

Dr. Dirk U. Wulff

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RESEARCH INTERESTS

I am interested in the cognitive underpinnings of human memory and decision making. To this end I study, in particular, experienced-based decision making and free recall from memory using computational modeling, network analysis, natural language processing, and process tracing. My broader interests include: Risky choice, bounded rationality, heuristics, information search, semantic memory, statistical methods, model selection.

EMPLOYMENT

- 2016- Researcher at the department for Cognitive and Decision Sciences, University of Basel.
- 2016- Adjunct Researcher at the Center for Adaptive Rationality (ARC), Max Planck Institute for Human Development, Berlin.
- 2015-2016 Postdoctoral Researcher at the Center for Adaptive Rationality (ARC), Max Planck Institute for Human Development, Berlin.
- 2015-2016 Lectureship at the department for Economic Psychology, University of Basel.
- 2015-2015 Postdoctoral Researcher at the department for Cognitive and Decision Sciences, University of Basel.
- 2015-2015 Postdoctoral Fellow at the Center for Adaptive Rationality (ARC), Max Planck Institute for Human Development, Berlin.

EDUCATION

- 2015 PhD from the University of Basel (summa cum laude)
- 2012-2014 Doctoral student at the Center for Adaptive Rationality (ARC), Max Planck Institute for Human Development, Berlin.
- 2010-2012 Doctoral student at the department for Cognitive and Decision Sciences, University of Basel
- 2010 Visiting scholar at Human Memory Lab at UC Davis, California.
- 2004-2010 Diploma in Psychology at Philipps-University Marburg

PUBLICATIONS

- Wulff, D. U., Mergenthaler-Canseco, M., & Hertwig, R. (in press). A meta-analytical review of two modes of learning and the description-experience gap. *Psychological Bulletin*.
- Wulff, D., U., & Van den Bos, W., (in press). Modeling choices in delay discounting? *Psychological Science*.
- Wulff, D., U., & Pachur, T., (2016). Modeling valuations from experience? A comment on Ashby and Rakow (2014). *Journal of Experimental Psychology: Learning, Memory and Cognition*.

- Kollewe, K., Escher, C. M., Wulff, D. U., Fathi, D., Paracka, L., Mohammadi, B., ... & Dressler, D. (2016). Long-term treatment of chronic migraine with OnabotulinumtoxinA: efficacy, quality of life and tolerability in a real-life setting. *Journal of Neural Transmission*, 123(5), 533-540.
- Wulff, D. U., Hills, T., & Hertwig, R. (2015). How short- and long-run frames impact search and choice in decisions from experience. *Cognition*, 144, 29-37.
- Wulff, D. U., Hills, T., & Hertwig, R. (2015). The description-experience gap and online product reviews. *Journal of Behavioral Decision Making*, 28, 214-223
- Hertwig, R., & Wulff, D. (2014). Risikoentscheidungen: Die Kluft zwischen Erfahrung und Beschreibung. *Controlling: Zeitschrift für erfolgsorientierte Unternehmenssteuerung*, 26, 630-636.

Submitted

- Haslbeck, J. M. B., & Wulff, D. U. (2016). Estimating the Number of Clusters via Normalized Cluster Instability. Manuscript submitted for publication.

Conference papers (peer reviewed)

- Wulff, D. U. Hills, T., Lachman, M., & Mata, R. (2016) The Aging Lexicon: Differences in the Semantic Networks of Younger and Older Adults. *Proceedings of the Cognitive Science Society*, 38.
- Wulff, D. U. Hills, T., Hertwig, R. (2013) Wormholes in Memory: Is memory one representation or many?. *Proceedings of the Cognitive Science Society*, 35.
- Wulff, D. U. Hills, T., Hertwig, R. (2012) Adaptive Information Search and Decision Making over Single and Repeated Plays. *Proceedings of the Cognitive Science Society*, 34.

Book chapters

- van den Bos, W., Jenny, M. A., & Wulff, D. (2015). Open minded psychology. In S. A. Moore (Ed.), *Issues in open research data* (pp. 107-127). London: Ubiquity Press.

In progress

- Wulff, D. U., Haslbeck, J. M. B., & Schulte-Mecklenbeck, M. (in prep). Measuring the (dis-) continuous mind.
- Wulff, D. U., Haslbeck, J. M. B., & Schulte-Mecklenbeck, M. (in prep). Measuring the (dis-) continuous mind.
- Wulff, D. U., Haslbeck, J. M. B., & Schulte-Mecklenbeck, M. (in prep). Measuring the (dis-) continuous mind.
- Lindskog, M. & Wulff, D.U. (in. prep.). How is experience represented in the mind?
- DeKay, M. J., Wulff, D. U., Lejarraga, T., Pachur, T., & Newell, B. (in prep.). How fungibility impacts information search in decisions from experience?

