

Julian García

Department of Artificial Intelligence and Data Science.

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Professional appointments

Faculty of Information Technology, Monash University <i>Associate Professor</i>	Melbourne, Australia 2023 –
Faculty of Information Technology, Monash University <i>Lecturer / Senior Lecturer</i>	Melbourne, Australia 2014 – 2023
Faculty of Engineering, National University of Colombia <i>Profesor Adjunto</i>	Bogotá, Colombia 2015 – Present
Max Planck Institute for Evolutionary Biology <i>Postdoctoral fellow</i>	Plön, Germany 2010 – 2013

Education

Vrije Universiteit, Amsterdam <i>Doctor (PhD)</i> Computational and mathematical models in evolutionary game theory. Supervisor: Prof. Matthijs van Veelen	2011
National University of Colombia <i>Computer and Systems Engineering – with Honours, Bogotá</i> “Tesis meritoria” – Distinguished dissertation – 5 year degree.	2004

Research Profile

I use computation and game theory to understand complex social interactions. My research revolves around the question of how groups of agents can learn to coordinate individual decisions to achieve collective goals. Most of my research focuses on social dilemmas, i.e., situations where poor group outcomes arise from optimal individual choices. We use this framework to study: Multi-agent Systems and AI, Science and the production of knowledge, and Misinformation and Social Dynamics.

Selected Publications

Full list (and metrics) available via [google scholar](http://bit.ly/garcia_scholar) at: http://bit.ly/garcia_scholar.

- **García, J** and Traulsen A. Picking strategies in games of cooperation. *Proceedings of the National Academy of Sciences* 122.25 (2025): e2319925121.
- Graser, C., Fujiwara-Greve, T., **García, J** . and Van Veelen, M. (2025). Repeated games with partner choice. *PLOS Computational Biology*, 21(2), e1012810.
- Khajehnejad, M., **García, J** and Meyer, B. (2025). Age polyethism can emerge from social learning: A game-theoretic investigation. *PLOS Computational Biology*, 21(8), e1013415.
- K Zollman, **García J** and Handfield T. Academic journals, incentives, and the quality of peer review: a model. (2024). *Philosophy of Science*, 91(1), 186-203.
- Anastassacos N, **García J**, Hailes S and Musolesi M. Cooperation and Reputation Dynamics with Reinforcement Learning. In *Proceedings AAMAS 2021, London, UK, 2021, IFAAMAS*.
- **García J** and Traulsen A. Evolution of coordinated punishment to enforce cooperation from an unbiased strategy space. (2019). *Proceedings of the Royal Society Interface*, 16: 20190127.

- **García J** and van Veelen M. In and out of equilibrium: evolution of strategies in repeated games with discounting (2016). *Journal of Economic Theory* 161, 161–189.

Recent Research Funding

- Monash FIT Sustainability Fund. **Fighting Climate change misinformation with IT.** 92,000 AUD. 2022–2023.
- Australian Research Council – DP190100041. **Governing the knowledge commons.** 302,059 AUD. 2019–2023.
- Facebook Inc. **A game theoretic approach to evolving and analysing mechanism design in WES.** 69,059 AUD. 2020.
- Australian Research Council – DP180100154. **Modelling collective behaviour to protect social insect ecosystem services.** 325,250 AUD. 2018–2022.

Editorial Positions

- Academic Editor for PLOS Complex Systems. 2024 – Present.
- BMC Evolutionary Biology, Associate Editor. 2018 – Present
- Recent Program Committees in CS conferences: AAMAS (2025, 2024, 2023, 2022, 2021); AAAI (2025, 2024); IJCAI (2024, 2021)
- I regularly review for: PNAS, Nature, PLOS Computational Biology, Proceedings of the Royal Society Interface, Journal of Economic Theory, Journal of Economic Behaviour and Organisation, Games, Journal of Social Simulation amongst others.

Teaching

- **Introduction to Artificial Intelligence.** Faculty of Information Technology, Monash University 2026.
- **Computational Modelling and Simulation .** Faculty of Information Technology, Monash University 2018 – 2025.
- **Introduction to Computer Science.** Information Technology, Monash University 2015 – 2018
- **Algorithmic Problem Solving.** Information Technology, Monash University 2014 – 2015.

Service and Leadership

- Deputy Director *Research*, (2026 – Present) DSAI, Faculty of Information Technology – Monash University.
- Director *Academic Programs*, (2023 – 2025) Faculty of Information Technology – Monash University.
- Director *Undergraduate Studies*, (2020 – 2023) Faculty of Information Technology – Monash University.
- Director *BSc Computer Science*, (2019 – 2020); *BSc Computer Science Honours*, (2019 –); *BSc Computer Science Advanced Honours*, (2018 –). Faculty of Information Technology – Monash University.