tom.hardwicke@stanford.edu| tomhardwicke.netlify.com

Academic appointments

2017- Postdoctoral Fellow

present Meta-Research Innovation Center at Stanford (METRICS)

Stanford University, United States of America

Advisors: John Ioannidis, Steven Goodman, Michael Frank

Education

2016 PhD Experimental Psychology

University College London, United Kingdom.

Advisor: David Shanks

Thesis title: "Persistence and plasticity in the human memory system: An empirical investigation of the overwriting hypothesis"

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. (2018). Mapping the universe of Registered Reports.

 Nature Human Behaviour. 1-4.
- 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. (2018). Data availability, reusability, and analytic reproducibility: Evaluating the impact of a mandatory open data policy at the journal Cognition. *Royal Society Open Science*, 5, e180448.
- **Hardwicke, T. E.** & Ioannidis, J. P. A. (2018). Populating the Data Ark: An Attempt to retrieve, preserve, and liberate data from the most highly-cited psychology and psychiatry articles. *PLOS ONE*, *13*, e0201856.
- **Hardwicke, T. E.,** Tessler, M. H., Peloquin, B. N., Frank, M. C. (2018). A Bayesian decision-making framework for replication. *Behavioral and Brain Sciences*, 41, e132.
- Klein, O., **Hardwicke, T. E.**, Aust, F., Breuer, J., Danielsson, H., Hofelich Mohr, A., IJzerman, H., Nilsonne, G., Vanpaemel, W., & Frank, M. C. (2018). A practical guide for transparency in psychological science. *Collabra: Psychology*, *4*, 20.
- 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*. 1-2.
- **Hardwicke**, **T. E.** (2016). Persistence and plasticity in the human memory system: An empirical investigation of the overwriting hypothesis. *PhD Thesis*.
- 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.
- 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.

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.

- 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.
- 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., Mathur, M. B., Nilsonne, G., McCarthy, R., Hofelich Mohr, A., & Lindsay,
 D. S. (2018). Analysis Exchange: Developing an online platform to request verification of analytic reproducibility and statistical expertise. *Society for Improving Psychological Science Conference*. [talk]
- **Hardwicke, T. E.** (2018). SMART pre-registrations: Developing a citation system to facilitate comparison of protocols and papers. *Society for Improving Psychological Science Conference*. [talk]
- **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

- 2017- Postdoctoral Fellowship
- 2018 Meta-Research Innovation Center at Stanford (METRICS), USA.
- 2016 **Grindley Grant (travel), International Conference on Memory** Experimental Psychology Society, UK.
- 2016 Travel Grant, International Conference on Memory University College London, UK.
- 2015 **ESRC Collaborative Placement Funding** Economic and Social Research Council, UK.

- 2014 Travel Grant, Human Factors in Science Symposium University College London, UK.
- 2012 **ESRC PhD Studentship**Economic and Social Research Council, UK.
- 2009 Undergraduate Research Opportunities Program Cardiff University, UK.

Teaching experience

- 2018 **Ad-Hoc Lecturer** ("Writing reproducible research papers"). *Experimental Methods* (graduate-level), Department of Psychology, Stanford University.
- 2018 **Ad-Hoc Lecturer** ("Data visualization in R"). *Introduction to R (undergraduate-level)*, Department of Psychology, Stanford University.
- 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

- 2017 Emily Huxtable (undergraduate).
- 2016 Bethany Manning (undergraduate).
- 2015 Gudmundur Haraldsson (post-graduate).
- 2014 Mahdi Taqi (post-graduate).

Additional roles and professional service

2018-present	Chair (Conference Program Committee) Society for Improving Psychological Science 2019 Annual Conference.
2018-present	Executive Committee Member Society for Improving Psychological Science
2017 - present	Open Science Catalyst Berkeley Initiative for Transparency in the Social Sciences (BITSS).
2015 - present	Open Science Ambassador Center for Open Science.
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 PeerJ.

Open research practices

The following can be found via 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.