UNIVERSITÀ DI TRENTO

CIMeC Center for Mind/Brain Sciences

Reasoning And Decision group

What do we study at RAD?

People make dozens of **inferences** every day. Inferences, indeed, are crucial for learning, hypothesis evaluation, evidence search and assessment, forecasting and, of course, decision making. The advance of theoretical and empirical knowledge about these **higher-level cognitive processes** is extremely interesting *per se*, but it also has broad implications for intervention in many applied settings, such as **legal reasoning, medical decision making and environmental sustainability**. Our research agenda ranges from **experimental psychology** to **formal epistemology** and makes use of both original experimental procedures and theoretical modelling.

Our main research interests

- Inductive and probabilistic reasoning
- Decision making
- Forecasting
- Counterfactual reasoning
- Information search
- Causal cognition
- Reasoning fallacies and decision biases
- Applied reasoning and decision making

Ongoing projects

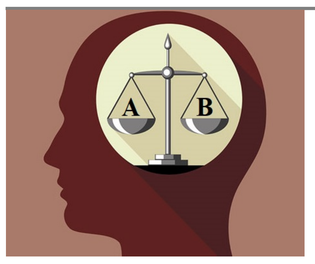
- Single and double conjunction fallacies
- Decision making under stress
- Path dependency in sequential decisions
- Decision making in older adults
- Counterfactual reasoning and blame attributions in older adults
- Counterfactual reasoning in social dilemmas
- Counterfactual reasoning in dynamic tasks
- The quantification of forecasting accuracy
- Bayesian updating with auditory and visual stimuli
- Probabilistic reasoning in preschoolers
- Improving medical risk communication
- The effect of Plan-Bs in legal reasoning
- Intelligent tutoring for probabilistic reasoning

How do we do it?

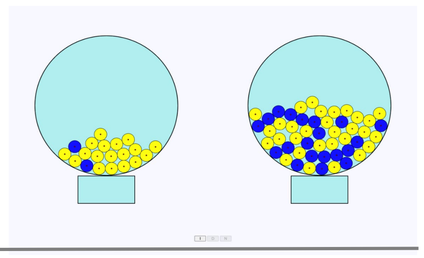
- Behavioral experiments (in the lab and online)
- Theoretical modelling
- Simulations

Scan the QR code for

- Contact information
- A copy of this poster
- Animations of our tasks!



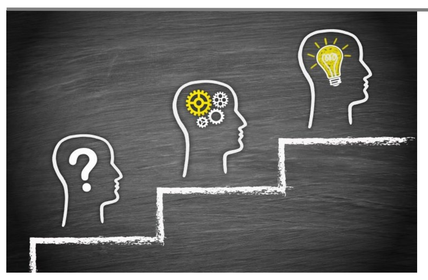
Bayesian updating



Children & Probabilities

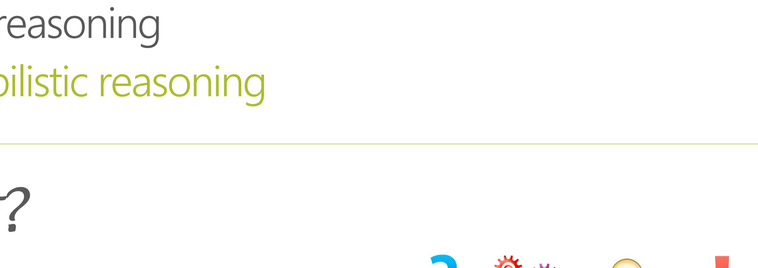
Forecasting

Counterfactual reasoning



Decision improvement

Decision under stress



Who are we?

- Katya Tentori, PhD, PI
- Stefania Pighin, PhD, PI
- Sarah Placì, Post-doc
- Ben Timberlake, Post-doc
- Flavia Filimon, Post-doc
- Andrea Dissegna, Post-doc
- Stefano Fait, PhD student
- Alessandro Bogani, PhD student
- Omar Coser, research fellow
- Alessia Caponio, Master's student

Whom do we work with?

- Ruth Byrne, Trinity College (Ireland)
- Nick Chater, Warwick Business School (UK)
- Vincenzo Crupi, University of Torino (Italy)
- Donatella Ferrante, University of Trieste (Italy)
- Cinzia Chiandetti, University of Trieste (Italy)
- David Lagnado, University College London (UK)
- Daniel Osherson, Princeton University (USA)
- Andrea Passerini, University of Trento (Italy)
- Ilana Ritov, Hebrew University (Israel)
- Lucia Savadori, University of Trento (Italy)