

**MARIA V. IVANOVA, PH.D.**  
**Curriculum Vitae – September 2021**

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### **RESEARCH INTERESTS**

My research explores brain mechanisms of language and cognitive deficits and neural changes that promote recovery following brain damage. I'm interested in linking attentional and memory deficits to language abilities at both psychological and neural levels. My work also focuses on developing assessment tools for investigating cognitive and linguistic deficits in different patient populations. My research has also contributed to advancement of neuroimaging methods as they apply to studying individuals with brain injuries. The overarching aim of my work is to improve assessments and treatments available for individuals with aphasia. I have published over 35 peer-reviewed scientific articles and co-authored 2 book chapters on aphasia and related topics.

*Areas of research expertise:* aphasia, neurolinguistics, neuroimaging, lesion symptom mapping, tractography, perfusion, eye tracking, working memory, attention, standardized testing.

### **CURRENT POSITION**

**11.2018 – present    Assistant Professional Researcher**

Aphasia Recovery Lab, Department of Psychology, University of California Berkeley  
Research on neural and behavioral mechanisms of aphasia and patterns of language recovery using multi-modal neuroimaging, neuropsychological and linguistic methods.

### **EDUCATION**

**2009    Ohio University, Athens Ohio, USA – Ph.D., Speech and language sciences**

Dissertation "Addressing confounding factors in the study of working memory in aphasia: Empirical evaluation of modified tasks and measures"

**2005    Lomonosov Moscow State University, Moscow, Russia – M.S. in psychology, clinical psychology**

Master thesis "Eye movements in patients with focal brain damage"

## PROFESSIONAL EXPERIENCE

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**04.2013 – 12.2019 Senior Research Fellow**

Center for Brain and Language (formerly International Neurolinguistics Laboratory), Department of Humanitarian Studies, National Research University Higher School of Economics (HSE), Moscow, Russia

Conduction and supervision of multi-center research on neural and behavioral aspects of language and other cognitive abilities in healthy and clinical populations using neuroimaging, eye tracking and neuropsychological methods. Development and pioneering of novel neuroimaging techniques. Teaching courses on experimental studies of language, supervising undergraduate and graduate students. Organization of educational events.

**01.2017 – 05.2018 Research Scientist**

Center for Aphasia and Related Disorders, Veterans Affairs Northern California Health Care System, EBIRE, CA, USA

Research on neural and behavioral mechanisms of aphasia and factors affecting recovery using multi-modal neuroimaging, neuropsychological and linguistic methods.

**02.2011 – 12.2012 Research Fellow**

Laboratory of Neuropsychology at the Center for Fundamental Research, National Research University HSE, Moscow, Russia

Investigation of the interaction between language and memory within the research project “Systemic impairments of higher mental functions following focal brain damage”.

**09.2009 – 03.2013 Clinical Psychologist**

Center for Speech Pathology and Neurorehabilitation, Moscow, Russia

Neuropsychological assessment and treatment of individuals with brain damage, development of novel assessment tools and their introduction into clinical practice.

**08.2005 – 06.2009 Research Assistant**

Neurolinguistics Laboratory, Department of Hearing, Speech, and Language Sciences, Ohio University, Athens, OH, USA

Development of experimental stimuli, collection and analysis of data, development of protocols for analysis of eye tracking data.

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## PROFESSIONAL AWARDS AND HONORS

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**2016 National Research University HSE, Moscow, Russia**  
Best teacher award

**2007 American Speech-Language-Hearing Foundation**  
International student scholarship (awarded one per year)

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## GRANTS

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### Grants as Principal Investigator

**2016 – 2018 Russian Foundation for Basic Research, \$25,000**

Scientific-research project: “Role of white matter tracts in language processing: diffusion-tensor imaging data of individuals with neurogenic language disorders”. The aim of the project was to investigate the relationship between integrity of white-matter tracts and language performance in two patient populations: stroke patients with aphasia and brain tumor patients.

**2014 – 2016 Russian Fund for Humanitarian Studies, \$35,000**

Scientific-research project “Outlining linguistic deficits in different types of aphasia: Development and application of the Russian Aphasia Test”. The main goal of the project was to develop the first comprehensive standardized language test for aphasia in Russian and investigate linguistic profiles of different types of aphasia with it.

**2013 - 2015 Russian Foundation for Basic Research, \$40,000**

Scientific-research project “Neuroplasticity of language processing: reorganization of neural activity following local brain damage”. The project examined the mechanisms of neuroplasticity following damage to language areas of the cortex and how the network of recruited areas is modified by an intensive language therapy.

**2012 - 2013 Russian Fund for Humanitarian Studies, \$28,000**

Scientific-research project “What memory does language need: investigating the impact of types of memory and its submechanisms on language processing in healthy individuals and individuals with aphasia”. The main aim of the project was to investigate types and submechanisms of memory, its role in language processes, and the specificity of its psychological organization in healthy controls and individuals with focal brain lesions.

### Grants as Co-Investigator

**2017 – 2022 National Institute of Health – National Institute on Deafness and Other Communication Disorders, RO1DC0163405, \$1,610,000**

Research project: “Neural mechanisms and recovery of language production deficits in aphasia”. The goal of the project is to examine plasticity within gray matter regions and white matter tracts and their contribution to recovery of different language levels over the course of one full year post-stroke.

**2019 – 2020 National Institute of Health – National Institute on Deafness and Other Communication Disorders, RO1DC0163405, Administrative supplement, \$250,000**

Research project: “Neural mechanisms and decline of language production deficits in primary progressive aphasia”. The goal of the project is to investigate the role of white matter pathways in the decline of language production skills in neurodegenerative disease.

