Curriculum Vita

JOSEPH HILGARD

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| DeGarmo Hall | Lab: 309.438.3982 |
| Campus Box 4620 | Cell: 618.210.8530 |
| Illinois State University | Email: [jhilgard@gmail.com](mailto:jhilgard@gmail.com) |
| Normal, IL 61790-4620 | Open Science Foundation: <https://osf.io/pk8as/> |
|  | GitHub: <https://github.com/Joe-Hilgard> |

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,   
2018 – present

Nominee, Excellence Award for Outstanding Scholarly Achievement of the Year by a Pre-tenured Faculty Member, Illinois State University, College of Arts and Sciences, 2018

Department nominee, Donald K. Anderson Graduate Teaching Award,   
University of Missouri, 2015

1st place Psychology poster award, Bond Life Sciences Week,   
University of Missouri, 2011, 2012

Bond Life Sciences Fellow, University of Missouri, 2009-2013

Publications

**Hilgard, J.,** Sala, G., Boot, W.R., & Simons, D.J. (in press). Overestimation of action-game training effects: Publication bias and salami slicing. *Collabra.*

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

**Hilgard, J.** (2019) Comment on Yoon and Vargas (2014): An implausibly large effect from implausibly invariant data. *Psychological Science.* DOI: [10.1177/0956797618815434](https://doi.org/10.1177%2F0956797618815434)

Carter, E. C., Schönbrodt, F. D., Gervais, W. M., & **Hilgard, J.** (2019). Correcting for bias in psychology: A comparison of meta-analytic methods. *Advances in Methods and Practices in Psychological Science*, *2*(2), 115-144. DOI: [10.1177/2515245919847196](https://doi.org/10.1177%2F2515245919847196)

Hales, A. H., Wesselmann, E. D., & **Hilgard, J.** (2019). Improving Psychological Science through Transparency and Openness: An Overview. *Perspectives on Behavior Science,* 1-19*.* DOI: 10.1007/s40614-018-00186-8

**Hilgard, J.**, Engelhardt, C. R., Rouder, J. N., Segert, I., & Bartholow, B. D. (2019). Null effects of game violence, game difficulty, and 2D:4D digit ratio on aggressive behavior. *Psychological Science*, 30(4), 606-616. DOI: [10.1177/0956797619829688](https://doi.org/10.1177%2F0956797619829688)

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

Nilsonne, 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

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. (2019). Comment on Chang and Bushman (2019): Effects of outlier exclusion.

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). 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-challeges-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 – Aggression

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

How little we know about aggression: Insights from experiments, psychometrics, and meta-analysis. (2019, Jan). Guest lecture presented to the Department of Social Psychology at Northwestern University.

Adjusting for publication bias in meta-analysis: Advances, challenges, and the replication crisis. (2019, Jan). Guest lecture presented to the Department of Clinical Psychology at Northwestern University.

You can’t squeeze blood out of a turnip: Corrections for publication bias in meta-analysis. (2018, Feb) 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.** (2019, Feb) Choosing among bias adjustments with Bayes factors. In J. Haaf & **J. Hilgard** (chairs) … Society for Personality and Social Psychology, Portland, Oregon.

**Hilgard, J.** (2019, Feb) Meta-analysis: Open data & adjustments for publication bias. In J. Lodi-Smith (chair)… Society for Personality and Social Psychology, Portland, Oregon.

**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.

Corrections motivated by my work

Dear, K., Dutton, K., & Fox, E. (2019). Do ‘watching eyes’ influence antisocial behavior? A systematic review & meta-analysis. *Evolution and Human Behavior*, *40*(3), 269-280. With Niclas Kuper.

Benjamin Jr, A. J., Kepes, S., & Bushman, B. J. (2018). Effects of weapons on aggressive thoughts, angry feelings, hostile appraisals, and aggressive behavior: A meta-analytic review of the weapons effect literature. *Personality and social psychology review*, *22*(4), 347-377.

Hasan, Y., Bègue, L., Scharkow, M., & Bushman, B. J. (2013). The more you play, the more aggressive you become: A long-term experimental study of cumulative violent video game effects on hostile expectations and aggressive behavior. *Journal of Experimental Social Psychology*, *49*(2), 224-227.

Hasan, Y., Bègue, L., & Bushman, B. J. (2012). Viewing the world through “blood-red tinted glasses”: The hostile expectation bias mediates the link between violent video game exposure and aggression. *Journal of Experimental Social Psychology*, *48*(4), 953-956.

Greitemeyer, T., & Mügge, D. O. (2014). Video games do affect social outcomes: A meta-analytic review of the effects of violent and prosocial video game play. *Personality and social psychology bulletin*, *40*(5), 578-589.

Retractions motivated by my work

Çetin, Y., Wai, J., Altay, C., & Bushman, B. J. (2016). RETRACTED: Effects of violent media on verbal task performance in gifted and general cohort children. *Gifted Child Quarterly*, *60*(4), 279-286.

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* (2017 – present)

Editorial board member, *Social Psychological and Personality Science* (2019 – present)

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.