

Anastasiya Lopukhina, PhD

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I am a researcher interested in how we acquire **language and reading across the lifespan**, and why some people do it better than others. I study these questions using tools from cognitive science. I have strong expertise in **eye tracking** and am committed to promoting transparency and reproducibility in research. I am also passionate about making science accessible to the wider community and engaging diverse voices in research to drive meaningful societal change.

EDUCATION

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| 2011 | Candidate of Sciences (equivalent to PhD) in Linguistics, Faculty of Philology, Lomonosov Moscow State University, Moscow, Russia |
| 2008 | Specialist (equivalent to MA) in Philology (cum laude), Faculty of Philology, Lomonosov Moscow State University, Moscow, Russia |

ACADEMIC APPOINTMENTS

- | | |
|------------|---|
| 2023-2026 | Postdoctoral Research Fellow / Royal Holloway, University of London, UK |
| 09-12/2022 | Lecturer in Psycholinguistics / Russian Presidential Academy of National Economy and Public Administration (RANEPA), Moscow, Russia |
| 2016-2022 | Research Fellow / Center for Language and Brain, HSE University, Moscow, Russia |
| 2012-2022 | Research Fellow / Russian Language Institute (Russian Academy of Sciences), Moscow, Russia |
| 2009-2016 | Teacher of Russian Language and Linguistics / Secondary school №179, Moscow, Russia |

PUBLICATIONS

Under review

- (1) **Lopukhina, A.**, Eremicheva, T., Dragoy, O., & Parshina, O. (under review). Spatial parameters of eye-movement control during reading in Russian-speaking children. *Journal of Experimental Child Psychology*. Preprint: https://doi.org/10.31234/osf.io/6e7ph_v1
- (2) **Lopukhina, A.**, Zdorova, N., Staroverova, V., Ladinskaya, N., Kaprielova, A., Goldina, S., Vedenina, O., Bartseva, K., & Dragoy, O. (under review). Benchmark measures of eye movements during reading in Russian children. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Preprint: <https://doi.org/10.31234/osf.io/2x5pk>

- (3) Lelik, V., Diachkova, M., Dorofeeva, S. V., **Lopukhina, A.**, Dragoy, O., & Sekerina, I. A. (under review). RusLan-M: Longitudinal Multimedia Corpus of Early Child Speech in Russian. *Language Resources and Evaluation*. Resources: <https://childes.talkbank.org/access/Slavic/Russian/RusLan.html>
- (4) Loshchinina, V., Dragoy, O., & **Lopukhina, A.** (submitted). Perceptual span in Russian-speaking primary-school children and its association with individual differences. *Reading and Writing*.

Journal articles (peer-reviewed)

