

Dorota Moravčíková

Cognitive Scientist | AI Safety Researcher

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EDUCATION

MSc Brain and Cognitive Sciences (incoming)

University of Amsterdam

09/2026 – 06/2028 | Amsterdam

- Cognitive Science track
- Admitted to a cohort of 20

Bachelor of Science: Psychology & Neuroscience

Leiden University, Netherlands

2022 – 2025 | Netherlands

- Graduated Cum Laude with Honours
- Thesis ☑ : Dual-Process Study of Mind Attribution in Social Robotics

Minor

NeuroAI: The Computing Brain ☑

Leiden-Delft-Erasmus (LDE) Alliance

- Implemented biophysical models in Python, simulating neuronal dynamics, action potentials, and emergent network behaviours

Specialisations

- Cognitive Neuroscience, Clinical Neuropsychology, Social and Organisational Psychology

Honours Classes

- Robots & Artificial Intelligence, Data Science, Argumentative and Rhetorical Strategies, Musicology

Gymnasium

Gymnázium Ružomberok

09/2016 – 05/2020 | Ružomberok

- Graduated with highest honours
- GBE Foundation Scholar (2018-2019): Selected as 1 of 3 students nationwide for a merit-based academic exchange in the United States

EXPERIENCE

10/2025 – Present

Leiden

Junior Researcher & Teaching Assistant

Leiden University's Institute of Advanced Computer Science (LIACS)

- Researching affective agent modelling within multi-agent social simulation environments, implementing valence-weighted episodic memory in generative agent architecture
- Supervising bachelor and master theses in AI, Data Science, and Creative Intelligence & Technology programmes
- Supporting faculty peer-review process (including ACL Rolling Review, Cognitive Systems Research)

10/2025 – Present

Rotterdam

NeuroAI Curriculum Designer

Erasmus University Medical Centre

- Developing computational neuroscience training materials for medical and research trainees, commissioned by Dr. Mario Negrello

02/2024 – 05/2024

Leiden

Honorary Internship in Cognitive Neuroscience

Leiden University- Faculty of Social and Behavioural Sciences

- Collected eye-tracking data for a study investigating the automaticity of attentional processing of threatening facial expressions under varying working memory loads
- Supervisors: Dr. Mario C. Severo & Dr. Manon G. J. Mulckhuyse

RESEARCH: IN PREPARATION

Mechanistic Interpretability Research

Representational Alignment Between LLM Activations and Human Neural Data

05/2026 – Present

- Collaboration with C. Berg (Reciprocal Research), R. Lulla and J. Kaplan (Brain and Creativity Institute, University of Southern California)
- Investigating correspondence between internal representations in large language models and fMRI-measured neural activity during affective and social processing, using representational similarity analysis; project in early design phase.

Affective Multi-Agent Modelling Simulation Research

Good Agent Gone Bad: When 'Bad is Stronger Than Good' in the Memory of Generative Agents

- D. Moravčíková, F. van der Veen, M. van Duijn
- Abstract accepted, *Behaviour* (Brill), ed. Prof. dr. M.E. Kret
- Short talk, European Human Behaviour and Evolution Association (EHBEA) 2026, Leiden
- Manuscript in preparation for arXiv submission

Agentic Large Language Models Textbook

- Plaat, A., Van Duijn, M., Van der Meer, M., Van Stein, N., & Moravčíková, D.
- Forthcoming, Springer
- Companion textbook for *Agentic Large Language Models*, LIACS, Leiden University
- Contributed case study chapter on instability in generative agents, grounded in original simulation research

SKILLS

Programming

- GitHub 
- Python (pandas, NumPy, SciPy, statsmodels, matplotlib), R

Research Methods

- Multi-agent social simulation (extending Park et al. 2023 architecture)
- Computational memory modelling
- Psychometric testing (explicit and implicit measures; IAT design)
- Behavioural experiments and eye-tracking data collection

Project Management

- Co-organised EHBEA 2026 conference
- Co-managed a Leiden University team during the preparatory phase of the iGEM 2025 synthetic biology competition

OUTREACH

TEDx

TEDxLeidenUniversity

04/2025

- Delivered a talk on the cognitive implications of GenAI
- Your Brain on AI: Use It or Lose It

Speaker for LUMC AI-centred events

Leiden University Medical Centre

- Arguing for GenAI being a test of critical thought
- Speaking on the role of AI in research and diagnostics

Science writing

Substack | Medium | Leiden University

- Writing on cognitive science-related topics for general audiences

AI SAFETY

01/2026 – 04/2026

Project AI 2037

AI Safety Camp

- Group research project on failure modes in advanced AI systems
- Contributed a case study analysing biological referential-misalignment analogies

Technical AI Safety

BlueDot Impact

- Completed BlueDot's intensive on alignment, interpretability, and evaluation of frontier AI systems

LANGUAGES

English

C2

French

B1

Dutch

A2

Slovak & Czech

Native