**2018 – 2021 Federal Government of the Russian Federation, \$1,000,000**

Project: “Language and Brain: prevention, diagnostics and treatment of language disorders”. The scientific objective is to develop a comprehensive understanding of the language-brain interface, its individual variability and neuroplasticity in individuals with brain impairments using the latest behavioral, neuroimaging and neurostimulation techniques. The practical objective is to translate these scientific insights and the methods used for their achievement into routine clinical practice of collaborating medical partners.

**2014 – 2016 National Research University HSE, \$700,000**

Project: “Neural foundation of language grammar”. This was an infrastructural grant to establish the International Neurolinguistics Laboratory as the premier site for research on brain and language in Russia, with worldwide recognition and develop a contemporary research program according to the highest international standards.

**Grants as Consultant and other smaller grants**

2016 – 2017 Russian Fund for Humanitarian Studies

Informational system “Electronic archive of A.R. Luria’s works”

2016 – 2017 Russian Fund for Humanitarian Studies

Regional scientific-research project “Mechanisms of language deficits in bilingual aphasia: development and application of the Tatar Aphasia Test”

2015 – 2016 Russian Fund for Humanitarian Studies

Electronic database “Normative data on verbal and visual stimuli for experimental and clinical use”

2015 – 2017 Russian Foundation for Basic Research

Scientific-research project “Impact of familial sinistrality on lateralization of language in the brain”

2015 European Cooperation in Science and Technology (COST) - Collaboration of Aphasia Trialists

Travel grant to attend the training school “International Classification of Functioning and Aphasia Research”

2012 – 2014 Russian Fund for Humanitarian Studies

Scientific-research project “Linguistic analysis through the eyes of patients with aphasia: characteristics of language processing in aphasia using eye tracking”

- 2011 – 2013 Russian Fund for Humanitarian Studies  
Scientific-research project “Impact of structure and content of tasks on writing deficits in patients with dysgraphia following brain damage”
- 2011 – 2012 Russian Fund for Humanitarian Studies  
Electronic scientific-informational system “Verb and action: database of stimuli and normative data for experimental studies”
- 2010 International Neuropsychological Association, Ian Novak-Dzerski College of Eastern Europe  
Fellowship to attend the mid-year meeting of the International Neuropsychological Association
- 2008, 2009 National Institute of Health – National Institute of Deafness and Other Communication Disorders  
Fellowships to attend the NIDCD symposium as a part of the Clinical Aphasiology Conference
- 2008 Ohio University, Student senate  
Original work grant “Empirical evaluation of a novel eye tracking task to assess working memory in aphasia”
- 2007 American Speech-Language-Hearing Foundation  
Mentoring pair travel award to attend ASHA Convention (with Dr. Malcolm R. McNeil)
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## **TEACHING AND MENTORING EXPERIENCE**

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### **University courses taught**

- 2014 – 2016 Experimental methods in psycho- and neurolinguistics (undergraduate course)  
Philology Department, National Research University HSE
- 2013 – 2014 Experimental linguistics (graduate course)  
Philology Department, National Research University HSE
- 2010 Clinical practicum in neurorehabilitation (graduate course)  
Department of Psychology, Lomonosov Moscow State University
- 2010 Clinical psychology (graduate course)  
Department of Psychology and Social Work, Pirogov Russian State Medical University
- 2009 Neurorehabilitation (graduate course)

2007 – 2008 Department of Psychology and Social Work, Pirogov Russian State Medical University  
Aphasia and other neurogenic language disorders (teaching assistant)  
Ohio University, Department of Hearing, Speech, and Language Sciences

**Mentoring students**

2020 – 2021 Supervision of research projects conducted by undergraduate and graduate students  
Department of Psychology, University of California Berkeley

2013 – 2017 Advisor on bachelor term papers and theses  
National Research University HSE, Philology Department

2010 – 2012 Co-advisor on master theses  
Department of Psychology and Department of Philology, Lomonosov Moscow State University

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**TECHNICAL KNOWLEDGE**

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Skills conducting experiments using the following methods:

- Voxel-based Lesion Symptom Mapping (VLSM)
- Diffusion Tensor Imaging
- Tractography
- Perfusion ASL
- Functional Magnetic-Resonance Imaging
- Eye tracking
- Various behavioral methods, including neuropsychological and speech-language assessments

Knowledge of the following software:

- Stimuli presentation E-prime, Stimuli Presenter, PsychoPy
  - Neuroimaging data analysis SPM, FSL, ExploreDTI, DIPY, TrackVis, Mi-Brain
  - Statistical analysis SPSS, R
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**FOREIGN LANGUAGES**

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- Russian – fluent
  - French – intermediate
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**AD HOC JOURNAL REVIEWER**

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Aphasiology	Frontiers in Human Neuroscience
Brain Injury	Journal of Clinical and Experimental Psychology
Brain Structure and Function	Journal of Cognitive Neuroscience
Brain and Language	Journal of Communication Disorders
Cerebral Cortex	Journal of Speech, Language and Hearing Research
Cortex	

## JOURNAL ARTICLES (peer-reviewed)

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### Published papers (\* denotes key publications)

