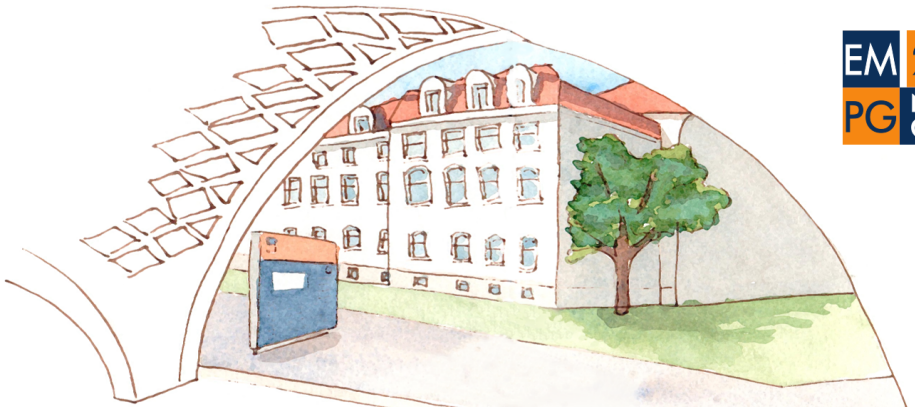
Program

7–9 Sept 2026



European Mathematical Psychology Group Meeting 2026

University of Innsbruck, Ágnes-Heller-Haus
Innrain 52a, A-6020 Innsbruck

Monday 7 September

09:00 – 09:30

Registration desk: Registration desk opens

Session

09:30 – 10:00

Opening session: Welcome to Innsbruck

Session

10:00 – 11:00

Keynote: Classification of brain states that predicts future performance in visual tasks based on co-integration analysis of EEG data

Session

10:00–11:00

Classification of brain states that predicts future performance in visual tasks based on co-integration analysis of EEG data

Speaker
Susanne Ditlevsen

11:00 – 11:30

Coffee break

Break

11:30 – 12:45

Talks: Knowledge Structures I

Session

11:30–11:55

A query procedure for constructing maximally informative yet minimally long tests for skill assessment

Speaker
Pasquale Anselmi

11:55–12:20

Large Language Models for the Theory-Driven Construction of Knowledge and Competence Structures

Speaker
Debora de Chiusole

12:20–12:45 **Characterizing and Breaking Gradedness in Polytomous Knowledge Structures**

Speaker
Andrea Spoto

12:45 – 14:00

Lunch break

Break

14:00

Talks: Psychometrics & Measurement and scaling

Session

14:00–14:25 **On the modeling of local dependence**

Speaker
Stefano Noventa

14:25–14:50

Optimal designs for Thurstonian IRT models based on metric paired comparisons

Speaker
Heinz Holling

14:50–15:15

Every response matters: Nested logit item response theory models for the development of smart item selection algorithms

Speaker
Ottavia M. Epifania

15:15

15:15

Coffee break

Break

15:45

15:45

Talks: Models and Decision Making

Session

15:45–16:10

Critically testing the drift diffusion model as an account for response times in risky decision making

Speaker
Sebastian Hellmann

16:10–16:35

Contextual Probability Modelling of Decision under Ambiguity: Conditioning Schemes and Information-Theoretic Properties

Speaker
Mario Angelelli

16:35–17:00

The Noisy Comparison Theory: A Context-Sensitive Model for Decision Making Under Risk

Speaker
Jörg Rieskamp

17:00

17:00

Social: Young EMPG

Session

17:00–18:30 **Touristic walk**

18:30–23:00 **Drinks and Snacks at Kater Noster**

23:00

Tuesday 8 September

09:00

Talks: Psychometrics and Measurement

Session

09:00–09:25 **Variational dynamic latent class analysis**

Speaker
Jan Luca Neduchal

09:25–09:50

Proper units for pro-environmental behavior: a review and feasibility study of private-sphere behaviors

Speaker
Irene Alfarone

09:50–10:15

Using a mathematical representation of brain processes to explain decision making: adapting Friston's free energy principle for travel behaviour modelling

Speaker
Jamal Amani Rad

10:15–10:40 **You may not be so powerless after all**

Speaker
Michel Regenwetter

10:40

10:40

Coffee break

Break

11:10

11:10

Talks: Methods

Session

11:10–11:35

Autocorrelated Sampling in Cognition: Implementing MCMC Models and Fitting Them Without Likelihoods

Speaker
Lucas Castillo

11:35–12:00

Novel Approaches for Testing Intertemporal Decision-Making Preferences of Individuals

Speaker
Sofia Wolfson

12:00–12:25 **Generalisation and confidence in decisions from experience**

Speaker
Rebecca West

12:25–12:50 **Reference-based imputation for clustered longitudinal data**

Speaker
Matthias Gondan

12:50

12:50 **Lunch break**
Break

14:00

14:00 **Talks: Models I**
Session

14:00–14:25 **Relative Distinctiveness, Interference, and the Revised Feature Model**

