

Patrick R. Heck, Ph.D.

Curriculum Vitae

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EDUCATION

- Psychology – Ph.D.** 2017
Brown University Department of Cognitive, Linguistic, and Psychological Sciences
Advisor: Joachim I. Krueger
- Psychology – Sc.M.** 2013
Brown University Department of Cognitive, Linguistic, and Psychological Sciences
- Psychology – B.A.** 2010
Willamette University Department of Psychology – *Cum Laude*

EMPLOYMENT

- Geisinger Health System**
Staff Scientist Current
Postdoctoral Fellow 2018–2019
Principal investigators: Christopher Chabris and Michelle Meyer
Research topics: Psychology, decision-making, and behavioral science
- Brown University: Visiting Assistant Professor** 2017–2018
Department of Cognitive, Linguistic, and Psychological Sciences
- Connecticut College: Visiting Instructor** Spring, 2015
Department of Psychology

PEER-REVIEWED JOURNAL ARTICLES

* authors contributed equally; # mentored student co-author

- Heck, P.R., Watts, D., Chabris, C.F., & Meyer, M.N. (in press). Objecting to experiments even while approving of the policies or treatments they compare. *Proceedings of the National Academy of Sciences*. [[Preprint](#)].
- Heck, P.R., & Krueger, J.I. (In press). Self-enhancement error motivates social projection. *Social Cognition*. [[LINK](#)]
- Krueger, J.I., Heck, P.R., Evans, A.M., DiDonato, T. (2020). Social game theory: Choices, expectations, and perceptions. *European Review of Social Psychology*, 31, 222-253. <https://doi.org/10.1080/10463283.2020.1778249>. [[LINK](#)]
- Heck, P.R., & Meyer, M.N. (2019). Information avoidance in genetic health: Perceptions, norms, and preferences. *Social Cognition*, 37, 266-293, <https://doi.org/10.1521/soco.2019.37.3.266> (special issue on health). [[LINK](#)]
- Meyer, M.N., Heck, P.R., Holtzman, G.S., Anderson, S.A., Cai, W., Watts, D., Chabris, C.F. (2019). Reply to Mislavsky et al.: Sometimes people really are averse to experiments. *Proceedings of the National Academy of Sciences*. www.pnas.org/cgi/doi/10.1073/pnas.1914509116. [[LINK](#)]

Revised July 2020

- Meyer, M.N., **Heck, P.R.**, Holtzman, G.S., Anderson, S.A., Cai, W., Watts, D., Chabris, C.F. (2019). Objecting to experiments that compare two unobjectionable policies or treatments. *Proceedings of the National Academy of Sciences*, 116, 10723-10728. <https://doi.org/10.1073/pnas.1820701116> [LINK] [Financial Times] [Vox] [Bloomberg] [The Atlantic] [Harvard Business Review] [Nautilus] [You Are Not So Smart Podcast] [Marginal Revolution]
- Heck, P.R.**, & Meyer, M.N. (2019). Population whole exome screening: Primary care provider attitudes about preparedness, information avoidance, and nudging. *Medical Clinics*, 103, 1077-1092. <https://doi.org/10.1016/j.mcna.2019.08.004> [contact for reprint]
- Chabris, C.F., **Heck, P.R.**, Mandart, J., Benjamin, D.J., & Simons, D.J. (2019). No evidence that experiencing physical warmth promotes interpersonal warmth: Two failures to replicate Williams and Bargh (2008). *Social Psychology*, 50, 127-132. <https://doi.org/10.1027/1864-9335/a000361> [LINK] [BPS Research Digest] [Response by Bargh & Melnikoff]
- Krueger, J.I., **Heck, P.R.*** (2019). Putting the *p* value in its place. *The American Statistician*. 73:sup1, 122-128. doi: 10.1080/00031305.2018.1470033. [LINK]
- Heck, P.R.**, Simons, D.J., & Chabris, C.F. (2018). 65% of Americans believe they are above average in intelligence: Results of two nationally representative surveys. *PLoS ONE*. [LINK] [Wall Street Journal Essay] [Pacific Standard] [Bloomberg] [RealClearScience]
- Krueger, J.I., **Heck, P.R.**, & Wagner, D.# (2018). Egocentrism in the volunteer's dilemma. *American Journal of Psychology*. [LINK]
- Krueger, J.I., **Heck, P.R.*** (2018). Testing significance testing. *Collabra: Psychology*, 4, 11. <http://doi.org/10.1525/collabra.108> [LINK]
- Heck, P.R.**, & Krueger, J.I. (2017). Social perception in the volunteer's dilemma: Role of choice, outcome, and expectation. *Social Cognition*, 35, 497-519. <https://doi.org/10.1521/soco.2017.35.5.497> [LINK]
- Krueger, J.I., **Heck, P.R.**, & Asendorpf, J.B. (2017). Self-enhancement: Conceptualization and assessment. *Collabra: Psychology*. <http://doi.org/10.1525/collabra.91> [LINK]
- Krueger, J.I., & **Heck, P.R.*** (2017). The heuristic value of *p* in inductive statistical inference. *Frontiers in Psychology*, 8:908. doi: 10.3389/fpsyg.2017.00908 [LINK]
- Heck, P.R.**, & Krueger, J.I. (2016). Social perception of self-enhancement bias and error. *Social Psychology*, 47, 327-339. doi: 10.1027/1864-9335/a000287 [LINK] [Wall Street Journal] [Boston Globe] [Business Insider]
- Heck, P.R.**, & Krueger, J.I. (2015). Self-enhancement diminished. *Journal of Experimental Psychology: General*, 144, 1003-1020. <http://dx.doi.org/10.1037/xge0000105> [LINK]

