

## CHARLOTTE E R EDMUNDS

Warwick Business School, University of Warwick, UK  
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### Education

**PhD investigating the processes of category learning** Plymouth University, UK, 2013-2017.

**MSc in Psychological Research Methods** University of Exeter, UK, 2012-2013.

**Achieved a Distinction and Dean's Award.**

**BSc Psychology** University of Exeter, UK, 2009-2012.

**Achieved a 1<sup>st</sup> Class (Hons) degree.**

**BSc Mathematics with Applied Mathematics/Mathematical Physics** Imperial College London, UK, 2006-2009. **Achieved a 2:2.**

### Research Experience

**Postdoctoral research fellow: Accumulating to choose** Supervisors: Prof. Neil Stewart & Dr. Tim Mullett, University of Warwick, UK, 2018-present.

**Postdoctoral research associate: Human-robot interaction** Supervisors: Prof. Tony Belpaeme & Dr. Séverin Lemaignan, University of Plymouth, UK, 2018.

**Consultant (statistical analysis)** Supervisor: Prof. Emmanuel Pothos, City, University of London, UK, 2018.

**Postdoctoral research associate: Uncertainty in associative learning** Supervisor: Prof. Christopher J. Mitchell, University of Plymouth, UK, 2017-2018.

**Research assistant: Investigating child-robot interactions** Supervisors: Prof. Tony Belpaeme & Séverin Lemaignan, University of Plymouth, UK, 2017.

**Research assistant: Bistable perception** Supervisors: Prof. Sue Denham & Mihaela Taranu University of Plymouth, UK, 2017.

**PhD: Investigation of a dual-systems approach to category learning** Supervisors: Prof. Andy J Wills, Prof. Christopher J. Mitchell & Dr. Chris Berry, University of Plymouth, UK, 2013-2017.

**MSc project: Examining Ashby et al. (2002) using state-trace analysis** Supervisor: Dr. Fraser Milton, University of Exeter, UK, 2012-2013.

**Honorary Research Fellow** University of Exeter, England, 2011.  
Worked with Dr. Fraser Milton on strategies in categorisation

**Honorary Research Fellow** University of Exeter, England, 2011.  
Worked with Dr. Tim Kurz on recycling behaviours

### Professional accreditation

**Higher Education Academy** Associate member

**Experimental Psychology Society** Member

### Teaching experience

**Consultant: Open University** October, 2016-2017.

Providing additional assistance for students in using the software OpenSesame.

**Module: Communicating effectively** Spring 2017.

Delivering workshops to first year psychology undergraduates.

**Module: Case studies** Spring 2017.

Delivering workshops to second year psychology undergraduates.

**Consultant: Open University** Summer, 2016

Developing course materials for Open University students for the course "Investigating Psychology 3."

**Module: Psychological research methods** Autumn 2014, 2015, 2016.

Delivering workshops to second year psychology undergraduates.

**Module: Psychobiological and Cognitive Aspects of Health Behaviour** Spring, 2016, 2017

Assisting in workshops for first year undergraduate health and social science students.

**Supervision: Third year project students** 2014-2015.

Supervising two third year project students.

### Papers

#### Published

Wills, A. J., Edmunds, C. E. R., Le Pelley, M. E., Milton, F., Newell, B. R., Dwyer, D. M., & Shanks, D. R. (Online, 2019). Dissociable learning processes, associative theory, and testimonial reviews: A comment on Smith and Church (2018). *Psychonomic Bulletin & Review*, 1–15. doi: 10.3758/s13423-019-01644-3

Bartlett, M., Edmunds, C. E. R., Lemaignan, S., Belpaeme, T., & Thill, S. (2019) What can you see? Identifying internal states from the kinematics of natural social interaction. *Frontiers in Human-Robot Interaction*. doi: 10.3389/frobt.2019.00049

