

## Alexander John Etz

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### EDUCATION

PhD in Psychology (Dept of Cognitive Sciences) 2016 – 2021 (expected)  
University of California, Irvine  
Advisor: Joachim Vandekerckhove

MSc in Statistics 2016 – 2018 (expected)  
University of California, Irvine

BA in Psychology 2009 – 2013  
The George Washington University  
Minor: Mind-Brain Studies

### RESEARCH EXPERIENCE

**NSF Graduate Research Fellow** University of California, Irvine  
2016 – present Irvine, CA  
Department of Cognitive Sciences  
PI: Joachim Vandekerckhove

**Visiting Researcher** University of Amsterdam  
Various periods since 2015 (ongoing) Amsterdam, The Netherlands  
Methodology Unit, Department of Psychology  
PI: Eric-Jan Wagenmakers

**Lab Manager** The University of Texas at Austin  
June, 2014 – May, 2015 Austin, TX  
Department of Psychology  
LAB: Cognition, Culture, and Development Lab  
PI: Cristine Legare

**Lab Manager, Research Assistant** The George Washington University  
Oct, 2013 – June, 2014 Washington, DC  
Speech and Hearing Department  
LAB: Social Cognition Lab  
PI: Francys Subiaul

**Luther Rice Research Fellow** The George Washington University  
Sept, 2011 – June, 2013 Washington, DC  
Department of Psychology  
LAB: Attention and Cognition Lab  
PI: Sarah Shomstein

**Center for Visual Science Research Fellow** University of Rochester  
May, 2012 – Aug, 2012 Rochester, NY  
Center for Visual Science  
LAB: Huxlin Lab, Flaum Eye Institute  
PI: Krystel Huxlin

## FELLOWSHIPS AND AWARDS

- 2016–2021 Graduate Research Fellowship Program, National Science Foundation (#DGE-1321846)  
Total Award: \$138,000
- 2016 Provost PhD Fellowship, University of California, Irvine  
Total Award: \$20,000
- 2016 School of Social Sciences Merit Fellowship, University of California, Irvine  
Total Award: \$18,000
- 2016 Graduate Dean Recruitment Fellowship, University of California, Irvine  
Total Award: \$10,000
- 2013 3<sup>rd</sup> place, Social Science Division, George Washington University Research Days 2013  
Total Award: \$100
- 2012 Center for Visual Science Summer Research Fellowship, University of Rochester  
Total Award: \$3,600
- 2012–2013 Luther Rice Undergraduate Research Fellowship, George Washington University  
Total Award: \$5,000
- 2012 George Gamow Undergraduate Research Fellowship\*, George Washington University  
Total Award: \$2,500
- 2010 University and Alumni Award, George Washington University  
Total Award: \$1,000

\*Declined due to competing fellowship.

## PUBLICATIONS

**Etz, A.** (in press). Introduction to the concept of likelihood and its applications. *Advances in Methods and Practices in Psychological Science*. Preprint: <https://psyarxiv.com/85ywt>

Zwaan, R. A., **Etz, A.**, Lucas, R. E., Donnellan, M. B. (in press). Making replication mainstream. *Behavioral and Brain Sciences*. Preprint: <https://psyarxiv.com/4tg9c>

**Etz, A.**, Gronau, Q. F., Dablander, F., Edelsbrunner, P. A., Baribault, B. (in press). How to become a Bayesian in eight easy steps: An annotated reading list. *Psychonomic Bulletin & Review*. [dx.doi.org/10.3758/s13423-017-1317-5](https://doi.org/10.3758/s13423-017-1317-5). Open access preprint: <http://tinyurl.com/eightstepsV1>

**Etz, A.** & Vandekerckhove, J. (in press). Introduction to Bayesian inference for psychology. *Psychonomic Bulletin & Review*. [dx.doi.org/10.3758/s13423-017-1262-3](https://doi.org/10.3758/s13423-017-1262-3). Open access preprint: <https://osf.io/preprints/psyarxiv/q46q3>

Wagenmakers, E.-J., Love, J., Marsman, M., Jamil, T., Ly, A., Verhagen, J., Selker, R., Gronau, Q. F., Dropmann, D., Boutin, B., Meerhof, F., Knight, P., Raj, A., van Kesteren, E.-J., van Doorn, J., Smira, M., Epskamp, S., **Etz, A.**, Matzke, D., Rouder, J. N., Morey, R. D. (in press). Bayesian Inference for Psychology. Part II: Example Applications with JASP. *Psychonomic Bulletin & Review*. Open access: [dx.doi.org/10.3758/s13423-017-1323-7](https://doi.org/10.3758/s13423-017-1323-7)

Lakens, D. & **Etz, A.** (in press). Too True to be Bad: When Sets of Studies with Significant and Non-Significant Findings Are Probably True. *Social Psychological and Personality Science*. Open access: [dx.doi.org/10.1177/1948550617693058](https://doi.org/10.1177/1948550617693058)

