

Education

University of Oxford	Doctor of Philosophy in Statistics (with A/Prof Robin Evans)	2020 - present
 Cofounded the Causal Incention 	2021-present	
Imperial College, London	Master of Science in Bioinformatics and Theoretical Systems Biology	2014 - 2015
Monash University	Bachelor of Medicine / Bachelor of Surgery w/ Distinction	2008 - 2012

Employment

DeepMind	Research Intern	Jul 2022 - Oct 2022
University of Oxford, Future of Humanity Institute	Research Fellow	Nov 2018 - Jul 2022
 Team lead for Al safety 		2019-2022
OpenAI	Research Engineering Intern	2018
University of Oxford, Future of Humanity Institute	Research Intern	2016 - 2017
Machine Intelligence Research Institute	Assistant Research Fellow	2016 - 2017

Publications

- o Human Control: Definitions and Algorithms. R. Carey, T. Everitt. UAI, 2023.
- Reasoning about Causality in Games. L. Hammond, J. Fox, T. Everitt, R. Carey, A. Abate, M. Wooldridge. AlJ, 2023.
- o Path-specific Objectives for Safer Agent Incentives. S. Farquhar, R. Carey, T. Everitt. AAAI, 2022.
- A Complete Criterion for Value of Information in Soluble Influence Diagrams.
 C. van Merwijk*, R. Carey*, T. Everitt. AAAI, 2022.
- Why Fair Labels Can Yield Unfair Predictions: Graphical Conditions for Introduced Unfairness.
 C. Ashurst, R. Carey,
 Chiappa, T. Everitt. AAAI, 2022.
- o *PyCID: A Python Library for Causal Influence Diagrams.* J. Fox, T. Everitt, **R. Carey**, E. Langlois, A. Abate, M. Wooldridge, Scipy, 2021.
- o Agent Incentives: a Causal Perspective. T. Everitt*, R. Carey*, E. Langlois*, PA. Ortega, S. Legg. AAAI, 2021.
- o (When) Is Truth-telling Favored in Al Debate?. Kovarik, Vojtech, and Carey, Ryan. SafeAl@AAAI, 2020.
- o How useful is quantilization for mitigating specification-gaming?. Carey, Ryan. ICLR workshop, 2019.
- o Incorrigibility in the CIRL Framework. Carey, Ryan. Proceedings of AIES, 2018.
- Predicting Human Deliberative Judgments with Machine Learning. Evans, O, Stuhlmuller, A, Cundy, C, Carey, R,
 Kenton, Z, McGrath, T, & Schreiber, A. Technical report, University of Oxford, 2018.

Teaching & Invited Presentations

- 2023 Statistical Programming, Teaching Assistant, Oxford
- 2022 Probability Theory, Teaching Assistant, Oxford
- 2019 DeepMind Safety Seminar, The Incentives that Shape Behaviour
- 2019 DeepMind Iceland AGI Safety Workshop, The Incentives that Shape Behaviour
- 2019 Oxford's Centre for Doctoral Training, Incentives and AI Safety [lecture and tutorial]
- 2018 Center for Human-compatible AI, UC Berkeley, Incorrigibility in the CIRL Framework
- 2018 AAAI/ACM Conference on AI, Ethics, and Society, Incorrigibility in the CIRL Framework

Awards

- 2023 **Top 10% Reviewer at AIStats**
- 2019 Alignment Prize: Second Prize, \$2,500