Machine Learning in Science

Conference on 9-10 July 2024 in Tübingen

VENUE – Freistil (Wöhrdstraße 25, 72072 Tübingen)

TUESDAY, 9 July 2024

Time	Session
09:00	**Opening Remarks** Ulrike von Luxburg, Philipp Berens (Speakers of the Cluster of Excellence "Machine Learning", University of Tübingen)
09:15	**Using Computational Models to Understand Neural Mechanisms Underlying Mental Disorders** Tobias Hauser (University Hospital, Computational Psychiatry, University of Tübingen)
10:00	**Machine Learning in Clinical Brain Research** Kerstin Ritter (Hertie Institute for AI in Brain Health, University of Tübingen)
10:45	**Coffee Break**
11:15	**Machine Learning Applications in Marketing Science** Aseem Behl (School of Business and Economics, University of Tübingen)
11:45	**Lifelong Learning and Language Models** Çağatay Yildiz (Cluster of Excellence "Machine Learning", University of Tübingen)
12:15	**Machine Learning in Clinical Workflows of Medical Imaging** Thomas Küstner (University Hospital, Medical Image and Data Analysis, University of Tübingen)
13:00	**Lunch**
14:00	**Mechanistic Models of Neural Computations** Jakob Macke (Cluster of Excellence "Machine Learning", University of Tübingen)
14:45	**AI, Law and Society - in Search of Blind Spots of AI Regulation** Alina Wernick (Cluster of Excellence "Machine Learning", University of Tübingen)
15:30	**Poster Session - Cluster Projects, AIMS Fellows and Research Groups - Coffee**
19:00	**Dinner**

WEDNESDAY, 10 July 2024

09:00	**The Emerging Science of Benchmarks** Moritz Hardt (Max Planck Institute for Intelligent Systems, Tübingen)
09:45	**Automated Machine Learning for Science** Katharina Eggensperger (Cluster of Excellence "Machine Learning", University of Tübingen)
10:15	**Ethics and Evidence** Markus Ahlers (Cluster of Excellence "Machine Learning", University of Tübingen)
10:45	**Coffee Break**
11:15	**Strengthening Graph Neural Networks, with Applications to Mass Spectrometry** Stefanie Jegelka (Keynote) (Department of Computer Science, Technical University of Munich)
12:15	**Quantifying Differences Between Probabilistic Causal Models** Stephan Eckstein (Department of Mathematics, University of Tübingen)
13:00	**Closing Remarks** Ulrike von Luxburg, Philipp Berens (Speakers of the Cluster of Excellence "Machine Learning", University of Tübingen)
13:15	**Lunch**
14:15-15:30	**General Assembly**

Registration here: