Joint Action Meeting X

Wednesday 9th - Saturday 12th July 2025

Department of Life Sciences and Systems Biology - Aula Magna

Via Accademia Albertina, 13 - Turin (Italy)

Scientific Program

Wednesday 9th July

8.30 – 9.10	Onsite Registration	
9.15 – 9.30	Welcome Speech	
9.30 – 10.30	Talk Session I *Agency*	1. **Bert Timmermans** - Social agency: Social interaction changes the time course of explicit, not implicit sense of agency 2. **Tommaso Berni** - Sense of agency in joint actions: an fMRI study 3. **Olivia Seubert** - More than the sum of its parts? Assessing individual and joint sense of agency in real-world joint actions 4. **Ouriel Grynszpan** - Partner's action predictability strengthens the sense of agency in joint action
10.30 – 11.30	Poster Session I Morning + Coffee Break	
11.30 – 12.30	Talk Session II *Cooperation and Decision Making I*	1. **Laura Schmitz** - Readout of confidence from kinematics shapes collective decision-making 2. **Liron Amihai** - Facial mimicry during social interaction predicts preferences 3. **Martina Fanghella** - How sensorimotor information impacts strategic coordination 4. **Lucia De Francesco** - Together is better than alone: the benefits of cooperation across time
12.30 – 13.30	Lunch	
13.30 – 14.30	Talk Session III *Development / Aging*	1. **Yulia Golland** - Physiological mechanisms underlying playful interactions 2. **Natalia Morozova** - Developmental trajectories of joint action coordination in Vietnamese and Swiss children 3. **Timothy McGowan** - The Temporal Architecture of Narrative in Adult-Infant Interaction 4. **Jonathan Delafield-Butt** - Motor Origins of Narrative: Sharing time in joint action sequences
14.30 – 15.30	Talk Session IV *Coordination*	1. **Olivia Soesanto** - Interpersonal coordination in the wild: How social closeness influences coordination and its benefits 2. **Qianliang Li** - Non-Friends Exhibit Increased Effort Relative to Friends in Group Coordination 3. **Alexandra Paxton** - Interacting Constraints: Context and Modality Influence Interpersonal Movement Coordination during Conversation 4. **Cassandra Crone** - From Bias to Coordination: How Virtual Reality Enhances Joint Action Between Cisgender and Transgender Individuals
15.30 – 16.30	Poster Session I Afternoon + Coffee Break	
16.30 – 17.30	Talk Session V *Improvisation and Performative Arts*	1. **Trinidad Speranza** - The Perception of Joint Improvisation: Movement Dynamics and Social Cognition in Dance 2. **Thomas Wolf** - Do the Musical Features of Work Songs Reflect Their Role in Interpersonal Coordination? 3. **Lior Noy** - The interplay of sync and de-sync in creative interactions 4. **Guido Orgs** - Delta-band interbrain synchrony tracks shared audience engagement with live dance performances.
18.00 – 20.00	Welcome Drink @Department of Psychology, Via Verdi, 10	

