



Machine Learning in Science

Conference on 30 September - 1 October 2025 in Tübingen

VENUE – Neckawa (Wöhrdstraße 25, 72072 Tübingen)

TUESDAY, 30 September 2025

09:00	Opening Remarks Ulrike von Luxburg, Philipp Berens, Jakob Macke (Speakers of the Cluster of Excellence “Machine Learning”, University of Tübingen)
09:15	Towards an Artificial Muse for new Ideas in Science Mario Krenn (Cluster of Excellence “Machine Learning”, University of Tübingen)
10:00	Automating Systematic Reviews Harry Scells (Faculty of Medicine, University of Tübingen)
10:45	Coffee Break
11:15	AI in Economics: Research Tool and Research Subject Philine Widmer (Keynote) (Paris School of Economics)
12:00	AI for Computational and Cognitive Neuroscience and Psychiatry Trangh Anh Nghiem (confirmed) (Hertie Institute for AI in Brain Health, University of Tübingen)
12:20	Psychophysics in Translational Biomedical Image Analysis Florian Kofler (Hertie Institute for AI in Brain Health, University of Tübingen)
12:40	On the Connection between Oma Inge and My Research on Autonomous Driving (winning talk at the TAPPA science slam in June 2025) Katrin Renz (Autonomous Vision Group, University of Tübingen)
13:00	Lunch

TUESDAY, 30 September 2025

14:00	Current Developments in Science Communication: From Instruments and Formats to Values-Based Communication and Its Role in Society, Politics, and Democracy Julia Wandt (Keynote) (JWD, Berlin)
15:00	Science Communication on Different Career Levels Julia Wandt, Carsten Eickhoff, Nicole Ludwig, Markus Gottschling, Auguste Schulz (JWD, Berlin; Cluster of Excellence "Machine Learning", Tübingen AI Center, University of Tübingen; RHET AI Center, Tübingen; KI macht Schule)
16:00	Poster Session - Cluster Projects, AIMS Fellows and Research Groups - Coffee
19:00	Dinner

WEDNESDAY, 1 October 2025

09:00	Advances in Self-Supervised Multimodal Learning Hildegard Kühne (Tübingen AI Center, University of Tübingen)
9:45	Informative Explanations Only Exist for Simple Functions Ulrike von Luxburg (Cluster of Excellence "Machine Learning", University of Tübingen)
10:30	Coffee Break
11:00	Lost in Latent Land: Prediction, Understanding and Data Assimilation through Latent Spaces for Weather and Climate Pierre Gentine (Keynote) (Department of Earth and Environmental Engineering, Columbia University, USA)
12:00	Tabular Foundation Models Frank Hutter (Tübingen AI Center, University of Tübingen)
12:45	Closing Remarks Ulrike von Luxburg, Philipp Berens, Jakob Macke (Speakers of the Cluster of Excellence "Machine Learning", University of Tübingen)
13:00	Lunch