**Etz, A.** & Wagenmakers, E.-J. (2017). J. B. S. Haldane's Contribution to the Bayes Factor Hypothesis Test. *Statistical Science* 32(2), 313-329. Open access: [dx.doi.org/10.1214/16-STS599](https://doi.org/10.1214/16-STS599)

**Etz, A.** & Vandekerckhove, J. (2016). A Bayesian perspective on the Reproducibility Project: Psychology. *PLoS ONE* 11(2): e0149794. Open access: [dx.doi.org/10.1371/journal.pone.0149794](https://doi.org/10.1371/journal.pone.0149794) Included in *PLoS Biology's* collection on meta-science: <http://collections.plos.org/meta-research/> Code at: [bbc.cidlab.com/](http://bbc.cidlab.com/)

Holcombe A. O., Brown N. J., Goodbourn P. T., **Etz A.**, Geukes S. (2016). Does sadness impair color perception? Flawed evidence and faulty methods. *F1000Research*. Open access: [dx.doi.org/10.12688/f1000research.9202.1](https://doi.org/10.12688/f1000research.9202.1)

Subiaul, F., Krajkowski, E., Price, E., & **Etz, A.** (2015). Imitation by combination: Preschool age children evidence summative imitation in a novel problem-solving task. *Frontiers in Psychology*, 6. Open access: [dx.doi.org/10.3389/fpsyg.2015.01410](https://doi.org/10.3389/fpsyg.2015.01410)

**Etz, A.** (2015). Using Bayes factors to get the most out of linear regression: A practical guide using R. *Winnower*. Available at: <http://tinyurl.com/BayesLinReg>

## WORKS SUBMITTED

Ly, A., **Etz, A.**, Marsman, M., Wagenmakers, E.-J. (submitted). Replication Bayes factors from Evidence Updating. Preprint: <https://psyarxiv.com/u8m2s/>

Ly, A., Raj, A., **Etz, A.**, Marsman, M., Wagenmakers, E.-J. (submitted). Bayesian Reanalyses from Summary Statistics: A Guide for Academic Consumers. Preprint: <https://osf.io/7dzmk/>

Saunders, B., Milyavskaya, M., **Etz, A.**, Randles, D., Inzlicht, M. (submitted). Reported self-control does not meaningfully assess the ability to override impulses. Preprint: <https://osf.io/bxfsu/>  
Supplementary materials and code: <https://osf.io/n5rmy/>

## WORKS IN PREPARATION

**Etz, A.** & Vandekerckhove, J. (in prep.) A Bayesian publication bias correction for random effects meta-analysis.

**Etz, A.**, Donnellan, M. B., Lucas, R. E., Zwaan, R. A. (in prep.). A review of methods for evaluating replication results.

**Etz, A.**, Bartlema, A., Vanpaemel, W., Morey, R., Wagenmakers, E.-J. (in prep.). Levels of evidence: An empirical exploration

**Etz, A.**, Rattinger, M., Byers, A., & Shomstein, S. (in prep.). Influences of Object Properties to Attentional Guidance.

## AD HOC REVIEWING

<i>Advances in Methods and Practices in Psychological Science</i>	<i>Journal of Media Psychology</i>
<i>Cortex</i>	<i>Perspectives on Psychological Science</i>
<i>Journal of Experimental Psychology: General</i>	<i>Psychonomic Bulletin and Review</i>
<i>Journal of Experimental Psychopathology</i>	<i>Review of General Psychology</i>
<i>Journal of Mathematical Psychology</i>	<i>Science</i>
	<i>Social Psychological and Personality Science</i>

## INVITED PRESENTATIONS

**Etz, A.** (2018, May). [Title tbd]. Invited speaker for the “What Bayesian inference can do for you” symposium at the annual meeting of the Association for Psychological Science (San Francisco, CA).

**Etz, A.** (2018, March). Getting started with Bayesian inference and analysis. Invited two-day workshop for the Famous Scholar workshop series at University of Groningen (Groningen, The Netherlands).

**Etz, A.** (2017, October). Moving forward using better statistical software. Invited presentation for the psychology department brown bag at The George Washington University (Washington, DC).

**Etz, A.** (2017, May). Foundations of Bayesian inference and analysis. Invited one-day workshop for the Psychology Statistics Club at University of Ottawa (Ottawa, Ontario, Canada). Materials: <https://osf.io/x28e3/> (in “Ottawa” folder)

**Etz, A.** (2017, January). Bayesian analysis with JASP: A fresh way of doing statistics. Invited “deep dive” workshop for the Society for Personality and Social Psychology conference (San Antonio, TX).

**Etz, A.** & Vandekerckhove, J. (2016, March). A Bayesian Perspective on the Reproducibility Project: Psychology. Invited presentation for the Department of Experimental Psychology “Cognitive Drinks” seminar at University College London (London, United Kingdom).

