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 — *College Station, TX*

Ph.D. Cognition and Cognitive Neuroscience — *2016 - currently*

University of Louisiana at Lafayette — *Lafayette, LA*

Graduate Coursework in Experimental Psychology — *2014 - 2016*

National Research University - Higher School of Economics — *Moscow, Russia*

B.S. Psychology — *2009 - 2013*

Experience

Texas A&M University — *College Station, TX*

Yamauchi Cognition Lab — *2016 - Current*

University of Louisiana at Lafayette — *Lafayette, LA*

Louisiana Music and Psychology Lab — *2014 - 2016*

National Research University - Higher School of Economics — *Moscow, Russia*

Cognitive Research Lab — *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 (aciiw)*, 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

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 *College Station, TX*

Teaching Assistant *2018 - 2020*

- Research Methods and Design in Psychology

Texas A&M University *College Station, TX*

Instructor *2020*

- Introduction to Psychology

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