



Machine Learning in Science

8th Annual Conference 2026

VENUE – Neckawa (Wöhrdstraße 25, 72072 Tübingen)

Poster Session

MONDAY, July 13, 2026 (4:00 to ~6:30 pm)

	AIMS – Tübingen Fellowship Program Data Science & AI	
1.	Ndim Handson Nsani, Steffen Borrmann, Mario Recker	Mapping the Plasmodium Malariae prevalence in Africa: a Bayesian spatial modelling framework
2.	Oliver Kohlbacher, Dave Tabb, Dzodzoenyeny Adjowa Senanou	Machine Learning-Based Detection of Inconsistent DIA Experiments Using DIAuditor Quality Metrics
3.	Benedict Ejelonu, Reinhard Drews, Leah Sophie Muhle, Johannes Noll	Simulation Based Inference of Fern Density from Radar Measurements
4.	Vongai Mitchell Makuwaza, Mara Seyfert, Kristof Meding	When EU courts ask for explanations: What should you do?
5.	Arlette Musanabera, Matthias Ritter	Improving Short-term Forecasting of Global Daily Exchange Rates Using Lightweight Deep-learning Models
	Cluster Research Groups	
6.	Henri Pfleiderer, Michael Knaus	Causal Graphs for Conditional Parallel Trends
7.	Polina Tsvilodub, Jan-Felix Klumpp, Amir Mohammadpour, Jennifer Hu, Michael Franke	On Emergent Social World Models -- Evidence for Functional Integration of Theory of Mind and Pragmatic Reasoning in Language Models

8.	Leah Sophie Muhle, Guy Moss, Rebecca Schlegel, Jakob Macke, Reinhard Drews	Bayesian inference of radar attenuation rates and englacial temperatures
9.	Jonas Beck, Michael Deistler, Dora Viktoria Molnar, Jakob H. Macke, Philipp Berens	Learning Hybrid Biophysical Neuron Models\\ with Neural ODEs
10.	Julius Gervelmeyer, Sarah Müller, Lisa Koch, Simon J. Clark, Philipp Berens	Interpretable multi-task deep survival analysis for eye disease prognosis
11.	Moritz Schneider, Tabea Eberhardt, Cihan Gani, Paul Fischer, Christian Baumgartner, Daniela Thorwarth	Towards reliable AI-based radiotherapy dose modeling: uncertainty estimation using Monte-Carlo dropout, mean variance estimation and deep ensemble
12.	Dominik Langner, Cihan Gani, Simon Böke, Maximilian Niyazi, Carsten Eickhoff, Thomas Küstner, Daniela Thorwarth	Uncertainty-aware auto-segmentation to enable adaptive radiotherapy planning of liver metastases
13.	Hadi Shokati, Kay Seufferheld, Peter Fiener, Thomas Scholten	Forecasting Future Rainfall Erosivity Under Climate Change Using ConvLSTM
14.	Ndiye M. Kebonye, Hadi Shokati, Thomas Scholten	A numeric global soil classification framework based on KSeOM-ANN and hierarchical clustering
15.	Dmitry Lapkin, Ainur Abukaev, Constantin Völter, Mikhail Romodin, Nico Lerch, Ekaterina Kneschaurek, Oleg Gorobtsov, Ivan Zaluzhnyy, Vladimir Starostin, Alexander Hinderhofer, Frank Schreiber	Machine Learning for Grazing-Incidence Diffraction (GID): from Raw Data to Crystalline Structure
16.	Anne Rentzsch, Valentin Munteanu, Shreya Shah, Alexander Hinderhofer, Vladimir Starostin, Dmitry Lapkin, Frank Schreiber	Machine-learning-based on-the-fly analysis of neutron and X-ray reflectometry
17.	Mario Boneberg, Simon Kochsiek, Simon Waidelich, Igor Lesanovsky	Dissipative Quantum Neural Networks: A Physical Route to Quantum Machine Learning
18.	Stefan Wahl, Raphaela Schenk, Ali Farnoud, Jakob H. Macke, Daniel Gedon	ModelSMC: A Probabilistic Framework for LLM-Based Model Discovery
19.	Stefanidi, Z., Ulmer, L., Kim, B., Omolayo, I., McGill, M., Lappalainen, J. K., Klapoetke, N., Kurmangaliyev, Y. Z., Nern, A., Turaga, S. C., Macke, J. H.	Connectome, transcriptome and task constrained models of the entire fly optic lobe

20.	Philipp Langsteiner, Jan-Niklas Dihlmann, Hendrik Lensch	MatSpray: Fusing 2D Material World Knowledge on 3D Geometry
21.	Jan Schneider, Mridul Mahajan, Le Chen, Simon Guist, Bernhard Schölkopf, Ingmar Posner, Dieter Buehler	Sim-to-Real Transfer for Muscle-Actuated Robots via Generalized Actuator Networks
22.	Karolin Frohnapfel, Mara Seyfert, Sebastian Bordt, Ulrike von Luxburg, Kristof Meding	Using predictive multiplicity to measure individual performance within the AI Act
23.	Dominik Seip, Matthias Hein	Preference Redirection via Attention Concentration: An Attack on Computer Use Agents
24.	Mark Hellsten, Anna Gumpert	What is an AI worker? Evidence from matched vacancy-hires
25.	Lorena Saiz, Stefania Scrofani, <i>(group of Anna Gumpert)</i>	Intangible Investment in the Euro Area in Times of Uncertainty
26.	Turan Orujlu, Jordan Matelsky, Martin V. Butz, Charley M. Wu, Konrad P. Kording	Partially Observed Structural Causal Models
27.	Jules Kreuer, Christopher Kolberg, Jonas Huurdeman, Sofiane Ouaari, Katharina Eggersperger, Nico Pfeifer	TabPFN-Wide: Continued Pre-Training for Extreme Feature Counts
28.	Miguel Gomez-Hernandez <i>Cluster Norms and Practices Lab</i>	People's anticipations of Machine Learning and other emerging technologies: a futures anthropology approach
29.	Madhavi Sen <i>Research Data Stewart @ ML Cloud</i>	FAIR Data Management Practices in the Machine Learning Cluster of Excellence
30.	ML Cloud Team <i>Simon Kreuzer, technical head</i>	Bringing LLMs In-House: building a reliable LLM API service within ML Cloud