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## Academic appointments

2019- Postdoctoral Scholar

present Meta-Research Innovation Center Berlin (METRIC-Berlin),

BIH QUEST Center for Transforming Biomedical Research,

Charité - Universitätsmedizin Berlin, Germany

Advisor: John Ioannidis

2017-2018 Postdoctoral Fellow

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.

### Invited presentations

- Hardwicke, T. E. (2018). Rehabilitating the scientific ecosystem. The Bank of England. [talk]
- **Hardwicke, T. E.** (2018). What is this thing we call 'open science'? *Reproducible Science at Stanford, Stanford University*. [talk]
- **Hardwicke, T. E.** (2018). Fostering the preservation, liberation, and re-use of data in psychological science. *Department of Psychology, University of California, Davis*. [talk]
- **Hardwicke, T. E.** (2017). Principles of reproducible research. *Stanford SPECTRUM Scholars Seminar, Stanford University*. [talk]

## Conference 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.** (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.,** & 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

- 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** ("Principles of research reproducibility and transparency").

Essentials of Clinical Research (graduate level), Stanford Medicine, Stanford

University.

- Ad-Hoc Lecturer ("Creating reproducible research reports using R Markdown").

  2018

  SPSP Webinar. [with Michael Frank]
- 2018 **Ad-Hoc Lecturer** ("How to write a reproducible scientific paper"). *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- Postgraduate Teaching Assistant. Research and Quantitative Methods in Psychology
- 2016 (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 (masters).
2014	Mahdi Taqi (masters).

# Additional roles and professional service

2018 - present	<b>Chair (Conference Program Committee)</b>   Society for Improving Psychological Science 2019 Annual Conference.
2018 - present	<b>Executive Committee Member</b>   Society for Improving Psychological Science
2017 - present	<b>Open Science Catalyst</b>   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	<b>Convener</b>   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):

- Pre-prints
- Open data

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

# Programming languages

R, Javascript, HTML.

# Referees

Available on request.