- (5) **Lopukhina, A.**, Cooper, H., Hsieh, C.-Y., van Heuven, W., & Rastle, K. (2026). No evidence that same-language subtitles improve children's reading fluency. *British Journal of Psychology*, 1-18. <https://doi.org/10.1111/bjop.70066>
- (6) Novoselova, K., **Lopukhina, A.**, Gomozova, M., Fedorov, M., Davydova, E., Pereverzeva, D., Sorokin, A., Tyushkevich, S., Mamokhina, U., Danilina, K., Dragoy, O., & Arutiunian, V. (2026). The difference in language profiles of children with Autism Spectrum Disorder and Down Syndrome is not driven by non-verbal cognition. *International Journal of Language and Communication Disorders*, 61(1), e70177. <https://doi.org/10.1111/1460-6984.70177>
- (7) Apresjan, V., Orlov, A., Koncha, K., Loshchinina, V., **Lopukhina, A.** (2026). Metaphor in the mental lexicon: Investigating different types of polysemy via eye-tracking and behavioral experiments. *Metaphor and Symbol*, 41(1), 5-38. <https://doi.org/10.1080/10926488.2025.2525076>
- (8) **Lopukhina, A.**, van Heuven, W. J. B., Crowley, R., & Rastle, K. (2025). Where do children look when watching videos with same-language subtitles? *Psychological Science*, 36(4), 223-236. <https://doi.org/10.1177/09567976251325789>
- (9) Laurinavichyute, A., Zuibanova, A., & **Lopukhina, A.** (2024). Eye-Movement Suppression in the Visual World Paradigm. *Open Mind: Discoveries in Cognitive Science*, 8, 1012-1036. https://doi.org/10.1162/opmi_a_00157
- (10) Gomozova, M., Lezzhova, V., Dragoy, O., & **Lopukhina, A.** (2024). Testing the continuum/spectrum model in Russian-speaking children with and without developmental language disorder. *Journal of Speech, Language, and Hearing Research*, 67(5), 1461-1477. https://doi.org/10.1044/2024_JSLHR-23-00596
- (11) Chrabaszcz, A., Ladinskaya, N., & **Lopukhina, A.** (2023). Acquisition of Russian noun case by bilingual children: lexical cues to case assignment in real and novel words. *Language Acquisition*, 32(1), 23-51. <https://doi.org/10.1080/10489223.2023.2201598>
- (12) Zdorova, N., Malyutina, S., Laurinavichyute, A., Kaprielova, A., Zuibanova, A., & **Lopukhina, A.** (2023). Do we rely on good-enough processing in reading under auditory and visual noise? *PLoS ONE* 18(1), e0277429. <https://doi.org/10.1371/journal.pone.0277429>
- (13) Staroverova, V., **Lopukhina, A.**, Zdorova, N., Ladinskaya, N., Vedenina, O., Goldina, S., Kaprielova, A., Bartseva, K., & Dragoy, O. (2023). Phonological and orthographic parafoveal processing during silent reading in Russian children and adults. *Journal of Experimental Child Psychology*, 226, 105571. <https://doi.org/10.1016/j.jecp.2022.105571>
- (14) Shalileh, S., Ignatov, D., **Lopukhina, A.**, & Dragoy, O. (2023). Identifying dyslexia in school pupils from eye movement and demographic data using artificial intelligence. *PLoS ONE* 18(11), e0292047. <https://doi.org/10.1371/journal.pone.0292047>
- (15) Parshina, O., **Lopukhina, A.**, & Sekerina, I. A. (2022). Can Heritage Speakers Predict Lexical and Morphosyntactic Information in Reading? *Languages*, 7(1), 1-19. <https://doi.org/10.3390/languages7010060>
- (16) Parshina, O., **Lopukhina, A.**, Goldina, S., Iskra, E., Serebryakova, M., Staroverova, V., Zdorova, N., & Dragoy, O. (2022). Global reading processes in children with high risk of dyslexia: a scanpath analysis. *Annals of Dyslexia*, 72, 403-425. <https://doi.org/10.1007/s11881-021-00251-z>