Speaker
James Yearsley

14:25–14:50 **A Mixture Processing Account of Heavy-tailed Recall Error**

Speaker
Amir Hosein Hadian Rasanan

14:50–15:15 **Stochastic dominance in canonical response time models**

Speaker
Lukas Legner

15:15–15:40 **Issues with the M-ratio as measure of metacognitive efficiency**

Speaker
Manuel Rausch

15:40

15:40 **Coffee break**
Break

17:00

15:40 **Poster: even numbers**
Session

15:40–16:40
Is it really EZ-ier? Comparing an implementation of the hierarchical EZ diffusion model with the hierarchical Seven-parameter Diffusion Model

Speaker
Anne Giacobello

15:40–16:40
Validated Multiverse Meta-Analysis: Expert-Constrained Specification Spaces and Post-Selection Inference

Speaker
Matteo Manente

15:40–16:40
Predicting Individual Distress in Exposure Therapy: An Explainable Machine Learning Approach

Speakers
Annika Trapple, Daniel Reiter

15:40–16:40
Lessons from and for metatheory: Can we tell rule- and similarity-based grammar learning apart?

Speaker
Moulshree Rana

15:40–16:40 **Meta-learning approaches for dynamic structural equation models**

Speaker
Jan Luca Neduchal

15:40–16:40
Analyzing Binary Judgments: Comparing Two-Step ANOVA and Generalized Linear Mixed Models from the Perspective of Signal Detection Theory

Speaker
Semih C. Aktepe

15:40–16:40
Modeling Expectations and Framing in Causal Judgment based on Contingency: A Bayesian Multinomial Processing Tree Approach

Speaker
Stefano Dalla Bona

15:40–16:40 **Developing tools to measure story-based reasoning**

Speaker
James Yearsley

15:40–16:40
Trial-aligned joint EEG-behaviour evidence accumulation modelling enables cross-modal prediction in time-pressured pedestrian road-crossing decisions

Speaker
Jamal Amani Rad

15:40–16:40
Specifying Meaningful Joint Hypotheses Across Studies: Bayesian Evidence Synthesis Revisited

Speaker
Laura Groot

17:30

17:00 **Social: Business meeting**
Session
17:30

19:30 **Social: Conference dinner**
Session
23:00

Wednesday 9 September

09:00

Talks: Models II

Session

09:00–09:25 **Accounting for Censored Data in Horse-Race Models of the Stop-Signal Paradigm**

Speaker
Lars Kulbe

09:25–09:50 **An algebraic solution to Marley's problem on four alternatives**

Speaker
Karim Kilani

09:50–10:15 **A new geometric model for Best–Worst choice**

Speaker
Keivan Mallahi Karai

10:15–10:40 **On race models for stop signal paradigms**

Speaker
Hans Colonius

10:40

10:40

Coffee break

Break

11:00

11:00

Keynote: Escape from Datapolis: Methodology, formal models, and the theory crisis in psychology

Session

11:00–12:00

Escape from Datapolis: Methodology, formal models, and the theory crisis in psychology

Speaker
Denny Borsboom

12:00

12:00

Lunch break

Break

13:00

13:00

Poster: odd numbers

Session

13:00–14:00

STRUCTURA: A Bayesian Network Framework for Information-Theoretic Scoring and Behavioral Anomaly Detection

Speaker
Matteo Orsoni

13:00–14:00

Extending RL–WM Dynamics Beyond Discrete Choice: Evidence from a Continuous RLWM Paradigm

Speaker
Hanieh Sayadi

13:00–14:00

Recovering Knowledge Structures from Incomplete Data with Inductive Item Tree Analysis

Speaker
Peter Steiner

13:00–14:00 **EZ-SDM: Closed-form estimation for spherical diffusion models in 3D**

Speaker
Jamal Amani Rad

13:00–14:00

Eye Riders Assessment (ER-A), a novel application to measure sustained attention using Hierarchical Drift Diffusion Model Approach

Speaker
Alice Riccardi

13:00–14:00

Are we getting interactions wrong? The role of link functions in psychological research

Speaker
Laura Sità

13:00–14:00

A Dynamical Systems Model of Emotion Regulation Ability Across Psychological Context Space

Speaker
Filip Melinscak

13:00–14:00

Kernel Density Estimation and the Overlapping Index $η$: A Sensitivity Analysis Across Bandwidth Selectors and Kernel Functions

Speaker
Giulia Calignano

14:00

14:00

Talks: Knowledge Structures II

Session

14:00–14:25

Knowledge Space Theory as a Method for Curriculum Learning in Machine Learning

Speaker
Milan Segedinac

14:25–14:50

Efficient Computation of Stability Rates in Adaptive Assessments Based on Knowledge Structure Theory

Speaker
Luca Stefanutti

14:50–15:15

Building precedence relations from data: A theoretical perspective on an empirical approach

Speaker

Jürgen Heller

15:15

15:15

Social: Closing session

Session

15:45