Thursday 10th July

9.30 – 10.30	Talk Session VI *Inter-brain synchronization*	1. **Manuel Varlet** - Neural information alignment during joint actions 2. **Dwaynica A. Greaves** - Measuring brain-brain coordination and interpersonal synchrony during a live theatre rehearsal and performance 3. **Kohei Miyata** - Midcingulate cortex orchestrates inter-brain networks of interpersonal motor synchrony 4. **Simone Shamay-Tsoory** - Inter-Brain Plasticity Underlies the Development of Social Connectedness
10.30 – 11.30	Poster Session II Morning + Coffee Break	
11.30 – 12.30	Talk Session VII *Cooperation and Decision Making II*	1. **Arianna Curioni** - Is it better together? Decision-making under risk and uncertainty in joint actions 2. **John Sutton** - Collaborative wayfinding: a critical review and research agenda 3. **John Michael** - Facing Implicit Expectations 4. **Luke McEllin** - Does the reward structure of an interaction influence the deployment of sensorimotor communication?
12.30 – 13.30	Lunch	
13.30 – 14.30	Talk Session VIII *Language*	1. **Chiara Gambi** - Engineering Conversation: Control requirements of language production in monologue and dialogue. 2. **Tifenn Fauviaux** - Turn-Taking Dynamics: Investigating Fluency in Free Conversations with Individuals Diagnosed with Schizophrenia 3. **Maude Denis** - Studying Speech Alignment and Rhythmic Synchronization in Autism Spectrum Disorder: Results of a Battery of Tests 4. **Inbal Ravreby** - What is Common When "We Speak the Same Language"
14:30 – 15:30	Talk Session IX *Synchrony I*	1. **Atesh Koul** - Physiological signals synchronize interpersonally through mere visual contact 2. **Stefano Uccelli** - What Weber's law can tell us about emergent and planned interpersonal synchronization 3. **Giacomo Novembre** - The geometry of interpersonal synchrony in human dance 4. **Ivana Konvalinka** - Heart rate synchrony among performers and audience members at a massive choral festival
15.30 – 16.30	Poster Session II Afternoon + Coffee Break	
16.30 – 17:15	Talk Session X *Representing Others I*	1. **Giulia Tomasetig** - When movements speak: sensorimotor communication during cooperative and competitive interactions 2. **Jordi Manuello** - ACT2: a kinematics framework to explore dyadic motor similarity 3. **Emily Cross** - Exploring Behavioural and Neural Mechanisms of Movement Synchrony from Performers' and Observers' Perspectives
17:15 – 18:30	Talk Session XI *Human-Robot/AI-interaction and Virtual Reality I*	1. **Francesca Ciardo** - The role of sensorimotor synchronization in human-robot interaction. 2. **Basil Wahn** - Play fair: Humans prefer an equal division of labor in a joint multiple object tracking task 3. **Jairo Perez-Osorio** - Collaboration Promotes Risk-Taking Behavior in Human-Robot Teams 4. **Eva Wiese** - Offloading in human-agent teams depends on the agent's perceived social nature 5. **Michael Richardson** - AI and Everyday Coordination: Multimodal Approaches to Understanding Joint Action in Dynamic Social Interactions
20:00	JAM X dinner @Ristorante Giolitti, Via Carlo Alberto, 29	

Friday 11th July

9.30 – 10.30	Talk Session XII *Neural Mechanisms*	1. **Félix Bigand** - EEG of the dancing brain: Decoding sensory, motor and social processes during dyadic dance 2. **Mattia Rosso** - Oscillatory dynamics in joint action: functionally specific roles of neural entrainment and beta modulation in self-other integration 3. **Margherita A. Musco** - Processing Human and Non-Human Errors During Joint Action: An fMRI Study 4. **Masaki O. Abe** - Modulation of online cooperation during joint force production by transcranial alternating current stimulation
10.30 – 11.30	Poster Session III Morning + Coffee Break	
11.30 – 12.30	Talk Session XIII *Neurodevelopmental and Neurocognitive disorders*	1. **Roni Poyas-Naharan** - Motor and Socio-Cognitive Mechanisms Explaining Peers' Synchronization of Joint Action Across Development in Autistic and Non-Autistic Children 2. **Mathilde Parisi** - Emotional Mimicry and Smiling Behaviors in Schizophrenia: An Ecological Approach 3. **Jan Stupacher** - Unlocking the pleasurable urge to move to music in people with Parkinson's disease through social connection 4. **Bahar Tuncgenc** - Facial synchrony during conversations is context-specific and signals friendliness to both autistic and non-autistic observers
12.30 – 13.30	Lunch	
13.30 – 14.30	Talk Session XIV *Prediction and Planning*	1. **Kassandra Friebe** - The Influence of Task Demands on Joint Action Planning 2. **Bence Neszmélyi** - The social aspect of error correction: How corrections by a co-actor shape post-error adjustments 3. **Lucia M. Sacheli** - Lead the dance: the neural correlates of interpersonal coordination in asymmetric joint actions 4. **Nicola Bruno** - The enhancement of shared experience: disentangling the contributions of joint perception and coordinated action
14:30 – 15:30	Talk Session XV *Synchrony II*	1. **Antonia Hamilton** - Wearable sensors show how the dynamics of interpersonal synchrony can predict who likes who in groups of young adults 2. **Anna Zamm** - Beyond dyadic joint action – How do larger groups synchronize actions? 3. **Alessandro Mazza** - On the same wave: physiological synchronization in hugging partners 4. **Hanlu He** - Effect of asymmetric noise on interpersonal communication dynamics
15.30 – 16.30	Poster Session III Afternoon + Coffee Break	
16.30 – 17:30	Talk Session XVI *Representing Others II*	1. **Dilan Çabuk Çolak** - Survival processing leads to social information hoarding 2. **Anne Böckler** - Context-sensitivity and stability in gaze processing and behavior 3. **Alon Tomashin** - A method for determining leader-follower relationship in groups – Lagged Multidimensional Recurrence Quantification Analysis 4. **Tim Welsh** - "Imagine me and you, and you and me": A partner's assumed motor abilities influence our own imagined movements in an imaginary joint action task.
17:30 – 18:30	Talk Session XVII *Joint action in ecological context*	1. **Francesca Capozzi** - The effects of direct gaze on social cognition 2. **Cathal O'Madagain & Ghizlane Goubraim** - Joint Knowledge in Small Scale Societies 3. **Teresa Raimondi** - Rhythmic interaction in gibbon songs

Saturday 12th July

9.30 – 10.30	Talk Session XVIII *Music*	1. **Canonne Clément** - Assessing the respective roles of temporal and content-based coordination in perceived musical togetherness 2. **Caroline Palmer** - Testing causal relations between physiological and behavioral synchrony in musical dyads 3. **Bavo Van Kerrebroeck** - Group Dynamics of Polyrhythmic Coordination in Quartets 4. **Zijun Zhou** - Cognitive and Neural Mechanisms Underlying People's Sense of Joint Agency During Musical Joint Action
10.30 – 11.00	Coffee Break	
11.00 – 11.45	Talk Session XIX *Perspective taking* *Mentalizing*	1. **James W. A. Strachan** - GPT-4o reads the mind in the eyes 2. **Cecilia De Vicariis** - Interpersonal coordination strategies in sensorimotor games between humans and simulated partners 3. **Patric Bach** - Perspective taking as altercentric perception: new findings
11:45 – 13:00	Talk Session XX *Human-Robot/AI-interaction and Virtual Reality II*	1. **Mateusz Wozniak** - Between self and other: Neural correlates of controlling a semi-autonomous robot 2. **Bruno Berberian** - Intention Based Explanation to improve Human AI collaboration 3. **Manisha Biswas** - Marching to the Beat of Identity: Self-Other Blurring and Conformity in Natural and Minimal Groups in Virtual Reality 4. **Kenta Hashiura** - From Imitation to Inference: Understanding Motor Skill Transfer in Virtual Co-Embodiment 5. **Orit Nafcha** - Exploring the Impact of Reciprocal Relationships with Robots on Collaboration and Co-representation
13.00 – 13.15	Final remarks	

Poster Session I (Morning and Afternoon) - 9th July

Ayeh Alhasan	Revisiting Intention Prediction: Free Responses in Immersive 360° Contexts Reveal How Affordances Shape Observers' Judgments.
Maho Asahina	How Are Rhythms and Songs Used in Daycare?: Observational Study in Infant Class in Japanese Daycare
Shaheed Azaad	Suspicion Checks for online Joint Action research
Angelo Di Porzio	A data-driven approach to learn and model how people spontaneously move
Emma Berthault	Rhythmic interactions to prime conversational dynamics
Argaman Bell Meir	Social Context Shapes Facial Synchronization - A Virtual Reality Study
Tifenn Fauviaux	Speech and Gesture Dynamics in Free Conversation: Unimodal and Multimodal Synchronization
Kira Franke	Does vicarious feedback influence stimulus-response binding by observation?
Amit Freiman	Neural Synchrony as a Mechanism for Shared Reality
Mostafaoui Ghilès	Sensorimotor control of rhythmic adaptations: a computational study on a human simulated arm
Marta Guarischi	The angles between us: quantifying relational, directional, joint and separate attention
Friederike C. Hechler	The Role of Intentional Stance and Agent Appearance on Gaze Use during Joint Attention
Norman Hüttner	Joint Action in Sport: Which Personality Traits Predict Dyadic Performance in Beach Volleyball Tournaments
Lena Kopnarski	How Young Adults Compensate for Age-Related Differences in Object Handover Tasks
Catherine Lin	Effects of group size and meter on tempo drift in larger musical ensembles