OTHER PUBLICATIONS

- Krueger, J.I., **Heck, P.R.**, & Athenstaedt, U. (2018). The search for the self. In Nelson, T. (Ed.), *Getting grounded in social psychology*. New York: Taylor & Francis.

Heck, P.R., & Krueger, J.I. (2017). Rational healing. Review of 'Against empathy: The case for rational compassion' by Bloom, P. *American Journal of Psychology*, *130*, 523-526. doi: 10.5406/amerjpsyc.130.4.0523

Krueger, J.I., Evans, A. M., & **Heck, P.R.** (2017). Let me help you help me: Trust between profit and prosociality. In Van Lange, P. A. M., Rockenbach, B., & Yamagishi, T. (Eds.). *Trust in social dilemmas*. New York: Oxford University Press.

Heck, P.R., & Krueger, J.I. (2015). Happiness: A theory of relativity. Review of 'The myths of happiness' by Lyubomirsky, S. *American Journal of Psychology*, *128*, 126-128. doi: 10.5406/amerjpsyc.128.1.0125

MANUSCRIPTS UNDER REVIEW

Holtzman, G., **Heck, P.R.**, Anderson, S., Tang, S., & Gray, K. Moral judgments of deliberate ignorance. *Submitted as a Registered Report*.

MANUSCRIPTS IN PREPARATION

Heck, P.R., Simons, D.J., Benjamin, D.J., & Chabris, C.F. Persistent overconfidence despite years of regular feedback and objective information about skill.

Heck, P.R., & Meyer, M.N. People think nudges are more ethical after being nudged.

Krueger, J.I., Freestone, D., & **Heck, P.R.** The inductive reasoning model: Rationale and simulation. Visit <http://www.brown.edu/Departments/CLPS/research/irm-simulator> for the model testing and hypothesis generation interface written by Heck, P.R. & Freestone, D.