- (17) Arutiunian, V., **Lopukhina, A.**, Minnigulova, A., Shlyakhova, A., Davydova, E., Pereverzeva, D., Sorokin, A., Tyushkevich, S., Mamokhina, U., Danilina, K., & Dragoy, O. (2021). Language Abilities of Russian Primary-School-Aged Children with Autism Spectrum Disorder: Evidence from Comprehensive Assessment. *Journal of Autism and Developmental Disorders*, 52(2), 584-599. <https://doi.org/10.1007/s10803-021-04967-0>
- (18) Arutiunian, V., **Lopukhina, A.**, Minnigulova, A., Shlyakhova, A., Davydova, E., Pereverzeva, D., Sorokin, A., Tyushkevich, S., Mamokhina, U., Danilina, K., & Dragoy, O. (2021). Expressive and receptive language in Russian primary-school-aged children with Autism Spectrum Disorder. *Research in Developmental Disabilities*, 117, 104042. <https://doi.org/10.1016/j.ridd.2021.104042>
- (19) Parshina, O., Sekerina, I. A., **Lopukhina, A.**, & von der Malsburg, T. (2021). Monolingual and Bilingual Reading Processes in Russian: An Exploratory Scanpath Analysis. *Reading Research Quarterly*, 57(2), 469-492. <https://doi.org/10.1002/rrq.414>
- (20) **Lopukhina, A.**, Lopukhin, K., & Laurinavichyute, A. (2021). Morphosyntactic but not lexical corpus-based probabilities can substitute for cloze probabilities in reading experiments. *PLOS One*, 16(1), e0246133. <https://doi.org/10.1371/journal.pone.0246133>. Website: <http://lm.ll-cl.org/>
- (21) **Lopukhina, A.**, Laurinavichyute, A., Malyutina, S., Ryazanskaya, G., Savinova, E., Simdianova, A., Antonova A., & Korkina, I. (2021). Reliance on semantic and structural heuristics in sentence comprehension across the lifespan. *Quarterly Journal of Experimental Psychology*, 75(7), 1367-1381. <https://doi.org/10.1177/17470218211053263>
- (22) Apresjan, V., **Lopukhina, A.**, & Zarifyan, M. (2021). Representation of Different Types of Adjectival Polysemy in the Mental Lexicon. *Frontiers in Psychology*, 12, 742064. <https://doi.org/10.3389/fpsyg.2021.742064>
- (23) Arutiunian, V., & **Lopukhina, A.** (2020). The effects of phonological neighborhood density in childhood word production and recognition in Russian are opposite to English. *Journal of Child Language*, 47(6), 1244-1262. <https://doi.org/10.1017/S0305000920000112>
- (24) Yurchenko, A., **Lopukhina, A.**, & Dragoy, O. (2020). Metaphor Is Between Metonymy and Homonymy: Evidence From Event-Related Potentials. *Frontiers in Psychology*, 11, 2113. <https://doi.org/10.3389/fpsyg.2020.02113>
- (25) Nikiforova, A., **Lopukhina, A.**, Malyutina, S., Laurinavichyute, A., Ryazanskaya, G., Savinova, E., & Simdianova, A. (2019). Good-Enough Sentence Processing in Adolescents and Adults under No-Noise and Auditory-Linguistic-Noise Conditions. *The Russian Journal of Cognitive Science*, 6(2), 25-32. [Available here](#)
- (26) **Lopukhina, A.**, Laurinavichyute, A., Lopukhin, K., & Dragoy, O. (2018). The mental representation of polysemy across word classes. *Frontiers in Psychology*, 9, 192. <https://doi.org/10.3389/fpsyg.2018.00192>

Proceedings and chapters (peer-reviewed)

- (27) Laurinavichyute, A., **Lopukhina, A.**, & Reich, D. R. (2025). Automatic detection of dyslexia based on eye movements during reading in Russian. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics*. Association for Computational Linguistics. Preprint: https://doi.org/10.31234/osf.io/cu4xj_v2
- (28) Panchenko A., **Lopukhina A.**, Ustalov D., Lopukhin K., Arefyev, N., Leontyev A., & Loukachevitch N. (2018). Russe'2018: A shared task on word sense induction for the Russian language. In: *Computational Linguistics and Intellectual Technologies. Dialogue*, 547-564. <https://arxiv.org/pdf/1803.05795>. Website: <https://russe.nlp.org/2018/wsi/>
- (29) **Lopukhina, A.**, Lopukhin, K., & Nosyrev, G. (2017). Automated word sense frequency estimation for Russian nouns. In: *Quantitative Approaches to the Russian Language*, 89-104. <https://doi.org/10.4324/9781315105048>. Website: <http://sensefreq.ruslang.ru>

