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.

- 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., 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., 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. (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

- 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 ProgramCardiff 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 dissertation projects

- 2016 Bethany Manning (BSc).
- 2015 Gudmundur Haraldsson (MSc).
- 2014 Mahdi Taqi (MSc).

Additional roles

- 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

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.