

EADM Summer School on

Large language models in behavioral science

Organized by Anne-Marie Nussberger and Dirk Wulff at the Max-Planck-Institute for Human Development on September 9-13, 2024, in Berlin.

Mission

Advances in machine learning have led to Large Language Models (LLMs) and other forms of generative Artificial Intelligence (AI) that can interpret and generate information at a level comparable to expert humans. Such models have tremendous value for research in the behavioral sciences; however, research is only beginning to exploit their potential. With this summer school, we aim to expose early career researchers to the potential of generative AI focusing on LLMs, equip them with the tools to leverage LLMs for research openly and responsibly, and showcase how behavioral scientists can help study and address the ethical, cultural, and societal challenges arising from the mass adoption of generative AI.

Program

To achieve the goals of the summer school, we propose a program consisting of the following elements:

1. Workshops - Two multi-session, hands-on workshops demonstrating the use of LLMs for behavioral science research (offered by Zak Hussain) and how to study the impact that LLMs and generative AI have on social culture (offered by Anne-Marie).
2. Keynotes - Four keynotes by prominent researchers at the intersection of behavioral science and generative AI (see schedule).
3. Talks - Three talks highlighting behavioral science research addressing challenges arising from the mass adoption of generative AI.
4. Project work - Two sessions for groups of participants to work on an idea for a joint behavioral science project on LLMs or generative AI and one session for participants to present their work.
5. Posters - One session allowing participants to present their own work.
6. Social events - Two dinners and a concluding BBQ to facilitate networking.

We aim to invite a gender-balanced faculty with diverse backgrounds spanning psychology, business, cognitive science, computer science, ethics, and industry. Non-European faculty will be invited for hybrid presentations.

	Monday	Tuesday	Wednesday	Thursday	Friday
Topic	Large language models	Large language models	Machine culture	Project work & AI Ethics	Wrap up
9:00	Welcome Intro Anne-Marie & Dirk	<i>LLM Workshop</i> Zak Hussain	<i>Keynote 3</i> Iyad Rahwan	Project work	<i>LLMs x Collective Intelligence</i> Jason Burton
10:30	Break	Break	Break	Break	Break
11:00	<i>Intro to LLMs</i> Dirk	<i>LLM Workshop</i> Zak Hussain	<i>LLM-Culture Workshop</i> Anne-Marie	Project work	<i>Corruptive potential of AI</i> Nils Köbis*
12:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:30	<i>LLM Workshop</i> Zak Hussain	Participant posters	<i>LLM-Culture workshop</i> Anne-Marie	<i>AI & Morality</i> Zoë Purcell	Participant presentations
15:00	Break	Break	Break	Break	Break
1530	<i>Keynote 1</i> Eric Schulz*	<i>Keynote 2</i> Claudia Wagner*	<i>AI safety</i> Laura Weidinger*	<i>Keynote 4</i> Melanie Mitchell*	BBQ
Evening	Dinner	Dinner			BBQ

* to be confirmed

Venue

The summer school will be held at the Max-Planck-Institute for Human Development, an internationally renowned institution with two centers – the Center for Humans and Machines and the Center for Adaptive Rationality – conducting research at the intersection of behavioral science and Artificial Intelligence. The institute provides all of the necessary infrastructure to conduct a successful summer school.

Participants

Up to 30 early career researchers will be invited to join the summer school. Participants will be selected based on applications, including a short abstract and motivation statement, and diversity considerations. Participants will present posters during the summer school so that their institutions can cover travel and housing expenses.

Budget

The funds will be used to finance six external speakers from Europe (€600 each) and three dinners (€800 each). The Max-Planck-Institute for Human Development will cover refreshments during the breaks and costs for the venue and technical support.