Juliette Lozano-Goupil	Interpersonal head synchrony in youth at clinical high-risk for psychosis during zoom-based clinical interviews.
Mateo Magaz	Studying Speech Alignment and Rhythmic Synchronization in Individuals with Schizophrenia: Preliminary Results of a Battery of Tests
Marco Mattei	Sunk Effort Costs in Joint Action: The Role of Personal and Partner Effort Investments
Chiara Mazzocconi	Laughter "as" and "in" joint action across conversational contexts in neurotypical and autistic adults
Sophie Milward	Beyond the dyad: Investigating social cognition in groups
Yael Molcho Fisher	Shared Experiences, Shared Memories: Inter-Brain Coupling in Collaborative Memory Processes
Kanae Ogasawara	The mechanisms of team collapse under high psychological pressure
Yuechen Robin Ren	The crucial role of co-watcher responses in audience engagement
Ileana Rossetti	The ability to perform joint action in schizophrenia.
Dhwani P. Sadaphal	The effect of temporal complexity and sensory modality on self-other representations in dyadic rhythm production
Chifumi Sakata	Co-representation in Joint Visual Search
Giulia Scorza Azzarà	The Role of Vision in Forming Joint Body Schema during Human-Robot Collaboration
Giulia Siri	Neural correlates of mechanisms involved in observation of performance of others
Antonio Spallone	Real-time phase estimation of multidimensional quasiperiodic signals
Hümay Ünal	The Role of Social Closeness in the Joint Memory Effect: Comparison Between Close Friends and Strangers

Victor Vattier	Social Cohesion and Joint Action in Face-to-Face Interactions with Individuals with Schizophrenia
Yasemin Yeşilyaprak	Exploring Determinants of Joint and Individual Agency in Joint Actions
Yibai Zhu	Does Communication Improve Joint Action Coordination? The effect of time pressure and task difficulty
Yohay Zvi	Religious-Dependent Neural Synchronization

Poster Session II (Morning and Afternoon) - 10th July

Ilkay Ari	Causing a robot to display happy but not sad facial expression leads to sensory attenuation: evidence from EEG
Alessandro Arnaudo	A Bridge Between Upper and Lower Limb Variability: New Insights into Motor Behavior and Joint-Actions
Dimitrios Askitis	Infant-caregiver synchrony and development of self-awareness in the second year of life
Marwen Belkaid	Subjective valuation from individual decision-making to joint action
Rachel M. Brown	Memory for what we say to ourselves versus to a partner in a shared-memory task
Cassandra Crone	Using a Competitive Multi-Player Video Game to Explore Team's Adaptive Coordination and Strategic Performance
Luigi F. Cuturi	"It takes two" to improve executive functions and Theory of Mind
Aliaksandr Dabranau	People with more communities in personal social networks adapt less in a simple real-time interaction
Claudia De Bernardi	To synch or not to synch: neural correlates underlying tempo contagion in planned and emergent interpersonal synchronization
Fabiana Esposito	The effect of commitment on the sense of agency in joint action
Francesca Genovese	Collective goal and peripersonal space
Carl Emil Grum-Nymann	A novel paradigm for investigating agency and subgroup dynamics during group interaction
Yoshiki Hattori	Physiological dynamics in professional and amateur string quartets
Hanlu He	Heart rate synchrony is associated with interpersonal proximity and the sound environment in real-world settings

Angelica Kaufmann	Readiness potential as a marker of the sense of commitment in a joint action task
Kyveli Kompatsiari	Fewer Friends, more Sync: Spontaneous Interpersonal Coordination and Brain Dynamics in Social Networks
Felix J. Götz	Motor coordination induces social identity—A novel paradigm for the investigation of the group performance-identity link
Julien Laroche	The Hive Body - moving and feeling together in physical and digital spaces with human and artificial partners
Giorgia Mason	Midfrontal Theta activity as marker of altered interpersonal performance monitoring in Parkinson's Disease patients
Maximilian Marschner	Anticipated Imitation Between Groups
Kae Mukai	The influence of distance on human-avatar body synchronization in virtual reality
Patti Nijhuis	Neural self-other integration in improvised movement
Oriana Pansardi	Movement Vigor in Costly Punishment
Luke Ring	A Novel, Scalable Paradigm for Collaboration and Competition in Joint Action Research
Giulia Romano Cappi	The more the merrier: Inter-Brain Synchronization During Triadic Creative Idea Generation
Alexandra Paxton	MultiSOCIAL: An Open-Source Toolbox for Quantifying Multimodal Social Interaction.
Kathrine Schultz-Nielsen	Interpersonal Neurophysiological Synchrony as a Marker of Listening Engagement during Shared Attention
Aial Sobeh	The Emergence of Moral Alignment Within Human Groups is Facilitated by Interbrain Synchrony
Marcell Székely	How does the perception of a partner's effort influence partner choice?

