

Zsuzsanna Nemecz

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Find me here

[Website](#)
[GitHub](#)
[X \(Twitter\)](#)

Language skills

English (advanced)
German (upper intermediate)
Hungarian (native speaker)

Programming languages

Python, R, C,
Shell Scripting, Matlab

Technical skills

FSL, FreeSurfer, ASHS, ANTS
MNE Python

Strengths

Endless curiosity
Quick learner
Good collaborator
Ability to work independently

Education

- 2019–Ongoing **PhD in Cognitive Psychology**
Supervisor: Dr. Attila Keresztes
Eötvös Loránd University, Budapest
- 2017 **Embedded Software Developer**
Green Fox Academy, Budapest
- 2013–2016 **Mind and Brain M.Sc.**
Humboldt-Universität zu Berlin
- 2009–2013 **Psychology B.A.**
Eötvös Loránd University, Budapest

Conference Presentations

- 2024 **Mind Brain Body Symposium - MBB** Berlin, Germany
Short Talk
Resolving Memory Interference Between Non-Meaningful Stimuli Depends on the Parahippocampal and Perirhinal Cortex, Not the Hippocampus
- 2023 **Cognitive Neuroscience Society - CNS** San Francisco, United States
Poster Presentation
Longitudinal Investigation of Medial Temporal Lobe Pathways And Mnemonic Discrimination in Aging
- 2022 **Federation of European Neuroscience Societies - FENS** Paris, France
Poster Presentation
Discriminating Memories of Items and Spatial Locations: Is there Content-Specific Mnemonic Specialization in the Human Medial Temporal Lobe?
- 2021 **Cognitive Neuroscience Society - CNS** Online
Poster Presentation
A Strong Test of Content-Specific Pattern Separation via Distinct Medial Temporal Pathways

Publications

Bencze, D., Marián, M., Szöllősi, Á., Pajkossy, P., **Nemecz, Z.**, Keresztes, K., Hermann, P., Vidnyánszky, Z., & Racsmány, M. (2024). Contribution of the lateral occipital and parahippocampal cortices to pattern separation of objects and contexts. Manuscript submitted for publication.

Keresztes, A., Bankó, É., Báthori, N., Tomacsek, V., Varga, V. A., Nárai, Á., **Nemecz, Z.**, Dénes, Á., Gál, V., Hermann, P., Simor, P., & Vidnyánszky, Z. (2023). Multi-night EEG reveals positive association between sleep efficiency and hippocampal subfield volumes in healthy aging. *bioRxiv*. <https://doi.org/10.1101/2023.11.05.565729>

Nárai, Á.*, **Nemecz, Z.***, Vidnyánszky, Z., & Weiss, B. (2022). Lateralization of orthographic processing in fixed-gaze and natural reading conditions. *Cortex*, 157, 99–116.
<https://doi.org/10.1016/j.cortex.2022.07.017>

*Equal contributions.

Scholarships and Grants

2023–2024	One-year Research Grant for Graduate Students German Academic Exchange Service - DAAD
2022–2023	ÚNKP-22-3 New National Excellence Program Hungarian Ministry for Culture and Innovation
2022, 2023	Travel Grant for Conference Attendance Talent Support Council, Eötvös Loránd University
2021	"Doctoral Projects" Research Consortium <small>Jointly with fellow PhD student Alex Ilyés</small> Faculty of Psychology, Eötvös Loránd University
2019–2023	Hungarian State Scholarship for Doctoral Students Hungarian Scholarship Board Office

Research Experience

2019–Current	Brain Imaging Center Research Centre for Natural Sciences, Budapest <i>PhD Student</i> Longitudinal, high-resolution MRI study on aging and memory Supervisor: Dr. Attila Keresztes Topic: Hippocampal subfields and pattern separation in healthy aging
2019	Brain Imaging Center Research Centre for Natural Sciences, Budapest <i>Junior Member</i> Carrying out EEG experiments and assisting with data analysis Supervisor: Dr. Béla Weiss Topic: Neural correlates of reading
2016	Center for Lifespan Psychology Max Planck Institute for Human Development, Berlin <i>Student Research Assistant</i> Creating head models for EEG source localization with Matlab Supervisors: Dr. Markus Werkle-Bergner and Dr. Myriam Sander Project: Cognitive and Neural Dynamics of Memory Across the Lifespan
2015–2016	Cognition in Neurological Disorders Group Berlin School of Mind and Brain <i>Student Research Assistant</i> Analysis of structural and functional MRI data. Supervisor: Dr. Carsten Finke Topic: Functional connectivity and cognition in early Multiple Sclerosis
2015–2016	Potsdam Embodied Cognition Group University of Potsdam <i>Student Research Assistant</i> Organizing and running experiments using EEG and TMS Supervisor: Dr. Claudia Gianelli Topic: Embodied processing of language

Teaching Experience

2020–	Supervision of Theses and Course Projects <small>Jointly with Attila Keresztes</small> Psychology Bachelor and Master's Program, Eötvös Loránd University
2020–2021	Introduction to Brain Imaging - Seminar <small>Jointly with Attila Keresztes</small> Psychology and Computational Cognitive Neuroscience Master's Program, Eötvös Loránd University
2019–2022	Experimental Methods in Psychology - Seminar Psychology Bachelor Program, Eötvös Loránd University

Professional Activities

- 2023 **Peer-review for the journal Hippocampus**
With the supervision of Dr. Attila Keresztes
- 2021–2022 **ELTE Cognitive Seminar** With Réka Schvajda and Dr. Ildikó Király
Organizer
Academic talks in the topic of cognitive neuroscience open to the public

Master Thesis

Functional Brain Networks In Clinically Isolated Syndrome

Supervisors: Dr. Carsten Finke, Dr. Arno Villringer

Summer Courses

- 2020 **Neuromatch Academy**
Summer school in computational neuroscience
- 2021 **Neurohackademy**
Summer school in neuroimaging and data science

Other Work Experience

- 2017–2018 **Model Based Function Developer**
Robert Bosch Kft, Budapest
Software development for automotive steering systems
- 2013–2014 **Hungarian Store Maintainer**
'txtr eBooks, Berlin
Writing newsletters, managing and updating the eBook webstore, and communicating with publishers and business partners