

Curriculum Vita  
**JOSEPH HILGARD**

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## Education and Training

- 2017 – present      Assistant Professor, Industrial/Organizational-Social Psychology  
Department of Psychology  
Illinois State University
- 2015 – 2017      Drs. Gloria & Jack Chisum Postdoctoral Research Fellow  
Annenberg Public Policy Center  
University of Pennsylvania
- 2009 – 2015      Ph.D., Social and Personality Psychology  
Minor in Psychological Statistics and Methods  
Department of Psychological Sciences, University of Missouri  
Graduate advisor: Dr. Bruce D. Bartholow
- 2007 – 2009      Research assistant, functional brain imaging  
Department of Psychology, Washington University in St. Louis  
Supervisor: Dr. Todd Braver
- 2003 – 2007      B.A., Neuroscience and Russian Literature  
Dartmouth College

## Honors and Awards

Member of the executive committee, Society for the Improvement of Psychological Science  
Department nominee, Donald K. Anderson Graduate Teaching Award, 2015  
1<sup>st</sup> place Psychology poster award, Bond Life Sciences Week, 2011, 2012  
Bond Life Sciences Fellow, University of Missouri, 2009-2013

## Publications

- Hilgard, J.** (in press) Comment on Yoon and Vargas (2014): An implausibly large effect from implausibly invariant data. *Psychological Science*.
- Landrum, A. R., **Hilgard, J.**, Lull, R. B., Akin, H., & Hall Jamieson, K. (2018). Open and transparent research practices and public perceptions of the trustworthiness of agricultural biotechnology organizations. *Journal of Science Communication*. DOI: 10.22323/2.17020204
- Hilgard, J.**, and Hall Jamieson, K. (2017). Does a scientific breakthrough increase confidence in science? News of a Zika vaccine and trust in science. *Science Communication*, 39(4), 548-560. DOI: 10.1177/1075547017719075
- Engelhardt, C. R., Mazurek, M. O., & **Hilgard, J.** (2017). Pathological game use in adults with and without Autism Spectrum Disorder. *PeerJ*. DOI: [10.7717/peerj.3393](https://doi.org/10.7717/peerj.3393)