Monographies

- Wulff, D. U. (2015). *Information search in experienced-based choice and valuation: Challenges and applications*. (Unpublished doctoral thesis). University of Basel, Switzerland.
- Wulff, D. U. (2010). *Stochastic dependence in source Memory: Testing measurement models of retrieval experiences* (Unpublished diploma thesis). Philipps-University Marburg, Germany.

AWARDS & GRANTS

- 2016 Otto Hahn Medal, \$8,400.

- 2014 Funding for the Summer Institute on Bounded Rationality from the Joachim-Herz Foundation, \$240,000.
- 2013 Travel Grant of the Swiss National Science Foundation, \$3,200.
- 2013 Funding for the 6th JDM Workshop for Young Researchers from the European Association for Decision Making (EADM). \$4000
- 2012 Travel Grants of the Swiss National Science Foundation, \$4,600.
- 2011 Best Student Poster Award, 3rd place, Annual Conference for Judgment and Decision Making, Seattle, 2011.
- 2011 Travel Grants of the Swiss National Science Foundation, \$2,700.
- 2011 Invitation to the European Campus of Excellence.
- 2011 Invitation to the Summer School on Bounded Rationality of the Max Planck Institute for Human Development.
- 2010 Travel grant of the German Academic Exchange Service, \$500.

INVITED PRESENTATIONS

- Wulff, D. U. (2017). Two modes of learning and the description-experience gap. Presented at the TAPMI – Max Planck Winter School on Bounded Rationality, TAPMI, Manipal, India.
- Wulff, D. U. (2016). The issue of flexibility in computational (and verbal) models of JDM. Workshop presented at the 9th JDM workshop for Young Researchers at the University of Basel, Basel, Switzerland.
- Wulff, D. U. (2016). A meta-analytic review of the description-experience gap. Department for Consumer Behavior, University of Bern, Switzerland.
- Wulff, D. U. (2016). Hard, but worth it: Two case studies in raw data meta-analysis. Department for Consumer Behavior, University of Bern, Switzerland.
- Wulff, D. U. (2012). Information Search in Decisions from Experience. DR@W Forum at University of Warwick, UK.

TEACHING

- 2017- ‘Natural Language as tool for psychological research’, Seminar, University of Basel
- 2016-2017 ‘Networks in Psychology, Seminar, University of Basel
‘What are good decisions’, Seminar, University of Basel
- 2015-2016 ‘How to write a Bachelor thesis’, University of Basel
- 2011-2012 Undergraduate research seminars at University of Basel.
- 2010, July R-Workshop for the psychological methods department at Philipps-University Marburg.
- 2009-2011 TA for statistics at Philipps-University Marburg.

SUPERVISION

- Arben Kqiku, University of Basel, Master thesis
- Elena Efimova, University of Basel, Master thesis “Improving brand personality assessment using twitter”
- Jan Grenzbach, Free University Berlin, Master thesis – “Known unknowns”
- Florian Brühlmann, University of Basel, Intern – “Searching memory for countries”
- Max Mergenthaler Canseco, Free University Berlin, Intern – “The description-experience gap”
- Moria Braun, University of Marburg, Master thesis – “EEG correlates of verbal fluency for countries”

AD-HOC REVIEWER

Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory & Cognition
Cognitive Science
Journal of Behavioral Decision Making
Journal of Medical Decision Making
Computational Statistics
Memory & Cognition
Journal of Applied Research in Memory and Cognition
Quarterly Journal of Experimental Psychology
Social Psychology
Risk Analysis
Frontiers in Psychology

PROFESSIONAL TRAINING

Bernoulli Symposium on Risk, Basel, Switzerland, February 2017
Nature of preferences workshop. Potsdam, Germany, Apr 2016.
SNF Memory and Decision Making workshop. Hölstein, Switzerland, May 2015.
Bayesian Modeling for the Cognitive Science. A WinBUGS Workshop. University of Amsterdam,
August 2013
SNF Summer School on Computational Modeling of Cognition, Bergün, Switzerland, June, 2012.
Summer Institute on Bounded Rationality at the Max Planck Institute for Human Development,
Berlin. June, 2011.
Fate of the Memory Trace. Summer School of the European Campus of Excellence at the Ruhr-
University Bochum. September, 2011.
Bayesian Modeling in the Cognitive Sciences. Workshop at the University of Zürich. December 2010.
Cognitive Modeling in R. Workshop at the Philipps-University Marburg. December, 2010.