

Maria Korochkina, PhD

✉ maria.korochkina@rhul.ac.uk

🐙 [mariakna](#)

🆔 0000-0002-8017-7855

⚙️ [zf8px](#)

📄 [TizAD-YAAAAJ](#)

📊 [Maria-Korochkina-2](#)

🗨️ [neuromatch.social/@mariakna](#)

I am a cognitive neuroscientist studying language and memory, with **advanced technical skills** in data analysis and statistics. I have a strong commitment to **open science** and am actively involved in promoting transparency and reproducibility in research. I am passionate about **making research accessible** to the wider community and strive to **engage diverse voices in research** to drive meaningful societal change.

Education and qualifications

- 2018 – 2022 📖 **PhD in Cognitive Science**
Joint degree from Macquarie University (Australia) and Universities of Potsdam (Germany), Newcastle upon Tyne (UK), Groningen (Netherlands), Trento (Italy), [IDEALAB PhD programme](#)
- 2015 – 2018 📖 **MSc in Experimental and Clinical Linguistics**
University of Potsdam, Germany, [IECL programme](#)
- 2010 – 2015 📖 **BA & MA in Philology**
Lomonosov Moscow State University, Russia

Academic employment

- 06/2022 – ongoing 📖 **Postdoctoral Research Fellow**, [Rastle Lab](#), Royal Holloway, University of London, UK
- 02/2020 – 06/2022 📖 **Academic Tutor**, Macquarie University, Australia
- 07/2016 – 08/2018 📖 **Research Assistant**, [NOLA Lab](#) & [Vasishth Lab](#), University of Potsdam, Germany

Teaching and educating

- 10/07/2024 📖 **Instructor**, 31st annual meeting of the Society for the Scientific Study of Reading
[Pre-registration & Open Materials: The What, Why, & How](#)
Workshop "Opening up Open Science: Nuts and Bolts for Beginners"
- 27/03/2023 📖 **Workshop instructor**, Royal Holloway, University of London
[Bayesian Linear Mixed Effects and Distributional Regression models with brms](#)
- 7/11/2022 – ongoing 📖 **Instructor**, [ReproducibiliTea journal club](#), Royal Holloway, University of London
- 02/2020 – 06/2022 📖 **Academic Tutor**, Macquarie University
Session 1, 2021 & 2022: [Design and Statistics III](#)
Session 2, 2020 & 2021: [Design and Statistics II](#)
Session 2, 2020 & 2021: [Acquired Speech and Language Disorders](#)
Session 1, 2020: [Exp Design and Data Analysis for the Cognitive and Brain Sciences](#)
- 18/02/2021 📖 **Workshop instructor**, Macquarie University
[Data analysis using \(generalised\) linear mixed effects models in R](#)
- 21–25/09/2020 📖 **Instructor**, [Introduction to R Software Carpentry workshop](#), Macquarie University

Publications

Pre-registrations, data, materials, analysis code, and pre-prints for all papers are available on OSF (<https://osf.io/zf8px/>).

Under review

- 1 **Korochkina, M.**, & Rastle, K. (2024a). Morphology in children's books: What's there and what's useful for learning? [Pre-print]. <https://doi.org/10.31219/osf.io/63pb4>
- 2 **Korochkina, M.**, & Rastle, K. (2024b). The vocabulary barrier in the General Certificate of Secondary Education (GCSE) in English Literature [Pre-print]. <https://doi.org/10.31219/osf.io/vg8c3>

Peer-reviewed

- 1 Crawford, M., Raheel, N., **Korochkina, M.**, & Rastle, K. (2024). Inadequate foundational decoding skills constrain global literacy goals for pupils in low- and middle-income countries. *Nature Human Behaviour*. <https://doi.org/10.1038/s41562-024-02028-x>
- 2 **Korochkina, M.**, Marelli, M., Brysbaert, M., & Rastle, K. (2024). The Children and Young People's Books Lexicon (CYP-LEX): A large-scale lexical database of books read by children and young people in the United Kingdom [Published online ahead of print]. *Quarterly Journal of Experimental Psychology*. <https://doi.org/10.1177/17470218241229694>
- 3 **Korochkina, M.**, Nickels, L., & Bürki, A. (2024). What can we learn about integration of novel words into semantic memory from automatic semantic priming? *Language, Cognition, and Neuroscience*, 39(4), 455–488. <https://doi.org/10.1080/23273798.2024.2328586>
- 4 Lombard, A., Ulicheva, A., **Korochkina, M.**, & Rastle, K. (2024). The regularity of polysemy patterns in the mind: Computational and experimental data. *GLOSSA Psycholinguistics*, 3(1), 3, 1–24. <https://doi.org/10.5070/G60111327>
- 5 **Korochkina, M.**, Sowman, P., Nickels, L., & Bürki, A. (2023). Neural correlates of encoding in novel word learning. *Collabra: Psychology*, 9(1), 57525. <https://doi.org/10.1525/collabra.57525>
- 6 **Korochkina, M.**, Bürki, A., & Nickels, L. (2021). Apples and oranges: How does learning context affect novel word learning? *Journal of Memory and Language*, 120, 104246. <https://doi.org/10.1016/j.jml.2021.104246>

Outreach contributions

Publications




- 1 **Korochkina, M.**, & Rastle, K. (2024c, August). *What makes GCSE English Literature so hard for students?*, Tes Magazine. <https://www.tes.com/magazine/teaching-learning/secondary/what-makes-gcse-english-lit-so-hard-students>
- 2 **Korochkina, M.**, & Rastle, K. (2024d). *What words do children encounter when they read for pleasure?* [Also available on <https://www.rastlelab.com/post/what-words-do-children-encounter-when-they-read-for-pleasure>], Nomanis, Issue 27. <https://www.nomanis.com.au/blog/issue-17-june-2024>

