

# Tom E. Hardwicke

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Postdoctoral Fellow

Meta-Research Innovation Center at Stanford (METRICS)

Stanford University

Advisors: John Ioannidis, Steven Goodman, & Michael Frank

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## Education

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2016 **PhD Experimental Psychology**

University College London, United Kingdom.

2012 **MRes Brain Imaging and Cognitive Neuroscience**

The University of Birmingham, United Kingdom.

2011 **BSc Psychology** (First Class Honours)

Cardiff University, United Kingdom.

## Awards

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2013 **Best Poster Prize**

Economic and Social Research Council Annual Meeting.

2011 **The George Westby Prize** (highest degree grade)

Cardiff University.

2011 **The Stuart Diamond Memorial Prize** (best final year project)

Cardiff University.

2011 **The British Psychological Society Undergraduate Award**

Cardiff University.

2010 **Best Presentation Award**

British Psychological Society Student Conference.

## Publications

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- Klein, O., **Hardwicke, T. E.**, Aust, F., Breuer, J., Danielsson, H., Hofelich Mohr, A., IJzerman, H., Nilsonne, G., Vanpaemel, W., & Frank, M. C. (preprint). [A practical guide for transparency in psychological science](#). [osf]
- Hardwicke, T. E.**, Mathur, M. B., MacDonald, K. E., Nilsonne, G., Banks, G. C., Kidwell, M. C., Hofelich Mohr, A., Clayton, E., Yoon, E. J., Henry Tessler, M., Lenne, R. L., Altman, S., Long, B., & Frank, M. C. (preprint). [Data availability, reusability, and analytic reproducibility: Evaluating the impact of a mandatory open data policy at the journal Cognition](#). [osf]
- Hardwicke, T. E.**, Tessler, M. H., Peloquin, B. N., Frank, M. C. (in press). [A Bayesian decision-making framework for replication](#). *Behavioral and Brain Sciences*.
- Cristea, I. A., Naudet, F., Shanks, D. R., **Hardwicke, T. E.** (2017). [Post-retrieval Tetris should not be likened to a 'cognitive vaccine'](#). *Molecular Psychiatry*. [osf]
- Hardwicke, T. E.** (2016). [Persistence and plasticity in the human memory system: An empirical investigation of the overwriting hypothesis](#). *PhD Thesis*. [osf]
- Hardwicke, T. E.** & Shanks, D. R. (2016). [Reply to Walker and Stickgold: Proposed boundary conditions on memory reconsolidation will require empirical verification](#). *Proceedings of the National Academy of Sciences of the United States of America*, 113, 1-2. [osf]
- Kidwell, M. C., Lazarević, L. B., Baranski, E., **Hardwicke, T. E.**, Piechowski, S., Falkenberg, L-S., Kennett, C., Slowik, A., Sonleitner, C., Hess-Holden, C., Errington, T. M., Fiedler, S., & Nosek, B. A. (2016). [Badges to acknowledge open practices: A simple, low cost, effective method for increasing transparency](#). *PLOS Biology*, 14, 1-15. [osf]
- Hardwicke, T. E.**, Mahdi, T., & Shanks, D. R. (2016). [Post-retrieval new learning does not reliably induce human memory updating via reconsolidation](#). *Proceedings*

of the National Academy of Sciences of the United States of America, 113, 5206-5211. [osf]

Vadillo, M. A., Hardwicke, T. E., Shanks, D. R. (2016). Publication bias, vote counting, and money priming effects: A comment on Rohrer, Pashler, and Harris (2015) and Vohs (2015). *Journal of Experimental Psychology: General*, 145, 655-663. [osf]

Baker, R., Dexter, M., Hardwicke, T. E., Goldstone, A., Kourtzi, Z. (2014). Learning to predict: Exposure to temporal sequences facilitates prediction of future events. *Vision Research*, 99, 124-133.

Ludwig, C. J. H., Farrell, S., Ellis, L. A., Hardwicke, T. E., & Gilchrist, I. D. (2012). Context-gated statistical learning and its role in visual-saccadic decisions. *Journal of Experimental Psychology: General*, 141, 150-169.

