

Eoin Travers

Curriculum Vitae

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*PhD in Cognitive Psychology; Statistics/Data analysis;
Programming; Strong communication skills*

Skills

- Data Analysis Generalized Linear Regression; Multilevel Modelling; Multivariate statistics; Time course analyses; Bayesian inference; Hypothesis testing
- Programming Python; R; HTML; JavaScript; MATLAB; Version control (git); Excel/VBA; Open source software
- Data Collection Experimental design; Mouse tracking; Eye tracking; Web-based data collection
- Communication Oral presentations of research at international conferences; Written publication under review at major academic journal

Research

- PhD Thesis My PhD looks at the role of conflict in human reasoning, and uses recordings of people's mouse cursor movements as a measure of the processes underlying high-level cognition.
- Knowledge in Induction What kind of information do we draw upon to make sense of the world? I'm interested in how different kinds of structured and unstructured knowledge interact in inductive reasoning.
- Intuition in Reasoning Some of my PhD work looks at how intuition and deliberation interact and conflict during reasoning, particularly in situations where our intuitions lead us astray.
- Development of Regret Often, we make decisions to avoid things we'll regret, rather than achieve things we want. I help design and analyse games which investigate to what extent children do this too.
- Temporal Dynamics More broadly, I believe we can learn much more about complex processes like thinking if we look beyond their outputs (decisions), and record and analyse how these processes unfold over time.
- New Research Tools Research relies more than ever on software, and this software should be freely available to all researchers. I contribute to the development of *OpenSesame*, an open source experiment builder, and created *PsychScript*, a set of tools for online data collection, *squeak*, a python package for analysing mouse tracking data, as well as number of other small open source projects.

Publications

- Travers, E., Rolison, J. & Feeney, A. (in revision). The Time Course of Conflict on the Cognitive Reflection Test. *Cognition*.
- Travers, E., Feeney, A. & Rolison, J. (in preparation). Similarity, and then Conceptual Knowledge drive Category-based Induction. To be submitted to *Psychological Science*.
- Feeney, A., O'Connor, E., McCormack, T., Travers, E. & Beck, S.J. (in preparation) Missed opportunities and risk taking in children's decision making. To be submitted to *Journal of Experimental Child Psychology*.
- Travers, E., Rolison, J., Bright, A. & Feeney, A. (in preparation). Associative and Structured Knowledge Interact in Category-based Induction.
- Travers, E., Rolison, J. & Feeney, A. (in preparation). The Response Dynamics of Base Rate Neglect.
- Travers, E., Rolison, J., Bright, A. & Feeney, A. (2015). Relations between Associative and Structured Knowledge in Category-based Induction. In G. Airenti, B. G. Bara, G. Sandini (Eds.) *Proceedings of the EuroAsianPacific Joint Conference on Cognitive Science*. Torino, Italy. ([pdf](#))
- Travers, E. & Feeney, A. (2013) Diverse Evidence for Dissociable Processes in Inductive Reasoning. In M. Knauff, M. Pauen, N. Sebanz & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX. ([pdf](#))

Presentations

- Travers, E., Rolison, J., Bright, A. & Feeney, A. (2015). *Relations between Associative and Structured Knowledge in Category-based Induction*. EuroAsianPacific Joint Conference on Cognitive Science, Turin, Italy.
- Feeney, A., O'Connor, E., McCormack, T., Travers, E. & Beck, S. (2015) *Regret and responsiveness to missed opportunities in young children*. Subjective Probability, Utility, and Decision Making (SPUDM) Conference, Budapest, Hungary. (Presented by A. Feeney)
- Travers, E., Feeney, A., & Rolison, J. (2015). *The Time Course of Conflict on the Cognitive Reflection Test*. 9th London Reasoning Workshop, Birkbeck.
- Travers, E., Feeney, A., & Rolison, J. (2015). *Dual processes in decision making: Minute-long mouse-tracking reveals conflicting processes* European Group for Process Tracing Studies (EGPROC) Meeting, MPIB, Berlin.
- Travers, E. (2014). *PsychScript: A new HTML5 library for online data collection*. Society for Computers in Psychology (SCiP). Long Beach, CA.
- Travers, E., Feeney, A., Rolison, J. & Bright, A. (2014). Knowledge Selection and Response Dynamics in Category-Based Induction. 55th Meeting of the Psychonomic Society. Long Beach, CA.
- Travers, E., Feeney, A., Rolison, J. & Bright, A. (2014). *Knowledge Selection and Response Dynamics in Category-Based Induction*. 8th London Reasoning Workshop, Birkbeck.
- Travers, E. & Feeney, A. (2013) *Diverse Evidence for Dissociable Processes in Inductive Reasoning*. 35th Annual Conference of the Cognitive Science Society. Berlin.

Education

- 2015 **Ph.D. Psychology**, *Queens University Belfast, (Submitting October 2015).*
Continuous Measurement of Conflict during Reasoning
- 2012 **B.Sc. Psychology**, *Queens University Belfast, First class honours.*

Teaching

- Demonstrating in undergraduate statistics/methods lab classes.
- Undergraduate lecturing (topics covered: Intuitive Decision Making; Expert Clinical Judgement).
- Essay/lab report marking.

Referees

Aidan Feeney

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