

Tom E. Hardwicke

Postdoctoral Fellow

Meta-Research Innovation Center at Stanford (METRICS)

Stanford University

Advisors: John Ioannidis, Steven Goodman, & Michael Frank

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Education

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

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

Hardwicke, T. E. & Ioannidis, J. P. A. (preprint). [Mapping the universe of Registered Reports](#). [osf]

Klein, O., **Hardwicke, T. E.**, Aust, F., Breuer, J., Danielsson, H., Hofelich Mohr, A., IJzerman, H., Nilsson, 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., Nilsson, 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., Sonnleitner, 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

- Hardwicke, T. E. (2018).** Fostering the preservation, liberation, and re-use of data in psychological science. *Department of Psychology, U.C. Davis.* [talk]
- 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? *6th 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. *6th 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

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

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 projects

2018 Athena Braun (undergraduate).
2017 Emily Huxtable (undergraduate).
2016 Bethany Manning (undergraduate).
2015 Gudmundur Haraldsson (MSc).
2014 Mahdi Taqi (MSc).

Additional roles

2017 - **Open Science Catalyst** | Berkeley Initiative for Transparency
present in 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 | Collabra: Psychology | Journal of Experimental Psychology: Learning Memory & Cognition | Behavioural Brain Research.

Open research practices

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

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

Programming languages

R, Javascript, HTML.

Referees

Available on request.