- (30) **Lopukhina A.** & Lopukhin, K. (2017). Word Sense Frequency Estimation for Russian: Verbs, Adjectives, and Different Dictionaries. In: *Electronic lexicography in the 21st century. Proceedings of eLex 2017 conference*. Brno: Lexical Computing CZ s.r.o, 267-280.
<https://elex.link/elex2017/wp-content/uploads/2017/09/paper16.pdf>
- (31) Lopukhin, K., Iomdin, B., & **Lopukhina, A.** (2017). Word sense induction for Russian: deep study and comparison with dictionaries. In: *Computational Linguistics and Intellectual Technologies. Dialogue*, pp. 121-134. <https://dialogue-conf.org/media/3927/lopukhinkaetal.pdf>
- (32) **Lopukhina, A.** & Lopukhin, K. (2016). Regular polysemy: from sense vectors to sense patterns. In: *The 26th International Conference on Computational Linguistics (COLING 2016)*, 19-23.
<https://aclanthology.org/W16-5303/>. Website: <http://adagram.ll-cl.org/about>
- (33) **Lopukhina A.**, Lopukhin, K., Iomdin B., & Nosyrev, G. (2016). The Taming of the Polysemy: Automated Word Sense Frequency Estimation for Lexicographic Purposes. In: *Proceedings of the XVII EURALEX International Congress. Lexicography and Linguistic Diversity (6 – 10 September 2016)*. Tbilisi: Ivane Javakhishvili Tbilisi State University, 249-256. <https://euralex2016.ge/publication2016.pdf>
- (34) Iomdin, B., **Lopukhina, A.**, Lopukhin, K., & Nosyrev, G. (2016). Word sense frequency of similar polysemous words in different languages. In: *Computational Linguistics and Intellectual Technologies. Dialogue*, pp. 214-225. <https://dialogue-conf.org/media/3395/iomdinbletal.pdf>
- (35) Lopukhin, K., & **Lopukhina, A.** (2016). Word sense disambiguation for Russian verbs using semantic vectors and dictionary entries. In: *Computational Linguistics and Intellectual Technologies. Dialogue*, pp. 393-405.
<https://dialogue-conf.org/media/3408/lopukhinkalopukhinaaa.pdf>
- (36) Lopukhin, K., **Lopukhina A.**, & Nosyrev, G. (2015). The Impact of Different Vector Space Models and Supplementary Techniques on Russian Semantic Similarity Task. In: *Computational Linguistics and Intellectual Technologies. Dialogue*, 2(14), pp. 145-154.
<https://dialogue-conf.org/digests/dialog2015/materials/pdf/LopukhinKAetal.pdf>
- (37) Iomdin, B., **Lopukhina A.**, & Nosyrev, G. (2014). Towards a Word Sense Frequency Dictionary. In: *Computational Linguistics and Intellectual Technologies. Dialogue*, 13, pp. 204-229. In Russian.
<https://dialogue-conf.org/digests/dialog2014/materials/pdf/IomdinBL.pdf>

Journal articles in Russian (peer-reviewed)

- (38) Gomozova, M., Kolesnikova, A., & **Lopukhina, A.** (2025). "Basic Morphology" Test — a new standardized tool for assessing morphological competence in preschool children. *Voprosy Psikhologii*, 71(1), pp. 120-132.
<https://www.voppsy.ru/cnew25N1.htm>
- (39) Zdorova, N., Staroverova, V., **Lopukhina, A.**, Dzhonboboeva, D., Pareshina, E., Shestakova, E., Gmyrina, V., Dmitrova, E., & Dragoy, O. (2025) Reading assessment tool "LexiMetr" for Russian-speaking primary school students. *Educational Studies Moscow*, 2, pp. 73–100. <https://doi.org/10.17323/vo-2025-21693>
- (40) Staroverova, V., **Lopukhina, A.**, Zdorova, N., & Dragoy, O. (2023). Rapid automatized naming test: normative data for the Russian language and RAN-reading relationship. *Voprosy Psikhologii*, 69(6), pp. 24-33.
<http://www.voppsy.ru/cnew23N6.htm>
- (41) Dragoy, O., Dorofeeva, S., **Lopukhina, A.**, Bolgina, T., Parshina, O., & Laurinavichyute, A. (2022). Phonological deficit and its brain correlates in children with developmental dyslexia. *Russian Foundation for Basic Research Journal (Humanities and social sciences)*, 2(109), pp. 145-158.
https://www.rfbr.ru/rffi/ru/bulletin_humanities_social/o_2129604
- (42) Zdorova, N., Kapriellova, A., **Lopukhina, A.**, Bartseva, K., Vedenina, O., Goldina, S., Staroverova, V., & Dragoy, O. (2021). The impact of phonological and orthographic processing on reading speed in Russian-speaking children. *The Russian Journal of Cognitive Science*, 8(1–2), pp. 4–13.
cogjournal.org/eng/8/2/ZdorovaetalRJCS2021.html. Data and analysis code are available from