1. \***Ivanova, M.V.**, Akinina, Yu.S., Soloukhina, O.A., Iskra, E.V., Buivolova, O.V., Charbacz, A.V., Stupina, E.A., Khudyakova M.V., Akhutina, T.V., & Dragoy, O. (in press). The Russian Aphasia Test: The first comprehensive, quantitative, standardized, and computerized aphasia language battery in Russian. *PLoS One*.
2. Kuptsova, S., Dragoy, O., & **Ivanova M.V.** (in press). Switching attention deficits in post-stroke individuals with different aphasia types. *Aphasiology*.
3. **Ivanova, M.V.**, & Dronkers, N.F. (in press). Aphasia: How our language system can “break”. *Frontiers for Young Minds*.
4. \***Ivanova M.V.**, Malyutina, S., & Dragoy, O. (2021) Advancing neurolinguistics in Russia: Experience and implications of building experimental research and evidence-based practices. *Frontiers in Psychology*, 12: 702038. doi: 10.3389/fpsyg.2021.702038
5. Lwi, S.J., Herron, T.J., Curran, B.C., **Ivanova, M.V.**, Schendel, K., Dronkers, N.F., & Baldo, J.V. (2021). Auditory comprehension deficits in post-stroke aphasia: Neurologic and demographic correlates of outcome and recovery. *Frontiers Neurology*, 12: 680248. doi: 10.3389/fneur.2021.680248
6. \***Ivanova, M.V.**, Zhong, A., Turken, A., Baldo, J.V. & Dronkers, N.F. (2021). Functional contributions of the arcuate fasciculus to language. *Frontiers in Human Neuroscience*, 15: 672665. doi: 10.3389/fnhum.2021.672665.
7. Llorens, A., Tzovara, A., Bellier, L., Bhaya-Grossman, I., Bidet-Caulet, A., Chang, W.K., Cross, Z.R., Dominguez-Faus, R., Flinker, A., Fonken, Y., Gorenstein, M., Holdgraf, C., Hoy, C.W., **Ivanova, M.V.**, Jimenez, R.T., Jun, S., Kam, J.W.Y., Kidd, C., Marcelle, E., ... Dronkers, N.F. (2021). Gender bias in academia: A lifetime problem that needs solutions. *Neuron*, 109, 2047-74.
8. Schendel, K., Herron, T.J., Curran, B., Dronkers, N.F., **Ivanova, M.V.**, & Baldo, J.V. (2021). Case study: A selective tactile naming deficit due to interhemispheric disconnection. *NeuroImage: Clinical*, 30, 102614.
9. \***Ivanova, M.V.**, Herron, T.J., Dronkers, N.F., & Baldo, J.V. (2021). An empirical comparison of univariate versus multivariate methods for the analysis of brain-behavior mapping. *Human Brain Mapping*, 42, 1070-1101. doi: 10.1002/hbm.25278
10. Akinina, Yu.S., Dragoy, O.V., **Ivanova, M.V.**, Iskra, E.V., Petryshevskii, A.G, Fedina, O.N., Turken, A., Shklovsky, V.M., & Dronkers, N.F. (2019). Grey and white matter substrates of action naming. *Neuropsychologia*, 23, 249-265. doi: 10.1016/j.neuropsychologia.2019.05.015.

11. **\*Ivanova, M.V.**, Dragoy, O.V., Kuptsova, S.V., Akinina, Yu.S., Petrushevskii, A.G., Fedina, O.N., Turken, A., Shklovsky, V.M., & Dronkers, N.F. (2018). Data from two different working memory tasks reveal distinct neural basis of verbal working memory: A VLSM study. *Neuropsychologia*, *115*, 25-41. doi: 10.1016/j.neuropsychologia.2018.03.003.
12. Soloukhina, O.A., & **Ivanova, M.V.** (2018). Investigating comprehension of nouns and verbs: is there a difference? *Aphasiology*, *32*, 183-203. <http://doi.org/10.1080/02687038.2017.1396572>
13. Dronkers, N.F., **Ivanova, M.V.**, & Baldo, J.V. (2017). What do language disorders reveal about the brain? From classic models to network approaches. *Journal of the International Neuropsychological Society*, *23*, 741-754. doi: 10.1017/S1355617717001126.
14. Heuer, S., **Ivanova, M.V.**, & Hallowell, B. (2017). More than the verbal stimulus matters: Visual attention in language assessment for people with aphasia using multiple-choice image displays. *Journal of Speech, Language, and Hearing Research*, *60*, 1348-1361. doi:10.1044/2017\_JSLHR-L-16-0087
15. **Ivanova, M. V.**, Kuptsova, S. V., & Dronkers, N. F. (2017). A comparison of two working memory tasks in aphasia. *Aphasiology*, *31*, 265-281. <http://doi.org/10.1080/02687038.2016.1172699>
16. **\*Ivanova, M. V.**, Isaev, D. Yu, Dragoy, O. V., Akinina, Yu. S., Petrushevsky, A. G., Fedina, O. N., Shklovsky, V.M., & Dronkers, D. F. (2016). Diffusion-tensor imaging of major white matter tracts and their role in language processing in aphasia. *Cortex*, *85*, 165-181. doi:10.1016/j.cortex.2016.04.019 (*more than 120 citations*)
17. Malyutina, S., Dragoy, O., **Ivanova, M.**, Laurinavichyute, A., Petrushevsky, A., Meindl, T., Pöppel, E., Gutyrchik, E. (2016). Fishing is not wrestling: Neural underpinnings of the verb instrumentality effect. *Journal of Neurolinguistics*, *40*, 37–54. <http://doi.org/10.1016/j.jneuroling.2016.03.002>
18. Kuptsova, S.V., **Ivanova, M.V.**, Petrushevsky, A.G., Fedina, O.N., Zhavoronkova, L.A. (2016). Sex- and age- related characteristics of brain functioning during task switching (fMRI study). *Human Physiology*, *42(4)*, 361-370.
19. Soloukhina. O., **Ivanova, M.**, Akinina, Y., Akhutina, T., Dragoy, O. (2015). Development and standardization of a test for the comprehension of nouns and verbs in Russian: Data from individuals with and without aphasia. *The Russian Journal of Cognitive Science*, *2(2-3)*, 14-21.
20. Akinina, Y., Malyutina, S., **Ivanova, M.V.**, Iskra, E., Mannova, E., & Dragoy, O. (2015). Russian normative data for 375 action pictures and verbs. *Behavior Research Methods*, *47*, 691-707. doi:10.3758/s13428-014-0492-9
21. **\*Ivanova, M.V.**, Kuptsova, S.V., Dragoy, O.V., Ulicheva, A.S., & Laurinavichyute, A.K. (2015). The contribution of working memory to language comprehension: Differential effect of aphasia type. *Aphasiology*, *29*, 645-664. DOI:10.1080/02687038.2014.975182
22. Kuptsova, S.V., Vlasova, R.M., Dragoy, O.V., **Ivanova, M.V.**, Malyutina, S.A., Petrushevskii, G.A., Fedina, O.N., Gutyrchik, E.F. (2015). Features of the reorganization of the language brain areas in patients with different forms of aphasia. *Proceedings of VSU. Series: Linguistics and intercultural communication*, *4*, 74-81.