**Etz, A.** & Vandekerckhove, J. (2016, March). A Bayesian Perspective on the Reproducibility Project: Psychology. Invited special seminar for the Medical Research Council Integrative Epidemiology Unit at University of Bristol (Bristol, United Kingdom). Recording and slides available at: <http://tinyurl.com/BayesRPP>

**Etz, A.** (2016, March). Bayesian statistical concepts: A gentle introduction. Invited presentation at the inaugural Dutch 3TU H&T PhD workshop “Frequentist and Bayesian Statistics” at Eindhoven University of Technology (Eindhoven, The Netherlands).

**Etz, A.** (2016, March). Bayesian statistical concepts: A gentle introduction. Invited presentation for the Department of Psychology, Education and Child Studies (DPECS) at Erasmus University (Rotterdam, The Netherlands).

**Etz, A.** & Vandekerckhove, J. (2016, February). A Bayesian Perspective on the Reproducibility Project: Psychology. Invited presentation for the Department of Psychology at Ludwig-Maximilians-Universität München (Munich, Germany).

**Etz, A.** (2015, November). Bayesian statistical concepts: A gentle introduction. Invited presentation for the Department of Psycholinguistics at the University of Bielefeld (Bielefeld, Germany). Slides available from: <http://alexanderetz.com/2015/11/08/bayesian-statistical-concepts/>

## CONFERENCES

**Etz, A.** & Vandekerckhove, J. (2017). The debiasing gauntlet: Challenges for publication bias mitigation. Part of the “Improving use of statistical inference in science” symposium at the Annual Meeting of the Psychonomic Society (Vancouver, British Columbia, Canada).

**Etz, A.** & Vandekerckhove, J. (2017). A Bayesian Framework to Mitigate Publication Bias in Meta-Analyses. Poster to be presented at the Annual Meeting of the Society for Mathematical Psychology (Warwick, United Kingdom).

**Etz, A.** & Vandekerckhove, J. (2017). A Bayesian Framework to Mitigate Publication Bias in Meta-Analyses. Poster to be presented at the Annual Meeting of the Association for Psychological Science (Boston, MA).

**Etz, A.** & Vandekerckhove, J. (2016). A Bayesian Perspective on the Reproducibility Project: Psychology. Poster presented at the Annual Meeting of the Psychonomic Society (Boston, MA). Available at: <https://osf.io/r7n5x/>

**Etz, A.,** Marsman, M., Gronau, Q. F., Grasman, R. P. P., Wagenmakers, E.-J. (2016) Quantifying statistical support for causal claims: A case study on the possible fungal etiology of Alzheimer’s Disease. Paper presented at the Annual Meeting of the Society for Mathematical Psychology (New Brunswick, NJ).

**Etz, A.** & Vandekerckhove, J. (2016). A Bayesian Perspective on the Reproducibility Project: Psychology. Poster presented at the Annual Meeting of the Association for Psychological Science, (Chicago, IL).

Ly, A.(presenter), **Etz, A.**, Marsman, M., Gronau, Q., Epskamp, S., Matzke, D., Selker, R., Jamil, T., Wagenmakers, E.-J. (2016). Replication Bayes factors from JASP output. Paper presented at Tagung experimentell arbeitender Psychologen (TeaP; Heidelberg, Germany). Slides available from: <http://tinyurl.com/LyTeaP2016>

**Etz, A.** & Vandekerckhove, J.(presenter) (2016). A Bayesian Perspective on the Reproducibility Project: Psychology. Paper presented at The Australian Mathematical Psychology Conference.

**Etz, A.**, Rattinger, M., Byers, A., & Shomstein, S. (2013). Influences of Object Properties to Attentional Guidance. *Journal of Vision*, 13(9), 145-145. Poster presented at The Annual Meeting of the Vision Science Society (Naples, FL).

**Etz, A.**, Rattinger, M., Byers, A., & Shomstein, S. (2013). Influences of Object Properties to Attentional Guidance. Poster presented at GWU Undergraduate Research Days (Washington, DC). Awarded 3<sup>rd</sup> place in Social Science division.

## TEACHING

Guest lecture and quiz creation on the topic of likelihood (2017, September), for research masters class “Bayesian Inference for Psychological Science” at University of Amsterdam.

Teaching assistant at the one-week “Seventh Annual JAGS and WinBUGS Workshop: Bayesian Modeling for Cognitive Science” from August 21–25, 2017 at University of Amsterdam.

“A quick tour of some Bayesian things” (2017, March). Guest lecture for upper-level undergraduate class *Advanced Experimental Psychology* at University of California, Irvine.

Invited OSF Webinar: Introduction to JASP and OSF integration (2016, September). Available at: [https://youtu.be/B98FwY\\_frAw](https://youtu.be/B98FwY_frAw)

“Bayesian analysis in the context of the reproducibility crisis in psychology” (2016, January). Guest lecture for the upper-level undergraduate class *Introduction to Bayesian Statistics* at University of Amsterdam.

## PROFESSIONAL MEMBERSHIPS

Student member of the following:

- The American Statistical Association
- The Society for the Improvement of Psychological Science
- The Psychonomic Society
- The Association for Psychological Science
- The Society for Mathematical Psychology