

Reasoning And Decision Group

What do we study at RAD?

People make dozens of inferences every day. These, indeed, are crucial for learning, hypothesis evaluation, evidence search and assessment, forecasting and, of course, decision making. Advancing the understanding of high-level cognitive processes is both theoretically fascinating and practically relevant, with implications for fields like medical decision making, legal reasoning, 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
- Reasoning fallacies & Decision biases
- Counterfactual thinking
- Conditional reasoning
- Forecasting
- Explainability in Al
- Nudging & Boosting
- Applied reasoning and decision making

Ongoing projects

- Reasoning with conditional statements
- The quantification of forecasting accuracy
- Single and double conjunction fallacies
- Probabilistic reasoning in preschoolers
- Bayesian updating with negative evidence
- Decision making under stress
- Path dependency in sequential decisions
- Decision making in older adults
- Counterfactual potency
- Counterfactual thinking in social dilemmas
- Improving medical risk communication
- The effect of Plan-Bs in legal reasoning
- Intelligent tutoring for probabilistic reasoning

How do we do it?

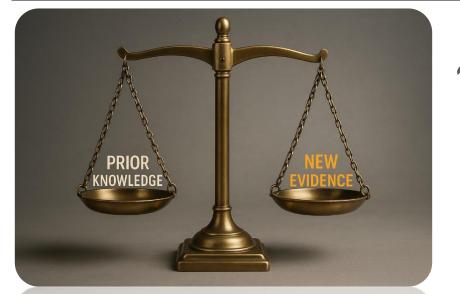
- Behavioral experiments (in the lab and online)
- Formal modelling
- Simulations





Scanthe QR code for

- Contact information
- A copy of this poster



Bayesian inferences

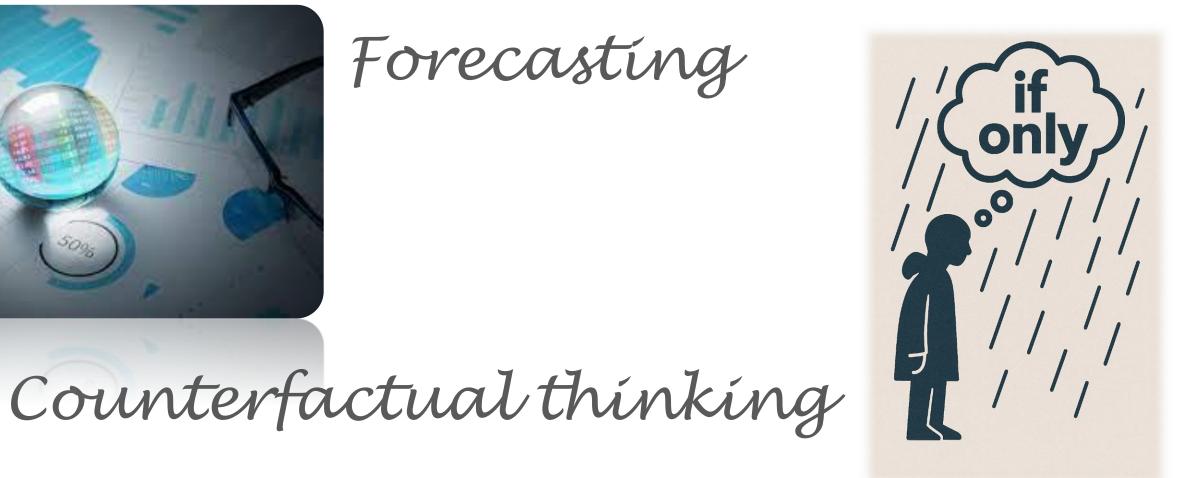
Children's reasoning





?

Forecasting





Decision biases and nudging

Decisions under stress



Who are we?

- Katya Tentori, PhD, Pl
- Stefania Pighin, PhD, Pl
- Alessandro Bogani, PhD, Post-Doc researcher



Whom do we work with?

- Sarah Bigi, Catholic University of Milan
- Ruth Byrne, Trinity College (Ireland)
- Nick Chater, Warwick Business School (UK)
- Vincenzo Crupi, University of Torino
- Donatella Ferrante, University of Trieste
- Andrea Iacona, University of Torino
- David Lagnado, University College London (UK)
- Andrea Passerini, University of Trento
- Fabio Paglieri, CNR-Roma
- Barbara Pellegrini, University of Verona
- Ilana Ritov, Hebrew University (Israel)
- Lucia Savadori, University of Trento
- Stefano Teso, University of Trento