23. Kuptsova, S.V., **Ivanova, M.V.**, Petrushevsky, A.G., Fedina, O.N., Zhavoronkova, L.A. (2015). Sex related differences in task switching: An fMRI study. *Human Physiology. Human Physiology*, 41(6), 49–64.
24. Kuptsova, S.V., **Ivanova, M.V.**, Petrushevsky, A.G., Fedina, O.N., Zhavoronkova, L.A. (2015). FMRI study of visual task switching in healthy individuals. *Journal of Higher Neural Processing of I.P. Pavlov*, 65(1), 61-71.
25. Laurinavichyute, A.K., Dragoy O.V., **Ivanova M.V.**, Kuptsova S.V., & Ulicheva, A.S. (2015). Psychological unreality of syntactic traces. *Questions in language studies*, 1, 102-110.
26. Laurinavichyute, A.K., Ulicheva, A.S., **Ivanova, M.V.**, Kuptsova S.V., & Dragoy, O.V. (2014). Processing lexical ambiguity in sentential context: Eye-tracking data from brain-damaged and non-brain-damaged individuals. *Neuropsychologia*, 64, 360-373. DOI: 10.1016/j.neuropsychologia.2014.09.040.
27. **Ivanova, M.V.**, & Hallowell, B. (2014). Controlling linguistic complexity and length to enhance validity of working memory assessment: A new modified listening span task for people with and without aphasia. *Journal of Communication Disorders*, 52, 78-98. DOI: 10.1016/j.jcomdis.2014.06.001
28. Kuptsova S.V., **Ivanova, M.V.**, Dragoy, O.V., Petrova, L.V., Ponomareva, A., Ulicheva, A.S., & Laurinavichyute, A.K. (2014). Characteristics of impairments of focused attention in patients with different types of aphasia. *Psychological studies*, 7(34), 4.
29. Mikadze, Y.V., Kozintseva, E.G., Skvortsov, A.A., Vlasova, A.V., & **Ivanova, M.V.** (2014). Effectiveness of different writing tasks performance in patients with sensory agraphia. *Psychological studies*, 7(33).
30. \***Ivanova, M.V.**, & Hallowell, B. (2013). A tutorial on aphasia test development in any language: Key substantive and psychometric considerations. *Aphasiology*, 27, 891-920. DOI: 10.1080/02687038.2013.805728 (more than 70 citations)
31. Ulicheva, A.S., Dragoy O.V., **Ivanova M.V.**, & Kuptsova S.V. (2012). Lexical access in healthy controls and in aphasia: eye-tracking data. *Journal of the Moscow State University. Series 9. Philology*, 5, 161-173.
32. \***Ivanova, M.V.**, & Hallowell, B. (2012). Validity of an eye-tracking method to index working memory in people with and without aphasia. *Aphasiology*, 26, 556-578.
33. Mikadze, Y.V., Kozintseva, E.G., Skvortsov, A.A., Zaykova, A.V., & **Ivanova, M.V.** (2012). Psychological structure of writing in contemporary western neuropsychology. *Neurology, neuropsychiatry, psychosomatics*, 2, 21-29.
34. Mikadze, Y.V., Kozintseva, E.G., Skvortsov, A.A., Zaykova, A.V., & **Ivanova, M.V.** (2012). Psychological analysis of the structure of writing: the history of agraphia studies in foreign neuropsychology. Part 2. *Psychological studies*, 1(21).
35. Mikadze, Y.V., Kozintseva, E.G., Skvortsov, A.A., Zaykova, A.V., & **Ivanova, M.V.** (2011). Psychological analysis of the structure of writing: the history of agraphia studies in foreign neuropsychology. Part 1. *Psychological studies*, 5(19).

36. Hallowell, B., & **Ivanova, M.V.** (2009). Development and standardization of a Multiple-Choice Test of Auditory Comprehension for aphasia in Russian. *Journal of Medical Speech-Language Pathology*, 2, 83-98.
37. **Ivanova, M.V.**, & Hallowell, B. (2009). Short form of the Bilingual Aphasia Test in Russian: Psychometric data of persons with aphasia. *Aphasiology*, 23, 544-556.

#### **Manuscripts under review**

38. Zyryanov, A., Stupina, E., Gordeyeva, E., Buivolova, O., Novozhilova, E., Akinina, Yu., ... **Ivanova, M.V.**, Dragoy, O. Moderate global aphasia: A generalized decline of language processing after glioma surgery. *Brain and Language*. (second round of reviews)
39. Zhong, A., Dronkers, N.F, Curran, B., & **Ivanova, M.V.** The unique roles of the frontal aslant tract in language processing. *NeuroImage: Clinical*. (under review)

#### **Manuscripts in preparation**

40. **Ivanova, M.V.**, Pappas, I., Inglis, B., Herron T., Baldo J., Mohyee R., Kayser, A., D'Esposito, M., & Dronkers, N.F. *Perfusion levels in the left hemisphere are associated with language outcomes in chronic post-stroke aphasia*.
  41. **Ivanova, M.V.**, Rheault, F., & Dronkers N.F. *Finding the right connections: Comprehensive evaluation of multiple tractography algorithms*.
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#### **BOOK CHAPTERS**