Talks








- 1 **Korochkina, M.** (2024d, June). *What does it take to read and understand the GCSE English Literature texts?* Working Together: Research and Practice event 2024, The South East Research Network for Schools, Egham, UK. <https://www.royalholloway.ac.uk/research-and-teaching/departments-and-schools/psychology/research/serns/serns-events/2024/>

- 2 **Korochkina, M., & Rastle, K.** (2024e, September). *Words in books: A challenge, a blessing, or both?* (Invited talk). ResearchED National Conference, London, UK.
<https://researched.org.uk/event/researched-national-conference-2024/>






Academic and administrative service

- Peer-review  **Reviewer** for Psychonomic Bulletin & Review; Behavior Research Methods; Journal of Memory and Language; Instructional Science; Language, Cognition, & Neuroscience; Journal of Research in Reading; Advances in Cognitive Psychology; Language and Speech; Psychology & Neuroscience, Applied Psycholinguistics
- Open science  **Organiser**, [ReproducibiliTea journal club](#)
Royal Holloway, University of London
- Equality, diversity, & inclusion  **Postdoc representative** in a successful bid for the Athena Swan Silver award, Royal Holloway, University of London




Awards and funding

- 2023  **Student Researcher Credibility Prize**, The British Neuroscience Association
Read the media announcement [here](#).
- 2021  **Funding award** for an 8-week Instructor Training with [The Carpentries](#), Macquarie University
- 2020  **Postgraduate Research Fund**, Macquarie University
- 2019–2022  **International Research Excellence PhD Scholarship**, Macquarie University
- 2019  **Conference travel & participant recruitment awards**, University of Potsdam
- 2018–2019  **PhD Scholarship**, University of Potsdam
- 2012 & 2014  **Student exchange awards**, University of Vienna, Austria

Scientific societies

-  [The British Neuroscience Association](#)
-  [The Experimental Psychology Society](#)
-  [Society for the Scientific Study of Reading](#)
-  [The European Society for Cognitive Psychology](#)
-  [The Psychonomic Society](#)

Skills









- Experimental techniques  Behavioural, EEG, eye-tracking, fNIRS
Corpus linguistics, computational modelling
- Programming languages & software  MATLAB, Python, R, Stan, Presentation Neurobehavioural Systems
Stata, HTML, OpenSesame, \LaTeX
- Languages  English, German, Russian, Swedish, Icelandic (beginner)
British Sign Language (beginner)

Selected talks

A full list of talks and posters (including slide decks) is available on my website (<https://mariakna.github.io>).

- 1 **Korochkina, M.** (2024b, July). *The nature of morphemic regularities in children's literature: What do British children learn about derivational morphology when they read?* Talk given at the 31st annual meeting of the Society for the Scientific Study of Reading, Copenhagen, Denmark.
- 2 **Korochkina, M.** (2024c, July). *What can children learn about English morphology through book reading?* Talk given at the annual meeting of the Experimental Psychology Society, York, UK.
- 3 **Korochkina, M.** (2023a, September). *Apples and oranges: How does learning context affect novel word learning?* Talk given at the Contextual Diversity Workshop organised by the Experimental Psychology Society, London, UK.
- 4 **Korochkina, M.** (2023b, January). *Behavioural and electrophysiological markers of integration in novel word learning.* Talk given at the annual meeting of the Experimental Psychology Society, London, UK.
- 5 **Korochkina, M.** (2023c, September). *The Children and Young People's Books Lexicon (CYP-LEX): A lexical database of books directed at children and young adults.* Talk given at the 23rd meeting of the European Society for Cognitive Psychology, Porto, Portugal.
- 6 **Korochkina, M.** (2023d, July). *The Children and Young People's Books Lexicon (CYP-LEX): How does book language change as children transition into and through adolescence?* Talk given at the annual meeting of the Experimental Psychology Society, Swansea, UK.
- 7 **Korochkina, M.** (2023e, December). *Vocabulary and morphological complexity in books popular with british children.* Talk given at a meeting of the Forum for Research in Literacy and Language (FRiLL), Reading, UK.
- 8 **Korochkina, M.** (2023f, September). *What do children read as they transition into and through adolescence? Insights from CYP-LEX, a new large-scale lexicon of books for children and young people.* Talk given at the annual meeting of the Cognitive and Developmental sections of the British Psychological Society, Bristol, UK.
- 9 **Korochkina, M.** (2021, October). *Behavioural and electrophysiological markers of integration in novel word learning.* Talk given at the annual meeting of the Society for the Neurobiology of Language, online attendance.
- 10 **Korochkina, M.** (2020a, October). *A behavioural and electrophysiological investigation of novel word learning.* Talk given at the Words in the World conference, online attendance.

Most recent training and development

- 2024  **Storytelling with Impact: Visual storytelling** workshop, [Nifty Fox Creative](#)
-  **Storytelling with Impact: Unleash the power of narrative** workshop, [Duncan Yellowlees Training](#)
-  **Storytelling to success: Developing your Narrative CV** workshop, University of Leeds
- 2023  **Effective Grant Writing** workshop, Royal Holloway, University of London
- 2022  **Introduction to Natural Language Processing in Python**, MOOC, DataCamp
-  **The 6th Summer School on Statistical Methods for Linguistics and Psychology**
Bayesian Advanced Track, University of Potsdam
- 2021  **Badged Instructor** training, [The Carpentries](#)
- 2020  **Understanding the Brain: The Neurobiology of Everyday Life**, MOOC, University of Chicago