

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
Department of Psychological Sciences, University of Missouri
Graduate adviser: Dr. Bruce D. Bartholow
- 2014 Minor in Psychological Statistics and Methods
- 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

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>.
- 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.

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.

Hilgard, J., Sala, G., Boot, W.R., & Simons, D.J. (In revision). Comment on Bediou et al. (2018): Overestimation of action-game training effects.

Rouder, J.N., Haaf, J.M., Davis-Stober, C., & **Hilgard, J.** (Submitted) Beyond overall effects: A Bayesian approach to finding constraints across a collection of studies in meta-analysis.

Hilgard, J., Scherer, L. D., Volpert, H. I., & Bartholow, B. D. (In revision). Understanding racial bias in the Weapons Identification Task in terms of implicit contrast effects.

Baker, S. G., **Hilgard, J.**, Patel, N., & Scherer, L. D. (In revision). The metacognitive advantage of correct responders over deliberative responders.

Huang, L., Sherman, J. W., Volpert, H.I., **Hilgard, J.**, & Bartholow, B. D. (In revision). Quad process modeling of recruited neurological activity in the Implicit Association Test.

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. To appear 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. To appear 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. To appear 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
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 data visualization
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

- 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.

Honors and Awards

2015	Department nominee, Donald K. Anderson Graduate Teaching Award
2012	1 st place Psychology poster award, Bond Life Sciences Week
2011	1 st place Psychology poster award, Bond Life Sciences Week
2009-2013	Bond Life Sciences Fellow, University of Missouri

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

Media Psychology
Biological Psychology
Neuroreport
PLoS One
Social Cognitive and Affective Neuroscience
Journal of Experimental Psychology: General
Journal of Experimental Social Psychology
Basic and Applied Social Psychology
Psychological Science
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
International Communication Association
Acta Psychologica
Journal of Media Psychology
Risk Analysis

I always sign my reviews.