

Anna Dreneva, Ph.D.

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Summary

My primary research focus is cognitive psychology and especially vision science, in which I have been working for more than 10 years. I'm particularly interested in the fundamentals of both visual perception and attention, and in how our visual system transforms over time and with experience. I have also investigated practical applications of vision science's findings in hearing loss intervention, pediatric neuro-oncology, school education, and consumer decision making.

Education

- 01 Dec 2021 PhD in *Cognitive Psychology*
Department of Psychology, Lomonosov Moscow State University, Russia
Title: “*Extrafoveal perception of geometric shapes: General tendencies and individual variations*”.
- 2015 – 2018 Postgraduate Studies in *Psychology Research and Teaching* (216 ECTS)
Department of Psychology, Lomonosov Moscow State University, Russia
- 2010 – 2015 Specialist (BS+MS equivalent) in *Clinical Psychology*
Diploma with Honours
Department of Psychology, Lomonosov Moscow State University, Russia

Academic experience

- 2026 – *Assistant Professor*
Department of Psychology and Behavioural Sciences, Aarhus University, Denmark
- 2024 – 2026 *Postdoc*
Department of Health Technology, Technical University of Denmark, Denmark
- 2022 – 2024 *Postdoc*
Department of Management, Aarhus University, Denmark
- 2019 – 2022 *Researcher*
Department of Psychology, Lomonosov Moscow State University, Russia
- 2016 – 2018 *Research Assistant*
Neurocognitive Laboratory, National Research Center of Pediatric Hematology, Oncology and Immunology, Russia

Research areas

Visual attention and perception; Eye tracking; Visual search; Perceptual decision making; Individual differences; Listening-related fatigue; Psychooncology; Neuropsychology; Cognitive rehabilitation.

Teaching

Cognitive psychology (lecturer); Research methods 3 (instructor); Theory-practice teaching (supervisor); Vision science (course coordination & seminars).

Academic service

- A country representative for Denmark in the *Nordic Vision Science Network (NVSN)* and a member of the network's steering group, contributing to strategic and organizational decisions.
- An invited reviewer for prestigious journals, such as *PLOS One*, *Visual Cognition*, *Cerebellum*, *Vision*, *Trends in Hearing*.
- Open science contributor

Grants and awards

- Principal investigator (2019–2020) “Cognitive impairments and opportunities for their correction in children who survived posterior fossa tumors: An analytical review” funded by the Russian Foundation for Basic Research.
- Co-Principal investigator (2020–2021) “Possibilities And Limitations of Extrafoveal Perception: An Analytical Review” funded by the Russian Foundation for Basic Research.
- Member of the winning national team and world finalist (2021) The project “Rationale for implementing psycho-oncology service in Russia” won the national level of ESOMAR Research Got Talent competition of volunteer projects and was presented globally as a finalist.

Languages

Danish (C1); English (C1); Russian (native).

Selected publications

1. **Dreneva, A.** & Orquin, J. (2026). Consumer search patterns in online retailing. *Journal of Retailing*, in press.
2. Chumachenko, D., Shvarts, A., **Dreneva, A.**, & Krichevets, A. (2025). Eye movements in the development of geometric shape recognition: from sensory-motor processes to theoretical perception. *Educational Studies in Mathematics*, 118(3), 529–554.
3. Larigaldie, N., **Dreneva, A.**, & Orquin, J. (2024) eyeScrollR: A software method for reproducible mapping of eye tracking data from scrollable web pages. *Behavior Research Methods*, 56(4), 3380–3395.
4. Neshitov, A., Tyapochkin, K., Kovaleva, M., **Dreneva, A.**, Surkova, E., Smorodnikova, E., & Pravdin, P. (2023). Estimation of cardiorespiratory fitness using heart rate and step count data. *Scientific Reports*, 13, 15808.
5. Mironets, S., Shurupova, M., & **Dreneva, A.** (2022). Reading in Children Who Survived Cerebellar Tumors: Evidence from Eye Movements. *Vision*, 6(1), 10.
6. **Dreneva, A.** & Devyaterikova, A. (2022). Comparative Analysis of Cognitive, Motor, and Visual-Motor Functions in Pediatric Acute Lymphoblastic Leukemia Survivors With and Without Allogeneic Hematopoietic Stem Cell Transplantation. *Archives of Clinical Neuropsychology*, 37(7), 1493–1501.

7. **Dreneva, A.**, Shvarts, A., Chumachenko, D., & Krichevets, A. (2021). Extrafoveal Processing in Categorical Search for Geometric Shapes: General Tendencies and Individual Variations. *Cognitive Science*, 45(8), e13025.
8. **Dreneva, A.**, Chernova, U., Ermolova, M., & MacInnes, W. J. (2021). Attention Trade-Off for Localization and Saccadic Remapping. *Vision*, 5(2), 24.
9. **Dreneva, A.** & Krichevets, A. (2021). Analysis of Individual Categorical Visual Search Strategies. *Neuroscience and Behavioral Physiology*, 51(9), 1-6.
10. Krichevets, A. & **Dreneva, A.** (2021). Bonferroni correction and evaluation of means versus overall assessment. Proceedings of the First National Congress on Cognitive Research, Artificial Intelligence, and Neuroinformatics: Ninth International Conference on Cognitive Science, 382–385.
11. **Dreneva, A.** & Skvortsov, D. (2020). Postural balance in pediatric posterior fossa tumor survivors: Through impairments to rehabilitation possibilities. *Clinical Biomechanics*, 71, 53-58.
12. **Dreneva, A.** (2020). Categorical search of three-dimensional shapes by participants with different levels of mathematical expertise. *National Psychological Journal*, 1(37), 57–65.
13. Soldatova, G., Chigarkova, S., & **Dreneva, A.** (2019). Features of media multitasking in school-age children. *Behavioral Sciences*, 9(12), 130.
14. **Dreneva, A.**, Krichevets, A., Chumachenko, D., & Shvarts, A. (2019). Extrafoveal analysis of categorically defined three-dimensional shapes. *Siberian Psychological Journal*, 72, 68–92.
15. Krichevets, A., Shvarts, A., Chumachenko, D., & **Dreneva, A.** (2017). Capabilities of extrafoveal perception of geometric shapes. *Issues of Psychology*, 6, 117–128.