- Edmunds, C. E. R., Wills, A. J. & Milton, F. N. (2019) Initial training with difficult items does not facilitate information-integration category learning. *Quarterly Journal of Experimental Psychology: Special Issue*, 72(2), 151-167. doi: 10.1080/17470218.2017.1370477
- Seabrooke, T., Hogarth, L., Edmunds, C. E. R., & Mitchell, C. J. (2019) Goal-directed cue-control in Pavlovian Instrumental Transfer. *Journal of Experimental Psychology: Animal Learning and Cognition*, 45, 95-101. doi: 10.1037/xan0000191
- Lemaignan, S., Edmunds, C. E. R., Senft, E. & Belpaeme, T. (2018) The PInSoRo dataset: supporting the data-driven study of child-child and child-robot social dynamics. *PlosOne*. doi: 10.1371/journal.pone.0205999
- Bartlett, M., Edmunds, C. E. R., Lemaignan, S., Belpaeme, T., & Thill, S. (2018) What can you see? Identifying cues on internal states from the kinematics of natural social interactions. *Interaction Design and Children Workshop*.
- Wallbridge, C. D., van den Berghe, R., Hernandez Garcia, D., Kanero, J., Lemaignan, S., Edmunds, C., & Belpaeme, T. (2018) Using a Robot Peer to Encourage the Production of Spatial Concepts in a Second Language. *HAI*.
- Edmunds, C. E. R., Milton, F. & Wills, A. J. (2018) Due process in dual process: Model-recovery simulations of decision-bound strategy analysis in category learning. *Cognitive Science*, 42, 833-860. doi: 10.1111/cogs.12607
- Wallbridge, C. D., Lemaignan, S., Senft, E., Edmunds, C. & Belpaeme, T. Spatial referring expressions in child-robot interaction: Let's be ambiguous! *HRI 2018*.
- Edmunds, C. E. R., Milton, F. & Wills, A. J. (2017) Due process in dual process: A model-recovery analysis of Smith et al. (2014). Proceedings of the 39th Annual Conference of the Cognitive Science Society.
- Wills, A. J., O'Connell, G., Edmunds, C. E. R. & Inkster, A. B. (2017) Progress in modeling through distributed collaboration: Concepts, tools, and category-learning examples. *Psychology of Learning and Motivation*.
- Edmunds, C. E. R., Wills, A. J. & Milton, F. (2016) Memory for exemplars in category learning. Proceedings of the 38th Annual Conference of the Cognitive Science Society.
- Edmunds, C. E. R., & Wills, A. J. (2016) Modelling category learning using a dual-system approach: A simulation of Shepard, Hovland and Jenkins (1961) by COVIS. Proceedings of the 38th Annual Conference of the Cognitive Science Society.
- Edmunds, C. E. R., Milton, F., & Wills, A. J. (2015). Feedback can be superior to observational training for both rule-based and information-integration category structures. *Quarterly Journal of Experimental Psychology*, 68(2), 1203-1222.

### Under review

- Inkster, A. B., Milton, F., Edmunds, C. E. R., & Wills, A. J. Neural correlates of the inverse base rate effect. *Journal of Cognitive Neuroscience*, 1–11. <https://psyarxiv.com/muqrh/>
- Edmunds, C., Inkster, A., Jones, P. M., Milton, F., & Wills, A. The limits of far transfer in perceptual categorization. *Memory & Cognition*, 1–17. <https://psyarxiv.com/8vm2u/>
- Bartlett, M. B., Edmunds, C. E. R., Belpaeme, T., & Thill, S. Have I got the power? A comparison of past and present reporting practice for replication in Human-Robot Interaction. *HRI 2020*.