ACADEMIC AWARDS

2017 - Deans' Faculty Fellowship: Research and teaching fellowship at Brown University
2015 - Max Planck Research Group: Summer institute participant and travel award recipient
2015 - Peter D. Eimas Research Award: Brown University CLPS Department
2014 - Research and Mentorship Award: Brown University Sheridan Center for Teaching
2011 - Graduate Fellowship: Brown University CLPS Department
2010 - Paul M. Evans Award: Willamette University – for excellence in Psychology
2010 - Senior Certificate: Willamette University – awarded for institutional service
2009 - Summer Science Fellowship: American Psychological Association
2008 - Research Internship: Macquarie University Department of Cognitive Science

GRANT APPLICATIONS PREPARED

Meyer, M. N., **Heck, P. R.**, Buchanan, A., Curry Sturm, A., Rahm, A., & Schmidlen, T. (2018) Nudging cascade testing: Effectiveness and acceptability of a behavioral intervention to increase uptake of genomic counseling and testing for actionable variants by reducing information avoidance. Co-written and submitted with Meyer, M. N. Submitted as an R21 in 02/2018; revised and resubmitted as an R01 in 10/2018.

CONFERENCE PRESENTATIONS

Peer-Reviewed Conference Presentations

- Heck, P.R.**, Simons, D.J., Benjamin, D.J., & Chabris, C.F. (2019, November) *Does overconfidence persist despite precise and public information about skill? A study of tournament chess players.* Presented by Heck, P.R. at the annual meeting of the Society for Judgment and Decision-Making (SJDM), Montreal, QC.
- Heck, P.R.**, Simons, D.J., Benjamin, D.J., & Chabris, C.F. (2019, March) *Does overconfidence persist despite precise and public information about skill? A study of tournament chess players.* Presented by Heck, P.R. at the International Convention of Psychological Science (ICPS), Paris, FR.
- Meyer, M.N., **Heck, P.R.**, Holtzman, G.S., Anderson, S.A., Cai, W., Watts, D., Chabris, C.F. (2018, June). *The A/B illusion: Objecting to experimentally comparing two unobjectionable policies.* Presented by Chabris, C.F. at Behavioral Decision Research in Management, Cambridge, MA.
- Krueger, J.I., & **Heck, P.R.** (2017, October). *The heuristic value of p in inductive statistical inference.* Presented by Krueger, J.I. at the American Statistical Association (ASA) Symposium on Statistical Inference, Bethesda, MD.
- Krueger, J.I., & **Heck, P.R.** (2016, September). *Vicissitudes of self-enhancement.* Presented by Krueger, J.I. at the Society for Experimental Social Psychology (SESP), Santa Monica, CA.
- Krueger, J.I., Ullrich, J., & **Heck, P.R.** (2016, January). *Egocentrism and prosocial behavior in the volunteer's dilemma.* Presented by Heck, P.R. at the Society for Personality and Social Psychology (SPSP), San Diego, CA.
- Krueger, J.I., Freestone, D., & **Heck, P.R.** (2014, July). *Social projection in the inductive reasoning model.* Presented by Krueger, J.I. at the European Association for Social Psychology (EASP), Amsterdam, NL
- Peer-Reviewed Poster Presentations**
- Heck, P.R.**, Simons, D.J., Benjamin, D.J., & Chabris, C.F. (2019, February) *Does overconfidence persist despite precise and public information about skill? A study of tournament chess players.* Presented at the Society for Personality and Social Psychology (SPSP), and the Judgment and Decision Making (JDM) preconference, Portland, OR.
- Heck, P.R.**, & Meyer, M.N. (2018, July). *Judging deliberate ignorance in genetic testing.* Presented at the Society for Philosophy and Psychology (SPP), Ann Arbor, MI.
- Heck, P.R.** (2018, March). *Perceived prevalence and motivation in self-enhancement bias and error.* Presented at the Society for Personality and Social Psychology (SPSP) and at the Social Cognition preconference, Atlanta, GA.
- Heck, P.R.**, & Krueger, J.I. (2017, November). *Misery loves company when estimating bias and error in others.* Presented at the Society for Judgment and Decision Making (SJDM), Vancouver, BC.
- Heck, P.R.**, & Krueger, J.I. (2016, November). *Social perception and outcome bias in the volunteer's dilemma.* Presented at the Society for Judgment and Decision Making (SJDM), Boston, MA.

Heck, P.R., & Elia, J.# (2016, January). *Trust as a social norm: Observers ignore distrust but pay to reward trusting behavior*. Presented at the Society for Personality and Social Psychology (SPSP), San Diego, CA.

