

EAI meets IQCB: Bridging Disciplines Workshop 2023

Time Schedule

	WEDNESDAY 6/12/23	THURSDAY 7/12/23	FRIDAY 8/12/23
8:55 - 9:15 AM	Welcoming Words		
9:15 - 10:10 AM	Moritz Helmsteadter	Danijela Marcović	Bastian Rieck
10:10 - 10:55 AM	Contributed Talks	Contributed Talks	Contributed Talks
10:55 - 11:45 AM	Guided Discussion Rounds with Snacks		
11:45 AM - 12:40 PM	Hanna Kokko	IQCB & EAI Project Presentations	Juan-Pablo Ortega
12:40 - 2:00 PM	Lunch		
2:05 - 3:00 PM	Contributed Talks	Lyudmila Grigoryeva	Contributed Talks
3:00 - 3:55 PM	Marco Coisson	Contributed Talk	Peter Tino
4:00 - 4:20 PM	Coffee Break	Poster-Session with Snacks	EAI-Center Presentation and Closing Words
4:20 - 5:00 PM	Contributed Talks		Closing Gathering

Wednesday (06.12.2023)

Time	Program
08:55 - 9:15 am.	Welcoming Words by Prof. Dr. Susanne Gerber + A Few Words from the Carl Zeiss Stiftung by Lukas Findeisen
9:15 - 10:10 am.	Keynote-Talk by Prof. Dr. Moritz Helmstedter
10:10 - 10:30 am.	Dynamic, data-driven computational model of GluA2 subunit of AMPA receptor to study heterosynaptic plasticity by Surbhit Wagle
10:35 - 10:55 am.	RBFOX2 regulates neuronal differentiation and migration via time-specific alternative splicing by Stephan Weißbach
10:55 - 11:45 am.	Guided Discussion Rounds with Snacks: Small Group Discussions of AI-related questions
11:45 - 12:40 pm.	Keynote-Talk by Prof. Dr. Hanna Kokko
12:40 - 02:00 pm.	Lunch Snack: Lye pastry with different Dips and crudites
02:05 - 02:25 pm.	Deep Generative Models of Evolution: Exploration of SNP-Level Population Adaptation by Genomic Linkage Incorporation by Julia Siekiera
02:30 - 02:50 pm.	MetaTransformer: Deep Metagenomic Sequencing Read Classification using Self-Attention Models by Alexander Wichmann
03:00 - 03:55 pm.	Keynote-Talk by Dr. Marco Coisson
03:55 - 04:15 pm.	Break with Coffee and Cake
04:20 - 04:40 pm.	Interdisciplinary Insights into Rapid Adaptation Patterns in Chironomus Riparius through Advanced Bioinformatics by Cosima Caliendo
04:45 – 05:05 pm.	Nano-Ribolyzer: A Tool Unraveling Ribosomal Biogenesis Intermediates through Long-Read Nanopore Sequencing by Tamer Butto
05:05 – 05:10 pm.	Some Organizational Information

Thursday (07.12.2023)

Time	Program
9:15 - 10:10 am.	Keynote-Talk by <i>Dr. Danijela Marcović</i>
10:10 - 10:30 am.	Concepts for Spintronic-based Non-Conventional Computing by <i>Thomas Winkler</i>
10:35 - 10:55 am.	Local Spatial Metrics for (Skyrmion) Reservoir Computing by <i>Robin Msiska</i>
10:55 - 11:45 am.	Guided Discussion Rounds with Snacks: Second round of small Group Discussions of new AI-related questions
11:45 - 12:00 pm.	IQCB Presentation by <i>Prof. Dr. Peter Baumann</i>
12:00 - 12:20 pm.	From Circadian Profiles to Personalized Counsel: Machine Learning and Modelling for Medicine by <i>Dr. Janina Hesse</i>
12:25 - 12:45 pm.	EAI-Micro-Project by <i>Dr. Lukas Stelzl</i>
12:40 - 02:00 pm.	Lunch Snack: A variety of finger food (e.g. small Quiche, filled Champignons , Potato-Tarts, Filled Puff Pastry)
02:05 - 03:00 pm.	Keynote-Talk by <i>Prof. Dr. Lyudmila Grigoryeva</i>
03:00 - 03:20 pm.	Beyond Invasive Monitoring: A Machine Learning Framework for Video-Driven Seizure Forecasting by <i>Dr. Pietro Verzelli</i>
03:20 - 05:00 pm.	Poster-Session with Cake and Coffee

Friday (08.12.2023)

Time	Program
9:15 - 10:10 am.	Keynote-Talk <i>by Dr. Bastian Rieck</i>
10:10 - 10:30 am.	Kernel Methods on Manifolds <i>by Nathaël Da Costa</i>
10:35 - 10:55 am.	Research in the Age of Foundation Models <i>by Jan Disselhoff</i>
11:00 - 11:20 am.	Generative Deep Neural Network for Topological Defects in two- dimensional Spin Systems <i>by Kyra Klos</i>
11:20 - 11:45 am.	Guided Discussion Rounds with Snacks: Summarization of the small Group Discussions of new AI-related questions
11:45 - 12:40 pm.	Keynote-Talk <i>by Prof. Dr. Juan-Pablo Ortega</i>
12:40 - 02:00 pm.	Lunch Snack: Different Types of Soup with Bread
02:05 - 02:25 pm.	Spontaneous Emergence of Robustness to Light Variation in CNNs with a Precortically Inspired Module <i>by Janko Petkovic</i>
02:30 - 02:50 pm.	Movies and 3D CNNs: Advanced Diffuse Supernova Neutrino Background Discrimination <i>by David Maksimović</i>
03:00 - 03:55 pm.	Keynote-Talk <i>by Prof. Dr. Peter Tino</i>
04:00 - 04:15 pm.	EAI – Center Presentation and Closing Words <i>by Prof. Dr. Michael Wand</i>
04:15 - 04:30 pm.	Gathering with Coffee and Cake