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1. Dronkers, N.D. & **Ivanova M.V.** (in press). The neuroscience of language & aphasia. In APA Handbook of Neuropsychology.
  2. Baldo, J.V., **Ivanova, M.V.**, Herron, T.J., Wilson, S.M., & Dronkers, N.F. (in press). Voxel-based lesion symptom mapping. In D. Pustina & D. Mirman (Eds.) *Lesion-to-symptom mapping: Principles and tools*.
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#### **INVITED TALKS**

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1. Aphasia: How our language system can “break”. *Webinar “Can your science pass a kid’s review?”*, BrainFacts.org. March 18<sup>th</sup>, 2021.
2. Luria’s neuropsychology: A comprehensive theory of higher cortical functions. *Cognitive Neuroscience Colloquium*, Department of Psychology, University of California Berkeley, Berkeley, CA, USA. January 25<sup>th</sup>, 2021.
3. Advancing our understanding of lesion symptom mapping tools: An empirical comparison of univariate versus multivariate methods. *C-STAR lecture series*, University of South Carolina, Columbia, SC, USA. May 21<sup>st</sup>, 2020.

4. Diffusion-weighted imaging and aphasia: Finding connection that make language possible. *D'Espo Lab seminars*, University of California Berkeley, Berkeley, CA, USA. April 28<sup>th</sup>, 2020.
  5. Aphasia Recovery Lab: Current research and future directions. *Cognitive Neuroscience Colloquium*, Department of Psychology, University of California Berkeley, Berkeley, CA, USA. February 10<sup>th</sup>, 2020.
  6. Finding the right path: Comparing different tracking algorithms using automatic tract segmentation. *Seminars of the Center for Brain and Language*, National Research University HSE, Moscow, Russia. August 29<sup>th</sup>, 2019.
  7. Luria's legacy in (Russian) neuropsychology: The past and the future. *Knight Lab seminars*, University of California Berkeley, Berkeley, CA. April 30<sup>th</sup>, 2019.
  8. The critical connections: Exploring the role of different tracts supporting language in aphasia. *Seminars of the Memory and Aging Center*, University of California San Francisco, San Francisco, CA, USA. April 3<sup>rd</sup>, 2019.
  9. Perfusion imaging in stroke: Preliminary notes on implementation of an ASL sequence. *Siemens Neuro Users Group Meeting*, University of California Berkeley, Berkeley, CA, USA. March 28<sup>th</sup>, 2019.
  10. Multiple comparisons in voxel-based analysis. *Seminars of the Center for Brain and Language*, National Research University HSE, Moscow, Russia. June 14<sup>th</sup>, 2018.
  11. DTI and hodological approach to language processing. *Anniversary Congress of the Russian Society of Radiology*, Moscow, Russia. November 8<sup>th</sup>, 2016.
  12. Evidence-based practice in communication disorders: How does the search for evidence begin and where it will take us. *Third Annual International Summer Neurolinguistics School «Aphasia Assessment, Treatment and Recovery»*, Moscow, Russia. July 2<sup>nd</sup>, 2016.
  13. Aphasia classifications. *Second Annual International Summer Neurolinguistics School «Language and Brain Pathology»*, Moscow, Russia. August 25<sup>th</sup>, 2015.
  14. White matter tracts and language. *Spring School «Neuroimaging of Fiber Pathways: Introduction to Diffusion-Tensor Imaging and Tractography»*, Moscow, Russia. March 3<sup>rd</sup>, 2015.
  15. Neurolinguistics – how does the brain process language? *Summer Linguistics School*, Dubna, Russia. July 15<sup>th</sup>, 2014.
  16. Luria's neuropsychology and aphasia classification. *Seminar of the Center for Aphasia and Related Disorders*, VA Northern California Health Care System, Martinez, CA, USA. March 5<sup>th</sup>, 2014.
  17. Role of working memory in language deficits in aphasia. *Moscow Seminar on Cognitive Science*, Moscow, Russia. April 21<sup>st</sup>, 2011.
  18. Russian and western approaches to aphasia assessment and treatment. *Conference «Interdisciplinary treatment of stroke patients: The problem-oriented approach»*, Saint-Petersburg, Russia. November 26<sup>th</sup>, 2010.
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## CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS (out of more than 130):

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### 2021

1. **Ivanova, M.V.**, Rheault, F., & Dronkers N.F. (2021). Finding the right connections: Investigating how tractography algorithms influence observed patterns of brain-language relationships. *Platform presentation at the Thirteenth Annual Meeting of the Society for the Neurobiology of Language (virtual edition)*.
2. **Ivanova, M.V.**, Dragoy, O.V., Akinina, Yu.S., Soloukhina, O.A. (2021). Noun-verb dissociations in aphasia: Exploring performance patterns across naming and single word comprehension tasks. *Poster accepted for the Academy of Aphasia (virtual edition)*.
3. Vance, A., Richardson, A., Pracar, A., Lawien, J., Kannan, S., Anderson, V., Dronkers, N.F., & **Ivanova, M.V.** (2021). Navigating the intricate world of aphasia apps: A guide for individuals with aphasia and their families. *Poster accepted for the Academy of Aphasia (virtual edition)*.
4. Dragoy, O., Malyutina, S. Karpychev, V., Malyutina, S., Zinchenko, V., Ushakov, V., **Ivanova, M.V.**, Ignatyev, G., & Cabeen, R. (2021, June). IFOF, not the AF, asymmetry predicts functional lateralization for language. *Poster presented at the 27<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping (virtual edition)*.
5. Razmyslovich, A., Buivolova, B., Samoukina, A., Ivanova, E., Iskra, E., Soloukhina, O., Pakholiuk, O., Shlyakhova, A., **Ivanova, M.V.**, Malyutina S., & Dragoy, O. (2021, June). Combination of verb network strengthening treatment with different types of non-invasive brain stimulation. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*.
6. **Ivanova, M.V.**, Dragoy, O.V., Akinina, Yu.S., Soloukhina, O.A., Iskra, E.V., Khudyakova M.V., Charbacz, A.V., Stupina, E.A., Buivolova, O.V., & Akhutina, T.V. (2021, May). The Russian Aphasia Test: Psychometric properties of a new comprehensive aphasia battery in Russian. *Poster presented at the Clinical Aphasiology Conference (virtual edition)*.