Heck, P.R., & Krueger, J.I. (2015, February). *Perceptions of morality and competence in genuine self-enhancement bias*. Presented at the Society for Personality and Social Psychology (SPSP), Long Beach, CA.

Heck, P.R., & Krueger, J.I. (2014, February). *Measuring true self-enhancement bias: a classification analysis*. Presented at the Society for Personality and Social Psychology (SPSP), Austin, TX.

Heck, P.R., & Krueger, J.I. (2013, January). *Measuring self-enhancement in the context of assessment ability and performance*. Presented at the Society for Personality and Social Psychology (SPSP), New Orleans, LA.

Brock, J., Johnson, B., Sowman, P., Calacouris, S., & **Heck, P.R.** (2010, April). A *magnetoencephalography (MEG) study of oscillatory brain responses to spoken words*. Presented at the Australasian Experimental Psychology Conference, Melbourne, VIC, Australia.

Robbins, R.A., & **Heck, P.R.** (2009, May). *Brad Pitt & Jude Law: Individual-contingent face aftereffects and norm- versus exemplar-based models of face-space*. Presented at Vision Sciences Society (VSS), Naples, FL.

INVITED PRESENTATIONS

Heck, P.R. (2018, December). *Confidence and overconfidence*. Presented at St. Mary's College of Maryland, St. Mary's City, MD.

Heck, P.R. (2018, March). *Confidence and overconfidence*. Presented at Hood College, Frederick, MD.

Heck, P.R. (2017, October). *Moral and social perceptions of deliberate ignorance in responding to self-relevant genomic information*. Presented at the Moral Psychology Research Group meeting at the Rock Ethics Institute, State College, PA.

Heck, P.R., & Meyer, M.N. (2017, October). *The role of deliberate ignorance in genomic decision-making for patients with returnable results*. Presented at the bi-annual meeting of the Electronic Medical Records and Genomics (eMERGE) Network at the National Human Genome Research Institute, Bethesda, MD.

Heck, P.R. (2017, August). *Confidence and overconfidence*. Presented at the Institute for Autism and Developmental Medicine, Geisinger Health System, Lewisburg, PA.

Krueger, J.I., & **Heck, P.R.** (2017, March). *The heuristic value of p in inductive statistical inference*. Presented by Krueger, J.I. at the Max Planck Institute for Adaptive Behavioral and Cognition.

Heck, P.R. (2016, March). *Prosociality and egocentrism in the volunteer's dilemma: Behavior, perception, and expectation/outcome effects*. Presented at the Social/Cognitive Science Brown Bag Speaker series at Brown University, Providence, RI.

Krueger, J.I., Ullrich, J., & Heck, P.R. (2016, February-March). *Egocentrism and prosocial behavior in the volunteer's dilemma*. Presented by Krueger, J.I. at Universities in Leuven, Potsdam, and Berlin.

Heck, P.R. (2014, October). *Measurement and perception of genuine self-enhancement bias*. Presented for Psychology Department Colloquium Series at Connecticut College, New London, CT.

Heck, P.R. (2013, November). *Measuring genuine self-enhancement bias*. Presented at the Social/Cognitive Science Brown Bag Speaker series at Brown University, Providence, RI.

Heck, P.R. (2013, August). *Measuring true self-enhancement bias: a classification analysis*. Presented at the Psychology department Colloquium Series at University of Graz, Austria.

Heck, P.R. (2009, April). *EEG and fMRI accounts of neural decoding in a motion recognition task*. Presented to the science directorate for the American Psychological Association, Washington, D.C.

POPULAR SCIENCE WRITING

"Getting along and getting ahead: How social motivations and uncertainty influence our judgments, decisions, and rationality." Active blog at *Psychology Today*. 2019–present. [[LINK](#)]

"You're not as smart as you think: Perils and benefits of overconfidence." *The Wall Street Journal*. Co-written with Christopher Chabris, 20 July 2018. [[LINK](#)]

"Bragging rights: when beating your own drum helps (or hurts)." *Aeon Magazine of Ideas and Culture*, 10 November 2016. [[LINK](#)]

SELECTED PRESS COVERAGE

"[The risk of harm and the greater good](#)." *Financial Times*, 26 June 2020.