- Hilgard, J.,** Engelhardt, C. R., & Rouder, J. N. (2017). Overstated evidence for short-term effects of violent games on affect and behavior: A reanalysis of Anderson et al. (2010). *Psychological Bulletin*, 143(7), 757-774. DOI: 10.1037/bul0000074
- Hilgard, J.,** Engelhardt, C. R., Bartholow, B. D., & Rouder, J. (2017). How much evidence is  $p > .05$ ? Stimulus pre-testing and null primary outcomes in violent video games research. *Psychology of Popular Media Culture*, 6(4), 361-380. DOI: 10.1037/ppm0000102
- Hilgard, J.,** Engelhardt, C. R., & Bartholow, B. D. (2016). Brief use of a specific gun in a violent game does not affect attitudes towards that gun. *Royal Society Open Access*. DOI: 10.1098/rsos.160310
- Li, N., **Hilgard, J.,** Scheufele, D. A., Winneg, K. M., & Hall Jamieson, K. (2016). Cross-pressuring conservative Catholics? Effects of Pope Francis' encyclical on the U.S. public opinion of climate change. *Climatic Change*, 139(3-4), 367-380. DOI: 10.1007/s10584-016-1821-z
- Nilsson, G., **Hilgard, J.,** Arnberg, F. K., & Lekander, M. (2016). Effects of bias on the association between post-traumatic stress disorder and interleukin-6. *Lancet Psychiatry*, 3(3), 200-201. DOI: 10.1016/S2215-0366(16)00022-5
- Mazurek, M., Sohl, K., Engelhardt, C. R., & **Hilgard, J.** (2016). Bedtime Electronic Media Use and Sleep in Children with Autism Spectrum Disorder. *Journal of Developmental and Behavioral Pediatrics*, 37(7), 525-531. DOI: 10.1097/DBP.0000000000000314
- Fleming, K. A., Bartholow, B. D., **Hilgard, J.,** McCarthy, D. M., O'Neills, S. E., & Sher, K. J. (2016). The Alcohol Sensitivity Questionnaire: Evidence for construct validity. *Alcoholism: Clinical and Experimental Research*, 40(4), 880-888. DOI: 10.1111/acer.13015
- Lakens, D., **Hilgard, J.,** & Staaks, J. (2016). On the reproducibility of meta-analyses: Six practical recommendations. *BioMed Central*, 4(24). DOI: 10.1186/s40359-016-0126-3
- Engelhardt, C. R., Mazurek, M. O., **Hilgard, J.,** Rouder, J., & Bartholow, B. D. (2015). Effects of violent video game exposure on aggressive behavior, aggressive cognition, and aggressive affect among people with and without autism spectrum disorder. *Psychological Science*, 26, 1187-1200. DOI: 10.1177/0956797615583038
- Engelhardt, C. R., **Hilgard, J.,** & Bartholow, B. D. (2015). Acute exposure to difficult (but not violent) video games dysregulates cognitive control. *Computers in Human Behavior*, 45, 85-92. DOI:10.1016/j.chb.2014.11.089
- Hilgard, J.,** Bartholow, B. D., Dickter, C. L., & Blanton, H. (2015). Characterizing switching and congruency effects in the Implicit Association Test as reactive and proactive cognitive control. *Social Cognitive and Affective Neuroscience*, 10, 381-388. DOI: 10.1093/scan/nsu060
- Hilgard, J.,** Weinberg, A., Proudfit, G. H., & Bartholow, B. D. (2014). The negativity bias in affective picture processing depends on top-down and bottom-up motivational significance. *Emotion*, 14, 940-949. DOI: 10.1037/a0036791
- Hilgard, J.,** Engelhardt, C. R., & Bartholow, B. D. (2013) Individual differences in motives, preferences, and pathology in video games: The gaming attitudes, motives, and experiences scales (GAMES). *Frontiers in Psychology*, 4, 608. DOI: 10.3389/fpsyg.2013.00608
- Christ, S.E., Moffitt, A. J., Peck, D., White, D. A., & **Hilgard, J.** (2012). Disrupted functional brain connectivity in individuals with early-treated phenylketonuria: Evidence from resting state fMRI data. *Journal of Inherited Metabolic Disease*, 35, 807-816. DOI: 10.1007/s10545-011-9439-9

- Weinberg, A., **Hilgard, J.**, Bartholow, B. D., & Hajcak, G. (2012). Emotional targets: Evaluative categorization as a function of context and content. *International Journal of Psychophysiology*, 84, 149-154. DOI: 10.1016/j.ijpsycho.2012.01.023
- Jimura, K., Myerson, J., **Hilgard, J.**, Keighley, J., Braver, T. S., & Green, L. (2011). Domain independence and stability in young and older adults' discounting of delayed rewards. *Behavioral Processes*, 87 (3), 253-259. DOI: 10.1016/j.beproc.2011.04.006
- Jimura, K., Myerson, J., **Hilgard, J.**, Braver, T. S., & Green, L. (2009). Are people really more patient than other animals? Evidence from human discounting of real liquid rewards. *Psychonomic Bulletin & Review*, 16 (6), 1071-1075. DOI: 10.3758/PBR.16.6.1071