### 2020

7. **Ivanova, M.V.**, Pappas, I., Inglis, B., Herron T., Baldo J., Mohyee R., Kayser, A., D'Esposito, M., & Dronkers, N.F. (2020, October). Perfusion levels in the left hemisphere are associated with language outcomes in chronic post-stroke aphasia. *Poster presented at the Twelfth Annual Meeting of the Society for the Neurobiology of Language (virtual edition)*.
8. Bolgina, T., Karpychev, V., Malyutina, S., Zinchenko, V., Ushakov, V., **Ivanova, M.V.**, Ignatyev, G., Cabeen, R., & Dragoy, O. (2020, October). Structural asymmetry of the Arcuate Fasciculus is not associated with functional lateralization for language, nor with handedness. *Poster presented at the Twelfth Annual Meeting of the Society for the Neurobiology of Language (virtual edition)*.
9. Zyryanov, A., Stupina, E., Zelenkova, V., Gordeyeva, E., Novozhilova, E., Buivolova, O., Soloukhina, O., **Ivanova, M.V.**, Iskra, E., Gronskaya, N., Kopachev, D., Zuev, A., Pedyash, N., Medyanik, I., Yashin, K., Sitnikov, A., & Dragoy, O. (2020, October). Comparing aphasia profiles caused by left-hemisphere glioma surgery versus stroke. *Poster presented at the Twelfth Annual Meeting of the Society for the Neurobiology of Language (virtual edition)*.

10. Pracar, A., Dronkers, N.F., & **Ivanova, M.V.** (2020, October). A case of pure apraxia of speech after left hemisphere stroke: Behavioral findings and neural correlates. *Poster presented at the Academy of Aphasia (virtual edition)*.
11. Buivolova, B., Ivanova, E., Iskra, E., Soloukhina, O., Pakholiuk, O., Shlyakhova, A., **Ivanova, M.V.**, & Malyutina S. (2020, May). Verb network strengthening therapy combined with tDCS in non-fluent chronic aphasia. *Poster presented at the 6th Annual Brain Stimulation and Imaging Meeting (virtual edition)*.
12. **Ivanova, M.V.**, Rheault, F., & Dronkers N.F., (2020, June) Finding critical language connection across multiple tractography algorithms: A new analytic approach. *Poster presented at the 26<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping (virtual edition)*.

## 2019

13. **Ivanova, M.V.**, Dragoy, O.V., Akinina, Yu.S., Soloukhina, O.A., Iskra, E.V., Khudyakova M.V., Stupina, E.A., Buivolova, O.V., & Akhutina, T.V. (2019, October). Standardizing the Russian Aphasia Test: Normative data of healthy controls and stroke patients. *Poster presented at the Academy of Aphasia*. Macau SAR.
14. Kuptsova, S.V., Ulicheva, A., Dragoy, O., & **Ivanova, M.V.** (2019, September). Impairment of switching attention in patients with fluent aphasia and temporal lobe damage. *Poster presented at the 20<sup>th</sup> International Science of Aphasia Conference*. Rome, Italy.
15. **Ivanova, M.V.**, Herron, T.J., Curran B., Dronkers, N.F., & Baldo, J.V. (2019, August). Navigating the turbulent seas of lesion symptom mapping: Comparative analyses of univariate and multivariate lesion symptom mapping methods. *Paper presented at the Eleventh Annual Meeting of the Society for the Neurobiology of Language*. Helsinki, Finland.
16. Baldo, J.V., Herron, T.J., Curran, B., Lwi, S., Parker, K., **Ivanova, M.V.**, & Dronkers, N.F. (2019, August). Longitudinal recovery of auditory comprehension following stroke. *Poster presented at the Eleventh Annual Meeting of the Society for the Neurobiology of Language*. Helsinki, Finland.
17. Zhong, A., **Ivanova, M.V.**, Turken, A., Curran, B., & Dronkers, N.F. (2019, June). The role of the frontal aslant tract in speech and language processing. *Poster presented at the 25<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping*. Rome, Italy.
18. **Ivanova, M.V.**, Zhong, A., Turken, A., Curran, B., & Dronkers, N.F. (2019, May). Language connections: Exploring the role of different tracts supporting language in aphasia. *Paper presented at the Clinical Aphasiology Conference*. Whitefish, MO, USA.
19. **Ivanova, M.V.**, Zhong, A., Turken, A., Curran, B., & Dronkers, N.F. (2019, March). The critical connection: How damage of the arcuate fasciculus impacts language processing in aphasia. *Poster presented at the Cognitive Neuroscience Society*. San Francisco, USA.
20. Baldo, J.V., **Ivanova, M.V.**, Curran B., Dronkers, N.F., & Herron, T.J. (2019, March). Univariate vs. multivariate lesion symptom mapping approaches. *Poster presented at the Cognitive Neuroscience Society*. San Francisco, USA.

