

2025 ACT-R Workshop Schedule

The 32nd Annual ACT-R Workshop will take place on Tuesday July 29, 2025, as part of the MathPsych/ICCM conference. The general theme is the long-term future of cognitive architectures and unified theories of cognition. The sessions will last 1hr15' and will be devoted to specific topics. Each session will start with a 20' presentation to introduce the topic, followed by brief statements from each panel member then an open discussion involving all workshop attendees.

Virtual attendance will be available on Zoom (ID: 98262734381, Passcode: 257190):

<https://cmu.zoom.us/j/98262734381?pwd=f1iPm8tzhu68pn881yZFKSVKEQEu0K.1&jst=2>

Recordings of the workshop will be made available afterwards. Times listed are Eastern Daylight Time. Contact cl@cmu.edu with comments and inquiries.

9:00 Session 1: Theory Validation – Chair: Mike Byrne

Topics	Formal theory evaluation methods, future architecture developments
Talk	Joseph Hought and Othalia Larue - Using systems factorial technology for global model analysis of ACT-R's core architectural assumptions
Panel	Alex Hough, Ion Juvina, Christian Lebiere, David Peebles, Rob Thomson

10:15 Break

10:30 Session 2: Alternative Theories – Chair: Drew Cranford

Topics	AI theories of cognition, criteria for evaluation of unified theories of cognition
Talk	Mark Orr – Centaur: a foundation model of human cognition
Panel	John Anderson, Kevin Gluck, Peter Pirolli, Frank Ritter, Andrea Stocco

11:45 Lunch

1:00 Session 3: Hybrid Theories – Chair: Frank Ritter

Topics	Neuro-symbolic architectures, integrated cognitive systems
Talk	Christian Lebiere - Integrating cognitive architectures and generative models
Panel	Chris Dancy, Mary Kelly, Catherine Sibert, Robert West

2:15 Break

2:30 Session 4: Future of ACT-R – Chair: Rob Thomson

Topics	Software implementations, model applications, community governance
Talk	Andrea Stocco – Toward an open-source ecosystem for ACT-R
Panel	Dan Bothell, Mike Byrne, Drew Cranford, Chris Myers, Nele Russwinkel, Dario Salvucci, Hedderik van Rijn

3:45 Break

4:00 Open Discussion