## Manuscripts submitted

- Carter, E. C., Schönbrodt, F. D., **Hilgard, J.**, & Gervais, W. M. (Invited resubmission, *AMPPS*). Correcting for bias in psychology: A comparison of meta-analytic methods. Preprint available at <https://osf.io/preprints/psyarxiv/9h3nu>. Cited 23 times pre-publication.
- Hilgard, J.**, Engelhardt, C. R., Rouder, J. N., Segert, I., & Bartholow, B. D. (Invited resubmission, *Psychological Science*). Null effects of game violence, game difficulty, and 2D:4D digit ratio on aggressive behavior. Preprint available at <https://github.com/Joe-Hilgard/vvg-2d4d/blob/master/manuscripts/ms.docx>
- Hales, A. H., Wesselmann, E. D., & **Hilgard, J.** (Invited resubmission, *Perspectives on Behavior Science*). Improving Psychological Science through Transparency and Openness: An Overview.
- Rouder, J.N., Haaf, J.M., Davis-Stober, C., & **Hilgard, J.** (Invited resubmission, *Psychological Methods*) Beyond overall effects: A Bayesian approach to finding constraints across a collection of studies in meta-analysis.
- Hilgard, J.**, Sala, G., Boot, W.R., & Simons, D.J. (In revision). Comment on Bediou et al. (2018): Overestimation of action-game training effects.
- Landy, J. F., Jia, M., Ding I. L., Viganola, D. Tierney, W., ..., **Hilgard, J.**, ..., Uhlmann, E. L. (Submitted) Crowdsourcing hypothesis tests: Making transparent how design choices shape research results.

## Book chapters

- Hilgard, J.**, & Hall Jamieson, K. (2017). Science as “broken” vs. science as “self-correcting”: How retractions and peer-review problems are exploited to attack science. In D. Scheufele, D. Kahan, & K. Hall Jamieson (Eds.) *The Oxford Handbook on the Science of Science Communication*. Oxford, UK: Oxford University Press.
- Hilgard, J.**, & Li, N. (2017). The science of communicating science: A synthesis. In D. Scheufele, D. Kahan, & K. Hall Jamieson (Eds.) *The Oxford Handbook on the Science of Science Communication*. Oxford, UK: Oxford University Press.
- Hilgard, J.** (2017). Identifying and overcoming challenges to science featured in attacks on science: A synthesis. In D. Scheufele, D. Kahan, & K. Hall Jamieson (Eds.) *The Oxford Handbook on the Science of Science Communication*. Oxford, UK: Oxford University Press.

## Informal publications

- Lueke, A.K., **Hilgard, J.**, Zimmerman, I., Bartholow, B.D., & Gibson, B. (Preprint). Heroic video game violence and prosocial behavior. Preprint available at <https://psyarxiv.com/nrfqt/>
- Hilgard, J. (2014). Hilgard's modified video game paradigm. <https://osf.io/3cb9m/>
- Hilgard, J. (2016). Video game violence and aggression: A proven connection? *Significance*, 13(5), 6-7. doi: 10.1111/j.1740-9713.2016.00955.x
- Hilgard, J. (2016). Comment on Strack (2016): The RRR is not contaminated by small-study effects. <http://crystalprisonzone.blogspot.com/2016/08/comment-on-strack-2016.html>
- Hilgard, J. (2016). Sick and tired of bias correction. <http://crystalprisonzone.blogspot.com/2016/02/sick-and-tired-of-bias-correction.html>
- Hilgard, J. (2016). A reading list for the replicability crisis. <http://crystalprisonzone.blogspot.com/2016/03/a-reading-list-for-replicability-crisis.html>
- Hilgard, J. (2015). Bayesian perspectives on publication bias. <http://crystalprisonzone.blogspot.com/2015/07/bayesian-perspectives-on-publication.html>
- Hilgard, J. (2015). Bayes factor: Asking the right questions. <http://crystalprisonzone.blogspot.com/2015/04/bayes-factor-asking-right-questions.html>

## Public scholarship

Quoted in the following articles:

- de Vrieze, J. (2018). Meta-analyses were supposed to end scientific debates. Often, they only cause more controversy. *Science*. <https://www.sciencemag.org/news/2018/09/meta-analyses-were-supposed-end-scientific-debates-often-they-only-cause-more>
- Resnick, B. (2018). The Stanford Prison Experiment was massively influential. We just learned it was a fraud. *Vox*. <https://www.vox.com/2018/6/13/17449118/stanford-prison-experiment-fraud-psychology-replication>
- Cressey, D. (2017). Tool for detecting publication bias goes under spotlight. *Nature*. <https://www.nature.com/news/tool-for-detecting-publication-bias-goes-under-spotlight-1.21728>
- Belluz, J., Plumer, B., & Resnick, B. (2016). The 7 biggest problems facing science, according to 270 scientists. *Vox*. <https://www.vox.com/2016/7/14/12016710/science-challenges-research-funding-peer-review-process>

## Research experience

2017 – present	Assistant professor, Illinois State University
2015 – 2017	Postdoctoral research fellow, University of Pennsylvania
2009 – 2015	Graduate student, University of Missouri - Columbia
2007 – 2009	Research assistant to Dr. Todd Braver and Dr. Deanna Barch, Washington University
2007	Undergraduate research assistant to Dylan Wagner, Dartmouth College

## Teaching experience

2017 – present	Assistant professor, Illinois State University Introduction to Psychology Introduction to Social Psychology Motivation Dynamics of Social Behavior
2015	Invited workshop on the use of Bayes factors, Northern Illinois University
2014	Instructor, Statistics (Research Methods II), Department of Psychological Sciences, University of Missouri
2014	Departmental workshop on the use of R package “ggplot2” for datavis
2013 – 2014	Instructor, Statistics (Graduate Statistical Software & Data Management), Department of Psychological Sciences, University of Missouri

## Funding

2015-2017	Drs. Gloria and Melvin “Jack” Chisum Research Fellowship
2013-2015	Teaching assistantship
2009-2013	Bond Life Sciences Fellowship

## Invited lectures

- You can't squeeze blood out of a turnip: Corrections for publication bias in meta-analysis. Guest lecture presented to the Department of Psychology at University of Illinois Urbana-Champaign.
- Understanding and addressing the replication crisis in social psychology. (2017, Sept). Guest lecture presented to PSYC 410 “Giving Psychology Away: Critical Thinking and Public Communication” at University of Louisville.
- Detection of, and adjustment for, bias in meta-analysis. (2017, Feb). Lecture presented to Topics in Current Economic Research at University of Hohenheim, Stuttgart, Germany.
- Bayesian hypothesis testing: The why and how. (2015, Dec). Lecture presented to the Bayesian Statistics Interest Group at Northern Illinois University.
- Developing new tools in video game research. (2014, Feb). Lecture presented to Psi Chi Society, University of Missouri.
- Do violent video games affect aggressive behavior? (2014, Oct). Lecture presented to Psychology 1000: General Psychology, University of Missouri.

## Symposia presented

- Hilgard, J.** (2018, June) Meta-analysis: Potential and pitfalls in addressing publication bias. Workshop conducted at the Society for the Improvement of Psychological Science annual meeting, Grand Rapids, Michigan.
- Vazire, S., and **Hilgard, J.** (2018, March). Correcting bias: What meta-analysis can and can't do. Roundtable discussion conducted at the Improving Psychological Science: Community Action Meeting, a preconference of the Society for Personality and Social Psychology, Atlanta, Georgia.
- Hilgard, J.** (2017, January). Overestimated effects of violent games. In R. McCarthy (chair), *Social cognition and aggressive behavior: Some ways in which thinking might be linked*

*to aggression*. Panel conducted at the meeting of the Society for Personality and Social Psychology, San Antonio, Texas.

**Hilgard, J.** (2016, June). Detection of, and adjustment for, bias in meta-analysis. Presentation to the Communication Research Methods preconference at the meeting of the International Communication Association, Fukuoka, Japan.

**Hilgard, J.,** Li, N., Scheufele, D. A., Winneg, K. M., & Hall Jamieson, K. (2016, June). Cross-Pressuring Conservative Catholics? The U.S. Public's Reaction to Pope Francis' Encyclical on Climate Change. In M. Skoric (chair), *Processing political and news information in an age of entertainment and overload*. Panel conducted at the meeting of the International Communication Association, Fukuoka, Japan.