## 2018

21. Herron, T.J., **Ivanova, M.V.**, Dronkers, N.F., Curran, B., Ludy, C., Zhong, A., Turken, A.U., & Baldo, J.V. (2018, November). Comparison of univariate and multivariate lesion symptom mapping methods for the analysis of brain-behavioral relationships. *Poster presented at the Society for Neuroscience Meeting*. San Diego, USA.
22. **Ivanova, M.V.**, Zhong, A., Turken, A., Curran, B., & Dronkers, N.F. (2018, October). Beyond the cortex: A look at unique contributions of the arcuate fasciculus to language processing. *Poster presented at the Academy of Aphasia*. Montreal, Canada.
23. Zhong, A., **Ivanova, M.V.**, Turken, A., Curran, B., & Dronkers, N.F. (2018, October). The unique roles of the frontal aslant tract in language processing. *Poster presented at the Academy of Aphasia*. Montreal, Canada.
24. **Ivanova, M.V.**, Zhong, A., Turken, A., Curran, B., & Dronkers, N.F. (2018, August). Functional contribution of the arcuate fasciculus to language processing: A tractography study in individuals with stroke. *Poster presented at the Tenth Annual Meeting of the Society for the Neurobiology of Language*. Quebec City, Canada.
25. Malyutina, S., Dragoy, O., Gordeyeva, E., Zyryanov, A., Kopachev, D., Stupina, E., Tolkacheva, V., Pronin, I., & **Ivanova, M.V.** (2018, August). The role of white-matter tracts in language processing in patients with brain tumors. *Poster presented at the Tenth Annual Meeting of the Society for the Neurobiology of Language*. Quebec City, Canada.

## 2017

26. Malutina, S.A., Pogosbekyan, E.L., Batalov, A.U., & **Ivanova, M.V.** (2017, June). Comprehension of complex syntactic structures: Impact of white-matter tract integrity on accuracy and speed of comprehension of complex syntactic structures. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*. Moscow, Russia.
27. Bolgina, T.A., Malyutina, S.A., Zinchenko, V.V., Ignatiev, G.A., Ushakov, V.L., Akinina, Yu.S., **Ivanova, M.V.**, & Dragoy, O.V. (2017, June). Relationship between volume of the corpus callosum and language lateralization in the brain. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*. Moscow, Russia.
28. Soloukhina, O.A., Dragoy, O.V., Akinina, Yu.S., Iskra, E.V., Khudyakova M.V., Ivanova, E.G., Akhutina, T.V., & **Ivanova, M.V.** (2017, June). Development of the Russian Aphasia Test (RAT) for language assessment: preliminary data of healthy controls and patients with aphasia. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*. Moscow, Russia.
29. **Ivanova, M.V.**, Dragoy, O.V., Kuptsova, S.V., Akinina, Yu.S., Petrushevsky, A.G., Fedina, O.N., & Dronkers, D.F. (2017, March). Exploring grey and white matter correlates of verbal working memory using structural imaging. *Paper presented at the Annual Meeting of the Cognitive Neuroscience Society*. San Francisco, USA.

### Prior to 2017

30. **Ivanova, M.V.**, Dragoy, O.V., Akinina, Yu.S., Soloukhina, O.A., Iskra, E.V., Khudyakova M.V., & Akhutina, T.V. (2016, October). AutoRAT at your fingertips: Introducing the new Russian Aphasia Test on a tablet. *Poster presented at the Academy of Aphasia*. Llandudno, Wales, U.K.
31. Soloukhina, O.A., Isaev, D. Yu., Akinina, Yu.S., & **Ivanova, M.V.** (2016, September). Differences in verb and noun comprehension in aphasia. *Poster presented at the Science of Aphasia Meeting*. Venice, Italy.
32. Kuptsova, S.V., **Ivanova, M.V.**, Akinina, Yu.S., Iskra, E.V., Kozintseva, E.G., Soloukhina, O.A., Petrushevsky, A.G., & Fedina, O. N. (2016, September). Reorganization of cerebral functional activity in persons with aphasia following language therapy. *Poster presented at the Science of Aphasia Meeting*. Venice, Italy.
33. Soloukhina, O.A., Schegoleva, S.I., Iskra, E.V., Akinina, Y.S., Akhutina, T.V., & **Ivanova, M.V.** (2016, June). Impact of psycholinguistic factors on naming of objects and actions. *Poster presented at the Seventh International Conference on Cognitive Science*. Svetlogorsk, Russia.
34. **Ivanova, M.V.**, Isaev, D. Yu, Malyutina, S.A., Petrushevsky, A.G., Fedina, O.N., & Dronkers, D.F. (2016, June). Diffusion-tensor imaging study investigating the role of white-matter tract segments in language processing. *Poster presented at the Seventh International Conference on Cognitive Science*. Svetlogorsk, Russia.
35. Bolgina, T.A., Malyutina, S.A., Zinchenko, V.V., Ignatiev, G.A., Vlasova, R.M., Ushakov, V.L., **Ivanova, M.V.**, & Dragoy, O.V. (2016, June). Russian fMRI paradigm for localizing language areas in the brain. *Poster presented at the Seventh International Conference on Cognitive Science*. Svetlogorsk, Russia.
36. **Ivanova, M.V.**, Dragoy, O.V., Kuptsova, S.V., Akinina, Yu.S., Petrushevsky, A.G., Fedina, O.N., & Dronkers, D.F. (2016, June). Neural basis of working memory as revealed by voxel-based lesion symptom mapping. *Paper presented at the 22<sup>nd</sup> Annual Meeting of the Organization for Human Brain Mapping*. Geneva, Switzerland.
37. Heuer, S., & Hollowell, B., & **Ivanova, M.V.** (2016, May). Bottom-up influences on visual attention in image-based language tasks in people with aphasia. *Poster presented at the Clinical Aphasiology Conference*. Charlottesville, VA, USA.
38. **Ivanova M.**, Dragoy O., Akinina Y., Iskra E., Soloukhina O., Kobzeva A., Khudyakova M., Chrabaszcz A. and Akhutina T. (2015, October). Developing auditory comprehension subtests of the Russian Aphasia Test. *Poster presented at the Academy of Aphasia*. Tucson, AZ, USA.
39. **Ivanova, M.V.**, Isaev, D. Yu, Dragoy, O.V., Akinina, Yu.S., Petrushevsky, A.G., Fedina, O.N., & Dronkers, D.F. (2015, October). Investigating the integrity of major white matter tracts in aphasia. *Poster presented at the Seventh Annual Meeting of the Society for the Neurobiology of Language*. Chicago, IL, USA.
40. Kuptsova, S.V., Soloukhina, O.A., Dragoy, O.V., Akinina, Y.S., Akhutina, T.V., & **Ivanova, M.V.** (2015, September). A new Russian Aphasia Test: Development and standardization of single-word comprehension subtests. *Poster presented at the Science of Aphasia Meeting*. Aviero, Portugal.