### In preparation

- Edmunds, C. E. R., Bose, D., Camerer, C. F., Mullett, T. L. & Stewart, N. Limited accumulation in binary choice. *Nature Human Behaviour*.
- Edmunds, C. E. R., Mullett, T. L. & Stewart, N. Attention plays similar role in binary choice and preference estimation tasks. *Decision*.
- Edmunds, C. E. R., Milton, F. & Wills, A. J. Recognition memory in rule-based and information-integration category structures. *Cognitive Science*.
- Inkster, A. B., Edmunds, C. E. R. & Wills, A. J. Failure to model canonical dual-system evidence using COVIS. *Journal of Mathematical Psychology*.
- Edmunds, C. E. R., Carpenter, K. L., Wills, A. J. & Milton, F. Deferred feedback does not sharply dissociate implicit and explicit category learning. *Psychological Science*.

## Conferences

### Invited:

- Symposium, Tagung Experimentell Arbeitender Psychologen** London Metropolitan University, April 2019. "Due process in dual process theories of category learning."
- Symposium, Cognition Institute Conference** University of Plymouth, UK, June 2018. "Due process in dual process theories of category learning."

**Workshop, University of Exeter** University of Exeter, UK, July 2017.

“Due process in dual process: The pitfalls of using strategy analyses in dual-system models of category learning”

**International Convention of Psychological Science (ICPS)** Amsterdam, Holland, March 2015.

“Dual-system approaches to cognition: Some thoughts and concerns”

#### **Organised:**

**MINDFIELD: 6th Annual School of Psychology Conference** Plymouth University, UK, June 2014.

#### **Regular presentation:**

**Experimental Psychology Society Meeting** London, UK, January 2019.

“Recognition performance after rule-based and information-integration categorization.” Edmunds, C. E. R., Milton, F. N., & Wills, A. J.

**Annual Meeting of the Psychonomics Society** New Orleans, US, November 2018.

“Due process in dual-process theories of category learning.” Edmunds, C. E. R., Milton, F. N., & Wills, A. J.

**Cognitive Science Society 38th Annual Conference** Philadelphia, US, August 2016.

“Memory for exemplars in category learning.” Edmunds, C. E. R., Wills, A. J. & Milton, F.

**Associative Learning Symposium XVII** Gregynog, Wales, March 2015.

“Initial training with difficult items does not facilitate information-integration category learning” Edmunds, C. E. R. & Wills, A. J.

**Experimental Psychology Society Meeting** London, UK, January 2015.

“Feedback is superior to observational training for both rule-based and information-integration category learning” Edmunds, C. E. R., Milton, F. N., & Wills, A. J.

**Associative Learning Symposium XVI** Gregynog, Wales, March 2014.

“Feedback is superior to observational training for both rule-based and information-integration category learning” Edmunds, C. E. R., Milton, F. N., & Wills, A. J.

#### **Posters:**

**Cognitive Science Society 39th Annual Conference** London, UK, August 2017

“Due process in dual process: A model-recovery analysis of Smith et al. (2014)” Edmunds, C. E. R., Milton, F. & Wills, A. J.

**Experimental Psychology Society Meeting** London, UK, January 2017.

“Modelling category learning using a dual-system approach: A simulation of Shepard, Hovland and Jenkins (1961) by COVIS.” Edmunds, C. E. R., & Wills, A. J.

**Cognitive Science Society 38th Annual Conference** Philadelphia, US, August 2016.

“Modelling category learning using a dual-system approach: A simulation of Shepard, Hovland and Jenkins (1961) by COVIS.” Edmunds, C. E. R., & Wills, A. J.

**Associative Learning Symposium XVIII** Gregynog, Wales, March 2016.

“Comparison of recognition memory for exemplars between rule-based and information-integration category structures” Edmunds, C. E. R., Wills, A. J. & Milton, F.

#### **Workshops:**

**MathPsych/ICCM** University of Warwick, July 2017

“A Practical Introduction to Distributed Collaboration for Formal Modeling” Wills, Edmunds, Kurtz & Honke

#### **Grants**

Grindley Grant £500 (2019)

Pump priming £900 (2017)

University of Plymouth Research Grant £45,000 (2013)

#### **Awards**

Dean’s Award for MSc Dissertation