**Hilgard, J. & Hall-Jamieson, K.** (2016, May). A novel, brief, and general approach to measuring media diet. In P. Pain (chair), *Media use and public opinion*. Panel conducted at the meeting of the World Association for Public Opinion Research, Austin, TX.

**Hilgard, J.,** Bartholow, B. D., Weinberg, A., & Hajcak, G. (2011, May). Reconsidering the negativity bias: An argument for motivated perception. In D. R. Herring & P. A. Gable (chairs), *Electrophysiological correlates of motivationally evaluative processes*. Symposium conducted at the meeting of the Society for the Study of Motivation, Washington, D.C.

### Posters presented \* denotes student co-author

**Hilgard, J., & Cody, O\*.** (2018). Publication bias impairs power to detect moderators across studies. Poster session presented at the annual meeting of the Society for Personality and Social Psychology, Atlanta, Georgia.

**Hilgard, J.,** Engelhardt, C. R., & Rouder, J. N. (2016). The overestimation of violent-game effects in experiments. Poster session presented at the annual meeting of the American Association for the Advancement of Science, Washington D. C.

**Hilgard, J.,** Engelhardt, C. R., & Bartholow, B. D. (2014). Effects of video game violence, game difficulty, and prenatal testosterone on aggressive behavior. Poster session presented at the annual meeting of the Society for Personality and Social Psychology, Long Beach, California.

**Hilgard, J.,** Engelhardt, C. R., Bartholow, B. D., & Segert, I. (2014). Digit ratio measures of prenatal testosterone exposure in predicting provoked aggression. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Atlanta, Georgia.

**Hilgard, J.,** Engelhardt, C. R., & Bartholow, B. D. (2013, 2014). Individual differences in motives, preferences, and pathology in video games: The risk of escapism and online relationships. Poster session presented at Bond Life Sciences Day, Columbia, Missouri and at the annual meeting of the Society for Personality and Social Psychology, Austin, Texas.

**Hilgard, J.,** Weinberg, A., Hajcak, G., & Bartholow, B. D. (2013). Does the negativity bias in affective picture processing depend on novelty? Poster session presented at the annual meeting of the Society for Psychophysiological Research, Rome, Italy.

**Hilgard, J.,** Kerns, J. D., & Bartholow, B. D. (2013). Alcohol placebo effects on cognitive control: Investigating neural mechanisms. Poster session presented at the annual meeting of the Society for Personality and Social Psychology, San Diego, California.

**Hilgard, J.,** Bartholow, B. D., Hajcak, G., & Weinberg, A. (2010, October). Rethinking the Negativity Bias: On the Importance of Qualitative Differences in Emotional Stimuli. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Portland, Oregon.

## Advising experience

Master's student independent study advisor, Olivia Cody, Spring 2018

Undergraduate Honors Thesis Advisor, James Cole, Fall 2013

## Editorial duties

Editorial board member, *Advances in Methods and Practices in Psychological Science*

## Ad-hoc reviewer

National Science Foundation – Decision, Risk, and Management Sciences

Psychological Science

Psychological Bulletin

Journal of Experimental Psychology: General

Journal of Experimental Social Psychology

Media Psychology

Biological Psychology

Neuroreport

PLoS One

Social Cognitive and Affective Neuroscience

Basic and Applied Social Psychology

Cyberpsychology: Journal of Psychosocial

Research on Cyberspace

Psychology of Popular Media Culture

Developmental Psychology

Journal of Mathematical Psychology

Frontiers

Cognitive, Affective, and Behavioral

Neuroscience

Journal of Individual Differences

Communication Methods and Measures

International Communication Association

Acta Psychologica

Journal of Media Psychology

Risk Analysis

European Psychologist

Interactive Learning Environments

Mass Communication and Society

Meta-Psychology

Open Psychology

Science Communication

I always sign my reviews.