACIIW.2019.8925073>

Yamauchi, T., **Leontyev, A.** & Razavi, M. (2019). Assessing emotion by mouse-cursor tracking: Theoretical and empirical rationales. *2019 8th international conference on affective computing and intelligent interaction (acii)*.

Cambridge, United Kingdom.

Yamauchi, T., **Leontyev, A.** & Razavi, M. (2019). Mouse tracking measures reveal cognitive conflicts better than response time and accuracy measures. *Proceedings of the 41st annual conference of the cognitive science society*, 3150–3156. Montreal, Quebec, Canada.

Yamauchi, T., & **Leontyev, A.** (2018). HBU: Human behavior understanding by choice reaching. *Proceedings of the 40th annual conference of the cognitive science society*. Madison, Wisconsin, USA.

UNDER REVIEW

Leontyev, A. & Yamauchi, T. (under review). Discerning mouse trajectory features with drift diffusion model. *Cognitive Science*

Razavi, M., Yamauchi, T., Janfaza, V., **Leontyev, A.** Longmire-Monford, S., & Orr, J. (under review). Multimodal-multisensory experiments. *Behavior Research Methods*

POSTERS

Leontyev, A. Razavi, M., & Yamauchi, T. (2020). *Predicting adhd questionnaire scores from motor behavior using machine learning in python*. Poster session presented at the 2020 SciPy conference.

Leontyev, A. & Yamauchi, T. (2020). *Discerning mouse trajectory features with the drift diffusion model*. Poster session presented at the 2020 Annual Meeting of the Society for Computation in Psychology (SCiP).

Leontyev, A. Yamauchi, T., & Razavi, M. (2020). *Machine learning-based mousetracking enhances adult adhd diagnosis*. Poster session presented at the 2020 Annual Meeting of the Society for Computation in Psychology (SCiP).

Saenz, G., Smith, S., & **Leontyev, A.** (2019). *Is there a metacognitive “trait”? Investigating individual differences in performance predictions*. Poster session presented at the 60th annual meeting of the Psychonomics Society, Montreal, Quebec, Canada.

Saenz, G., Smith, S., & **Leontyev, A.** (2019). *Is there a metacognitive “trait”? Investigating individual differences in performance predictions*. Poster session presented at the 27th Annual Southwest Cognition and Cognitive Neuroscience Society Conference, San Antonio, TX.

Yamauchi, T., **Leontyev, A.** & Razavi, M. (2019). *Mouse tracking measures reveal cognitive conflicts better than response time and accuracy measures*. Poster session presented at the 41st Annual Conference of the Cognitive Science Society. Montreal, Quebec, Canada.

Leontyev, A. Sun, S., Wolfe, M., & Yamauchi, T. (2018). *Augmented go/no-go task: Cursor motion measures improve adhd assessment*. Poster session presented at the 30th APS Annual Convention, San Francisco, CA.

Leontyev, A. & Yamauchi, T. (2018). *Mouse movement measures improve ssrt in impulsivity assessment*. Poster session presented at the 59th annual meeting of the Psychonomics Society, New Orleans, LA.

Leontyev, A. & Yamauchi, T. (2018). *Mouse movement measures improve ssrt in impulsivity assessment*. Poster session presented at the 26th Annual Southwest Cognition and Cognitive Neuroscience Society Conference, Houston, TX.

Yamauchi, T., & **Leontyev, A.** (2018). *Assess mental disorders with the movement of the computer cursor*. Poster session presented at Computational Psychiatry 2018, San Diego, CA.

Yamauchi, T., & **Leontyev, A.** (2018). *HBU: Human behavior understanding by choice reaching*. Poster session presented at the 40th Annual Conference of the Cognitive Science Society, Madison, WI.

Yamauchi, T., & **Leontyev, A.** (2018). *Mouse-cursor motion measures are sensitive to individual differences in executive functions*. Poster session presented at the 59th annual meeting of the Psychonomics Society, New Orleans, LA.

Leontyev, A. Sun, S., Wolfe, M., & Yamauchi, T. (2017). *Augmented go/no-go task: Cursor motion measures improve adhd assessment*. Poster session presented at the 58th annual meeting of the Psychonomics Society, Vancouver, BC, Canada.

Leontyev, A, Sun, S., Wolfe, M., & Yamauchi, T. (2017). *Augmented go/no-go task: Cursor motion measures improve adhd assessment*. Poster session presented at the 25th Annual Southwest Cognition and Cognitive Neuroscience Society conference, College Station, TX.

Leontyev, A (2012). *The influence of german psychology in the psychological concepts of southern europe*. Poster session presented at the International Conference "German Science in Southern Europe, 1933-45", FCSH/NOVA, Lisbon, Portugal.

Awards and Honours

TEXAS A&M GRADUATE EXCELLENCE SUPPORT AWARD

COLLEGE STATION, TX

2021

SOUTHWEST COGNITION AND COGNITIVE NEUROSCIENCE SOCIETY (ARMADILLO) CONFERENCE BEST POSTER AWARD

COLLEGE STATION, TX

2018

TEXAS A&M GRADUATE STUDENT TRAVEL AWARD

COLLEGE STATION, TX

2018

HIGHER SCHOOL OF ECONOMICS TRAVEL AWARD

MOSCOW, RUSSIA

2012

INTERNATIONAL RESEARCH COMPETITION FOR CURRENT STUDENTS AND RECENT GRADUATES, HIGHER SCHOOL OF ECONOMICS

MOSCOW, RUSSIA

2010

Teaching Experience

CLASSROOM

Texas A&M University

TEACHING ASSISTANT

- Research Methods and Design in Psychology

College Station, TX

2018 - 2020

Texas A&M University

INSTRUCTOR

- Introduction to Psychology

College Station, TX

2020

Related Professional Skills

PROGRAMMING SKILLS

- Languages: R, Python
- Operating System: Windows, macOS, Linux/UNIX
- Others: Git, LaTeX, Markdown and RMarkdown

SOFTWARE

- Statistical Software: R, Python, JASP, jamovi, SPSS
- Office Software Packages: Microsoft Office/365, LibreOffice

Memberships

- Psi Chi - Academic Honor society
- Association for Psychological Science
- Psychonomics Society