## Presentations

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Hardwicke, T. E. (2017). Open data are not enough: An evaluation of data availability and computational reproducibility at the journal Cognition. *Department of Psychology, Stanford University*. [talk]

Hardwicke, T. E. (2017). Open data are not enough: An evaluation of data availability and computational reproducibility at the journal Cognition. *Society for Improving Psychological Science Conference*. [talk]

Hardwicke, T. E. (2017). Principles of reproducible research. *Stanford SPECTRUM Scholars Seminar*. [talk]

Hardwicke, T. E., & Shanks, D. R. (2016). Revisiting the misinformation effect: Does reconsolidation overwrite existing memories? *6<sup>th</sup> International Conference on Memory*. [poster]

**Hardwicke, T. E., Mahdi, T., & Shanks, D. R. (2016).** Post-retrieval new learning does not reliably induce human memory updating via reconsolidation. *6<sup>th</sup> International Conference on Memory*. [talk]

**Hardwicke, T. E., & Shanks, D. R. (2015).** Does reconsolidation enable human memory updating? *Experimental Psychology Society London Meeting*. [talk]

**Hardwicke, T. E., & Shanks, D. R. (2014).** Does reconsolidation enable human memory updating? *UCL Faculty of Brain Sciences Symposium*. [poster]

**Hardwicke, T. E. (2013).** The stability and plasticity of human knowledge. *ESRC UCL DTC Annual Meeting*. [poster]

**Hardwicke, T. E., Ludwig, C. J. H., Farrell, S., Ellis, L. A., & Gilchrist, I. D. (2010).** Learning the environmental statistics facilitates effective gaze allocation. *BPS Welsh Branch Annual Student Conference*. [talk]

**Hardwicke, T. E., Ludwig, C. J. H., Farrell, S., Ellis, L. A., & Gilchrist, I. D. (2010).** Statistical learning facilitates effective gaze allocation. *BVI Young Researchers' Colloquium*. [poster]

## Grants and funding

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2016 **Travel Grant, International Conference on Memory**  
Experimental Psychology Society.

2016 **Travel Grant, International Conference on Memory**  
University College London.

2015 **ESRC Collaborative Placement Funding**  
Economic and Social Research Council.

2014 **Travel Grant, Human Factors in Science Symposium**  
University College London.

2012 **ESRC PhD Studentship**

Economic and Social Research Council.

2009 **Undergraduate Research Opportunities Program**

Cardiff University.

## Teaching experience

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- 2018 **Ad-Hoc Lecturer** (Repeatability, Reproducibility, and Validation). *Scientific Method and Bias (undergraduate-level)*, Stanford University.
- 2018 **Ad-Hoc Lecturer** (Principles of Reproducible Research). *Essentials of Clinical Research (graduate level)*, Stanford Medicine, Stanford University.
- 2017 **Ad-Hoc Lecturer** (On the Nature of Replication). *CSLI Summer School (undergraduate-level)*, Center for the Study of Language and Information, Stanford University.
- 2017 **Ad-Hoc Lecturer** (Building a Reproducible Research Workflow). *Essentials of Clinical Research (graduate-level)*, Stanford Medicine, Stanford University.
- 2014/16 **Postgraduate Teaching Assistant**. *Research and Quantitative Methods in Psychology (undergraduate-level)*, Department of Experimental Psychology, University College London.
- 2016 **Ad-hoc lecturer** (Introduction to Open Science). *Social Cognition (graduate-level)*, Department of Experimental Psychology, University College London.
- 2015 **Ad-hoc lecturer** (Introduction to Memory & Learning). *Cognitive and Decision Sciences (graduate-level)*, Department of Experimental Psychology, University College London.

## Supervision of student dissertation projects

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- 2017 Emily Huxtable (BSc).

2016 Bethany Manning (BSc).

2015 Gudmundur Haraldsson (MSc).

2014 Mahdi Taqi (MSc).

## Additional roles

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2017 - **Open Science Catalyst** | Berkeley Initiative for Transparency in  
present the Social Sciences (BITSS).

2015 - **Open Science Ambassador** | Center For Open Science.  
present

2015 **Scholar in Residence** | Center for Open Science.

2015 **Convener** | Is Science Broken? | Public debate | University  
College London.

2012 - 2015 **Co-founder of CRITUCL** | Postgraduate discussion group.

2012 - 2015 **Opticon1826 Faculty Editor (Brain Sciences)** | University College  
London.

2012 - 2014 **ESRC Student Representative** | University College London.

2009-2010 **Research collaborator** | School of Psychology | University of  
Bristol

Ad-hoc **Peer-Reviewer** | Royal Society Open Science | Research Integrity  
and Peer Review | Advances in Methods and Practices in  
Psychological Science (AMPPS) | Collabra: Psychology | Journal  
of Experimental Psychology: Learning Memory & Cognition  
(JEP:LMC) | Behavioural Brain Research.

## Open research practices

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The following can be found on my Open Science Framework page ([osf.io/i8w73](https://osf.io/i8w73)):

- Open data
- Open materials
- Open analysis scripts
- Pre-registered study protocols

## Programming languages

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R, Javascript, HTML.

## Referees

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Available on request.