

# PROGRAM

## Brains and Bodies in Social Interaction, Learning and Wellbeing

Tuesday 11.6.		
9.00 – 9.10	Tiina Parviainen	Opening words
9.10 – 10.00	Wolfgang Tschacher	"The embodiment of social interaction: from spatial behavior to synchrony"
10.00 – 10.30		Coffee break
Interpersonal synchrony in clinical context <i>Chair: Virpi-Liisa Kykyri</i>		
10.30 – 10.55	Iiro Jääskeläinen	"Inter-subject synchronization of brain activity during movie viewing in autism spectrum and mental health disorders"
10.55 – 11.15	Anu Tourunen	"Interplay of couple's physiological synchrony and alliance events in couple therapy"
11.15 – 11.35	Petra Nyman-Salonen	"The ecological (or clinical) validity of our movement synchrony measures"
11.35 – 12.00	Virpi-Liisa Kykyri	"Problems (and possibilities) in integrating analyses of social interaction with synchronies in short episodes"

12.00 – 13.30		Lunch
Social interaction across species <i>Chair: Miiamaaria Kujala</i>		
13.30 – 13.55	Miiamaaria Kujala	"Interaction of humans and our best friends"
13.55 – 14.30	Sonja Koski	"Sharing and connecting in human-horse relationships"
14.30 – 16.00		Coffee & posters
16.00 – 17.00	Takefumi Kikusui	"Human-dog interaction and mutuality"
17.30 – 18.30		Lab demonstrations
19.00 →		Conference dinner
Wednesday 12.6.		
9.00 – 10.00	Hyeonjeong Jeong	"The role of social interaction in language acquisition: insights from fMRI studies"
10.00 – 10.30		Coffee break
Collaborative learning <i>Chair: Paavo H.T. Leppänen</i>		
10.30 – 10.55	Faisal Channa	"Examining in-service teachers' sequential patterns of knowledge construction and regulation during collaborative learning partnership with Generative AI"
10.55 – 11.15	Paavo H.T. Leppänen*	"Associations between cognitive skills and collaborative problem solving"
11.15 – 11.35	Héctor Pijeira-Díaz	"Sympathetic arousal commonalities and arousal contagion during collaborative learning: How attuned are group members?"

11.35 – 12.00	Piia Astikainen & Xueqiao Li	"Social foreign language learning: behavioral and electrophysiological studies"
12.00 – 13.15		Lunch
Body and brain in synchrony <i>Chair: Miriam Nokia</i>		
13.15 – 13.40	Sanna Lensu	"Parasympathetic highway between the body and brain – vagus nerve"
13.40 – 14.00	Miriam Nokia	"Optimizing learning with the help of bodily signals"
14.00 – 14.30	Tiina Parviainen	"Attending visceral information: neural correlates, individual differences and significance for interaction"
14.30 – 16.00		Coffee & posters
16.00 – 18.00		Lab demonstrations

Thursday 13.6.		
8.30 – 9.30	Guillaume Dumas	"Bridging the social divide using multi-brain neuroscience: from social physiology to social neuro-AI"
9.30 – 10.00		Coffee break
Analysis of coupling between signals <i>Chair: Jan Kujala</i>		
10.00 – 11.00	Jan Kujala	"Synchrony and causality between neural signals"
11.00 – 12.00	Satu Palva	"Connectomics view on brain dynamics"
12.00 – 13.00		Lunch
13.00 – 14.00		Business presentations
Approaches to psychophysiological measurements <i>Chair: Jan Wikgren</i>		

14.00 – 14.30	Santtu Seipäjärvi & Jan Wikgren	"Inducing and measuring stress in healthy and 'at-risk' populations"
14.30 – 15.00	Zhaodong Sun	"Facial video-based non-contact physiological signal measurement and applications"
15.00 – 16.00		Coffee & posters
Friday 14.6.		
Advanced analysis of respiratory-brain coupling <i>Chair: Tiina Parviainen</i>		
9.00 – 10.00	Daniel Kluger	"Advanced analysis of respiratory-brain coupling"
10.00 – 11.00	Ivan Zubarev	"Computational approaches for decoding brain-body interactions"
11.00 – 12.00		Lunch
Approaches to measuring, analyzing and quantifying interpersonal synchrony <i>Chair: Jan Kujala</i>		
12.00 – 13.00	Lauri Parkkonen	"Possibilities, caveats and methods for hyperscanning"
13.00 – 14.00	Wolfgang Tschacher	"On the many divergent methods to compute synchrony"
14.00 – 14.15	Tiina Parviainen	Closing words

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