<https://osf.io/pq4a3/>

- (43) Pereverzeva, D. S., Mamokhina, U. A., Davydova, E. Yu. **Lopukhina, A.**, Arutiunian, V. G. & Khaustov, A. V. (2021). Receptive language in primary-school-aged children with Autism Spectrum Disorder. *Clinical Psychology and Special Education, 10* (4), pp. 137–161. <https://doi.org/10.17759/cpse.2021100407>
- (44) Apresjan, V., Apresyan, Ju., Dragoy, O., Iomdin, B., Laurinavichyute, A., Levontina, I., Lopukhin, K., **Lopukhina, A.**, & Uryson, E. (2019). A multifaceted approach to semantic, statistical, and psycholinguistic analysis of lexical polysemy. *Russian Speech, 1*, pp. 8-17. <https://doi.org/10.31857/S013161170003937-9>
- (45) Agris, A., Atsarkina, N., & **Lopukhina, A.** (2018). The 8th International Conference on Cognitive Science (Svetlogorsk, Russia). *The Russian Journal of Cognitive Science, 5*(4), pp. 47–56. <https://publications.hse.ru/pubs/share/direct/372152887.pdf>

FUNDING

- 2022 – mini-grant from the University of Potsdam (€3,252), *Collaboration in methods on infant studies*. Co-principal investigator with Dr Mireia Marimon. Grant was recalled following the Russian attack on Ukraine.
- 2019-2021 – grant from the Russian Foundation for Basic Research (RUB 10 million; approx. £121,000), *Reading acquisition in Russian-speaking school students: an eye-tracking study of linguistic processing contribution to mastering reading skills*. Named researcher (awarded to Prof Olga Dragoy).
- 2018-2020 – grant from the Russian Foundation for Basic Research (RUB 2.1 million; approx. £25,000), *Good-enough language processing: the impact of age and noise*. Principal investigator.
- 2017-2018 – personal research funding from HSE University for early-career researchers.

CONFERENCE ACTIVITIES

A full list of talks and posters is available at <https://lopukhina.com/>

Organizer

- Organiser of the symposium “Eye Movements in Reading Acquisition” at the European Society for Cognitive Psychology Meeting (ESCoP 2025) <https://www.escop2025.com/event-programme>
- Co-organiser of the Eighth annual Summer Neurolinguistics School “The science of reading: From brain to behavior and back again” https://www.hse.ru/en/neuroling/summer_school_2021
- Co-organiser of the Seventh annual Summer Neurolinguistics School “Child Language Development” https://www.hse.ru/en/neuroling/summer_school_2020
- Organiser of the satellite event “Typical and Atypical Language Development Symposium (TALDS 2019)” at the 25th AMLaP conference in Moscow https://www.hse.ru/en/neuroling/talds_2019

Invited and guest talks (selected)

- 2025 – Current Opinion on Audiovisual Integration and Reading webinar. *Can same-language subtitles help children learn to read?*.
- 2023 – UiT The Arctic University of Norway. *Reading development in different orthographies*.
- 2019 – University of Potsdam. *Sentence processing in adolescents*.
- 2019 – UiT The Arctic University of Norway. *Studies of child language development in Russia*.

MEMBERSHIP AND PROFESSIONAL SERVICE

Experimental Psychology Society ordinary member since January 2026

Editorial board member: *Reading Research Quarterly*

Peer review: *Psychological Science, Psychonomic Bulletin & Review; Scientific Reports; Bilingualism: Language and Cognition; Developmental Science; Journal of Cognitive Psychology; Journal of Vision; Frontiers in Psychology*