



Marko Tešić

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Research Experience

Research Associate at **Leverhulme Centre for the Future of Intelligence, University of Cambridge** July 2023 – Present

- Working on evaluating AI cognitive capabilities by adapting physiological behavioral tests and the methods from psychometrics.
- As part of the **OECD** expert group provided scientific advice on the Future of work and progress of AI.
- Managing a team of researchers working estimating the impact of AI and the human workforce.

Royal Academy of Engineering UK IC Postdoctoral Research Fellow at Birkbeck, University of London Mar. 2021 – Feb. 2023

- Led a project on understanding the impact of AI explanations on human beliefs and decision-making.
- Worked with and presented work to the members of the UK, the US and Australian intelligences communities.
- Organised a workshop **Workshop on Human Behavioral Aspects of (X)AI** bringing together cognitive scientist and ML researchers from academia, industry and government working on and with (explainable) AI.

Researcher on *The Bayesian Approach to Robust Argumentation Machines* project at MCMP, LMU, Munich & Birkbeck, University of London Sep. 2021 – Feb. 2023

- Automated argument generation and evaluation from Bayesian network models.

Data Study Group (DSG) Principal Investigator at the **Alan Turing Institute** Oct. 2022 – April 2023

- Led the scoping and execution of a data science challenge with the UK Department for Transport, supervising participants and ensuring high-quality solutions and reporting.

Research Intern at **BlackRock, Factor Based Strategies Group** Oct. 2019 – Mar. 2020

- Developed causal Bayesian models of investment factors and ESG criteria.

Member of the Translation Team UK on the project *Bayesian Argumentation via Delphi (BARD)* within **IARPA** at Birkbeck, University of London & UCL Oct. 2017 – Nov. 2018

- Created intelligence gathering-inspired situations
- Built Bayesian network models of these situations
- Fully designed, ran, and analyzed experiments testing people's evidential, causal, and probabilistic reasoning

Education

Ph.D. in Psychology 2020

Department of Psychological Sciences, Birkbeck, University of London, UK

Thesis: *Explanation and Argument*

Focus: causal-probabilistic reasoning, Bayesian networks, psychology of explanations

Supervisors: **Ulrike Hahn** and **David Lagnado**

M.A. in Logic and Philosophy of Science 2016

Munich Center for Mathematical Philosophy, Ludwig Maximilian University, Munich, Germany

B.A. in Philosophy 2014

University of Belgrade, Serbia

Selected Work

- **Marko Tešić***, John Burden*, Lorenzo Pacchiardi*, José Hernández-Orallo (2025). **Paradigms of AI Evaluation: Mapping Goals, Methodologies and Culture**. *Preprint*
 - **Marko Tešić***, Lorenzo Pacchiardi*, Lucy Cheke, José Hernández-Orallo (2024). **Leaving the barn door open for Clever Hans: Simple features predict LLM benchmark answers**. *Preprint*
 - Matteo Gabriel Mecattaf*, Ben Slater*, **Marko Tešić**, Jonathan Prunty, Konstantinos Voudouris, Lucy Cheke (2024). **A little less conversation, a little more action, please: Investigating the physical common-sense of LLMs in a 3D embodied environment**. *Preprint*
 - Rakshit S. Trivedi et al. (2024). **Melting Pot Contest: Charting the Future of Generalized Cooperative Intelligence**. *NeurIPS 2024 Track on Datasets and Benchmarks*.
 - **Marko Tešić**, & Janet Slesinski (2024). **Benchmark Design Criteria for Mathematical Reasoning in LLMs**. *Center for Curriculum Redesign*.
 - **Marko Tešić** & Ulrike Hahn (2023). **The impact of explanations as communicative acts on belief in a claim: The role of source reliability**. *Cognition*, 240(105586).
 - Ulrike Hahn & **Marko Tešić** (2023). **Argument and Explanation**. *Philosophical Transactions of the Royal Society A*, 381(2251). Theme issue on *Cognitive Artificial Intelligence*.
 - **Marko Tešić** & Ulrike Hahn (2022). **Can counterfactual explanations of AI systems' predictions skew lay users' causal intuitions about the world? If so, can we correct for that?** *Patterns*, 3(12).
 - **Marko Tešić** (2021). On the transferability of insights from the psychology of explanation to explainable AI. **Human Centered AI workshop at NeurIPS 2021**.
 - **Marko Tešić** & Ulrike Hahn (2021). **Explanation in AI systems**. In S. Muggleton & N. Chater (Eds.), *Human-Like Machine Intelligence* (pp. 114–136). Oxford University Press.
 - **Marko Tešić***, Alice Liefgreen*, & David Lagnado (2020). **The propensity interpretation of probability and diagnostic split in explaining away**. *Cognitive Psychology*, 121.
 - Nicole Cruz, Saoirse Desai, Stephen Dewitt, Ulrike Hahn, David Lagnado, Alice Liefgreen, Kirsty Phillips, Toby Pilditch & **Marko Tešić** (2020). **Widening access to Bayesian problem solving**. *Frontiers in Psychology*, 11, 660.
 - Alice Liefgreen*, **Marko Tešić***, & David Lagnado (2018). **Explaining away: Significance of priors, diagnostic reasoning, and structural complexity**. In T. T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (pp. 2047–2052). Austin, TX: Cognitive Science Society.
- * equal contribution; Full list of publications available via [Google Scholar](#).

Selected Presentations

- Robust evaluation of Generative AI**. I presented a tutorial on evaluating large language models June 20, 2024 at the European Association for Data Science summer school on generative AI.
- AAAI-24 tutorial: Measurement Layouts for Capability-Oriented AI Evaluation**. I co- Feb. 20, 2024 organized a tutorial on Bayesian hierarchical models for learning the AI capability and presented my work on inferring LLM capabilities.

Supervision and Teaching

- Managing** a Postdoc and Research Assistant on an **Accenture**-backed project assessing Jan. 2024 – Present AI's core cognitive capabilities for workplace tasks. CFI, University of Cambridge
- Visiting Lecturer** for the M.A. courses *Computational Approaches to Mind and Fundamental Debates in Cognitive Science*. Department of Psychological Sciences, Birkbeck, University of London Jan. 2023 – Apr. 2023
- Visiting Lecturer** for the M.A. course *Cognitive and Economic Science of Rational Choice*. Oct. 2020 – Dec. 2020 Department of Psychology and Economics, City, University of London

Honors and Awards

- The Alan Turing Institute Post-Doctoral Enrichment Award** July 2022 – Jan. 2023
- The Royal Academy of Engineering UK IC Postdoctoral Research Fellowship (£200,000)** Mar. 2021 – Feb. 2023
- Ph.D. studentship (IARPA & Birkbeck, University of London) 2017 – 2020
- Dositeja** scholarship for graduate studies 2017/18; 2015/16; 2014/15
- BAYHOST** scholarship for graduate studies 2015/16; 2014/15