41. Soloukhina, O.A., **Ivanova, M.V.**, Akinina, Y.S., Akhutina, T.V., & Dragoy, O.V. (2015, June). Development and standardization of lexical-semantic subtest for comprehension of verbs and nouns: Data of healthy controls and individuals with aphasia. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*. Moscow, Russia.
42. Schegoleva, S.I., Iskra, E.V., Akinina, Y.S., Akhutina, T.V., Dragoy, O.V., & **Ivanova, M.V.** (2015, June). Development and standardization of a psycholinguistic test for naming actions and objects: Data of healthy controls and individuals with aphasia. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*. Moscow, Russia.
43. Dragoy, O.V., Vlasova, R.M., Kozintseva, E.G., Malyutina, S.A., Akinina, Yu.S., Petrushevsky, A.G., Fedina, O.N., Gutyrchik, E.F., & **Ivanova, M.V.** (2015, June). fMRI study of verb naming in aphasia. *Poster presented at the Conference on Cognitive Science in Moscow: New Research*. Moscow, Russia.
44. **Ivanova, M.V.**, Isaev, D. Yu, Dragoy, O.V., Akinina, Yu.S., Petrushevsky, A.G., Fedina, O.N., & Dronkers, D.F. (2015, May). Role of white matter tracts in language deficits in aphasia. *Paper presented at the Meeting of the International School of Clinical Neuroanatomy – Temporal lobe*. Ragusa, Italy.
45. Isaev, D. Yu, **Ivanova, M.V.**, Dragoy, O.V., Akinina, Yu.S., Petrushevsky, A.G., Fedina, O.N., & Dronkers, D.F. (2015, April). A new approach to examining the role of white matter tracts in language disorders. *Poster presented at the Workshop “Images of the Mind: New frontiers in brain imaging. Advanced (f)MRI statistical methods and their applications”*. Milan, Italy.
46. **Ivanova, M.V.**, Kuptsova, S.V., Akinina, Yu. S., Iskra, E.V., Kobzeva, A.S., & Dragoy, O.V (2014, October). Measuring working memory in aphasia: Comparing performance on the complex span and N-back tasks. *Poster presented at the Academy of Aphasia*. Miami, FL, USA.
47. **Ivanova, M.**, Dragoy, O., Vlasova, R., Kozintseva, E., Akinina, Yu., Malyutina, S., Petrushevsky, A., Fedina, O., & Gutyrchik, E. (2014, August). Neural circuitries underlying distinct naming errors in aphasia. *Poster presented at the Sixth Annual Meeting of the Society for the Neurobiology of Language*. Amsterdam, Netherlands.
48. Dragoy, O., Malyutina, S., **Ivanova, M.**, Laurinavichyute, A., Petrushevsky, A., Meindl, T., Poeppel, E., & Gutyrchik, E. (2014, August). Fishing is not wrestling: Neural correlates of the verb instrumentality effect. *Poster presented at the Sixth Annual Meeting of the Society for the Neurobiology of Language*. Amsterdam, Netherlands.
49. Kozintseva E., Dragoy O., **Ivanova M.**, Malyutina S., Akinina Y., Sevan D., Kuptsova S., Petrushevsky A., Fedina O., Gutyrchik E. (2014, June). An fMRI study of naming actions in aphasia: the role of right hemisphere activation. *Poster presented at the Sixth International Conference on Cognitive Science*. Kaliningrad, Russia.
50. Laurinavichyute, A.K., Dragoy, O.V., **Ivanova, M.V.**, Kuptsova S.V., Ulicheva, A.S., & Petrova, L.V. (2014, June). Psychological (un)reality of syntactic traces: and eye tracking study. *Poster presented at the Sixth International Conference on Cognitive Science*. Kaliningrad, Russia.



51. Heuer, S., **Ivanova, M.V.**, & Hallowell, M.V. (2014, May). Exploring the relationship between attention allocation and working memory processes in persons with and without aphasia. *Poster presented at the Clinical Aphasiology Conference*. St. Simons Island, GA, USA.
  52. **Ivanova, M.V.**, Laurinavichyute, A.K., Dragoy, O.V., Ulicheva, A.S., & Kuptsova S.V. (2014, March). Impact of phonological distance on lexical ambiguity resolution in people with and without aphasia. *Poster presented at the annual CUNY Sentence Processing Conference*. Columbus, OH, USA.
  53. Dragoy, O.V., **Ivanova, M.V.**, Laurinavichyute, A.K., Ulicheva, A.S., Kuptsova S.V., & Petrova, L.V. (2014, March). Online comprehension of object wh-questions: Eye-tracking evidence against syntactic gap filling. *Poster presented at the annual CUNY Sentence Processing Conference*. Columbus, OH, USA.
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