Miles R. A. Tufft	Better Together: Reframing the Joint Simon Task for Cognitive Facilitation
Robrecht van der Wel	Measuring the Sense of Agency: The Usefulness of Temporal Binding and Explicit Rating Scales
Victor Vattier	Developing a Real-Time Assessment Tool for Disruptive Nonverbal Behaviors in Clinical Populations
Basil Wahn	Humans take the visuospatial perspective of robots and objects that imply social presence
Emilie Zhu	Learning rhythm with and without social context

Poster Session III (Morning and Afternoon) - 11th July

Sara F. Abalde	On the role of ancillary body movements in interpersonal synchronization during joint music making
Yasemin Abra	The influence of autism-like traits on the social dynamics of joint improvisation: insights from the Mirror Game
Louis Aldrich	Can I picture what you see?
Greta Bonino	Camouflaging Interpersonal Distance in High-Functioning Autism: Physiological and Behavioral Insights
Cédric Bouquet	Control processes involved in the regulation of automatic imitation
Francesca Capiotto	The Bonding Power of Touch: The physiological correlates of the social softness illusion
Shuting Chen	Interference in Imaginary Collaborations: A Joint Code-Switching Study
Merryn D. Constable	Social cuing: A systematic review.
Joel Currie	A Comparison of Visual Perspective Taking Towards Humans and Robots in Face-to-Face Interactions
Sara D'Amario	Differences in head motion in a professional piano duo before, after, and during concert performances
Alper Demircan	The Role of Intentions in Joint Memory: Task Co-representation and Selective Encoding
Elisabetta Ferrari	ACT2: Exploring kinematic profiles in autism
Mario Francis	Inter-brain plasticity: enhancing inter-brain synchrony with a dyadic neurofeedback
Amroté Getu	Adaptive Coordination: Identifying Objective Measures of Task-Sharing in Human-Agent Teams

Yasmina Giebeler	Are we compatible? Investigating Co-Representation of Virtual Robotic Partners in a Joint Simon Task.
Felix J. Götz	Follow Me - or Follow You? Response Conflicts Loom Larger when Triggered by a Human than a Computer Co-Actor
Stefano Grasso	Neural Predictors of Cooperative Behavior: dlPFC's Role in Joint Action Selection
Camilla Gregorini	Neural mechanisms underlying interpersonal coordination with a virtual partner are modulated by borderline personality traits
Kathrin Kostorz	Brain-to-brain training in the making: Progress towards a hyperfeedback system
Felix Kretschmer	sIOR from afar: Does social context information modulate social inhibition of return (sIOR) in an online task with central cues?
Camilla Maronati	The role of kinematic similarity in action perception: behavioral and EEG evidence from the Act2 project
Virginia Papagni	Neural Correlates of decision-making when acting alone or jointly in interacting macaques: A dual EEG study
Elena Pavliuchik	Idea exchange in joint search for remote semantic relations
Tudor Popescu	Using predictive dynamics as a window into the evolution of language and music
Alexandra Paxton	How Physical, Social, and Sociocultural Contexts Constrain Interpersonal Movement Coordination.
Lucia Rivas	Investigating the Impact of Metacommunication on Understanding of Computer-Mediated Narratives
Marcell Székely	Do people match their joint action partner's effort to meet expectations about the fair allocation of resources?
Samuel Tepper	A Demonstration of Joint-Improvisation and its use as a framework for collaboration

Georgina Török	Performance monitoring in social interactions: Post-error adjustments are influenced by motor costs of a co-actor's corrective movements
Laina K. Townsend	Navigating Social Gaze: Guided Naturalistic Face-to-Face Conversations in the General Population and Individuals with Autism and/or Social Anxiety
Jelle van der Werff	thebeat: A Python package for working with one or multiple temporal sequences
Joseph Ventress	Who yields, and why? A qualitative analysis of factors influencing pedestrian yielding behaviours.
Elisa Wiedemann	Interpersonal Coordination in Continuous and Discrete Tasks – A Study of People's Experience
Eva Wiese	Neurophysiological measures of resource allocation in human-AI teams
Mateusz Wozniak	We-information can facilitate performance in joint teleoperation over a humanoid robot