"[Building a culture of experimentation](#)." *Harvard Business Review*, 1 March 2020.

"[A shocking share of the public thinks randomized trials are immoral](#)." *Vox*, 25 May 2019.

"[Now John Bargh's famous hot-coffee study has failed to replicate](#)." *British Psychological Society Research Digest*, 2 January 2019.

"[Americans stubbornly continue to overestimate their intelligence](#)." *Pacific Standard*, 27 July 2018.

"[65% of Americans think they are more intelligent than average](#)." *RealClearScience*, 5 July 2018.

"[People who boast about their IQ are losers](#)." *The Atlantic*, 11 October 2017.

"[When is it OK to brag?](#)" *The Wall Street Journal*, 5 December 2016.

"[Go ahead, brag. As long as you're actually good](#)." *Boston Globe*, 17 October 2016.

TEACHING EXPERIENCE

Courses Taught as Instructor of Record

<i>CLPS 1782: The Social Self</i> (Brown University)	Spring, 2017
<i>PSY 493E: Social Judgment and Decision Making</i> (Connecticut College)	Spring, 2015
<i>CEPY 0944: Game Theory in Social Decision-Making</i> (Brown University)	Summer, 2014

Teaching Assistantship (Brown University) 2012–2016

CLPS 2908 (Graduate): *Multivariate Statistics*
CLPS 0700 (two terms): *Social Psychology* (Lectures: Self-Enhancement; Egocentrism)
CLPS 1791 (Section leader): *Laboratory in Personality and Clinical Assessment*
CLPS 1790 (Section leader): *Laboratory in Social Cognition* (Lecture: Social Perception)
CLPS 0900 (two terms): *Quantitative Methods in Psychology* (Lectures: Linear Regression; Sampling Distributions; Variance & Covariance; Correlation Coefficients)

Certificates in Teaching

(The Sheridan Center for Teaching and Learning, Brown University)

Certificate V – Principles and Practice in Reflective Mentorship	2015
Certificate III – The Professional Development Seminar	2015
Certificate II – The Course Design Seminar: Principles and Practice	2014
Certificate I – Reflective Teaching	2013

Psychology Department Tutor

(Willamette University)

PSY 252/253 (four terms): *Research Methods and Statistics I & II*
PSY 210 (three terms): *Introduction to Psychology*

SERVICE

Ad Hoc Reviewer

(completed reviews in parentheses)

Psychological Review (1); *Journal of Personality and Social Psychology* (1); *Personality and Social Psychology Bulletin* (3); *The American Statistician* (2); *British Journal of Social Psychology* (1); *Social Psychological and Personality Science* (1); *Journal of Experimental Social Psychology* (3); *Social Cognition* (4); *Journal of Personality* (2); *Royal Society Open Science* (1 Registered Report); *Collabra: Psychology* (1); *European Journal of Personality* (1); *Meta-Psychology* (1); *Applied Cognitive Psychology* (1); *Consciousness and Cognition* (1); *Psychological Reports* (4); *PLoS One* (1); *Scandinavian Journal of Psychology* (1)

Volunteer Reviewer:

Society for Personality and Social Psychology: Single Presenter Submissions; Student Poster Awards
 Society for Judgment and Decision-Making: Student Poster Awards

Elected/Nominated Positions

Co-Organizer: Brown University Social/Cognitive Science Brown Bag series	2014–2016
Graduate Student Liaison to Brown University's Sheridan Center for Teaching	2013–2017
Brown University Graduate Student Department Representative to the Faculty	2012–2013

SKILLS & PROFICIENCIES

R (visualization, data analysis, simulation)
MATLAB (simulation, data analysis, experimental programming)
IBM Statistical Package for the Social Sciences (SPSS)
Open Science Framework (OSF)
Amazon Mechanical Turk crowdsourcing platform
TurkPrime & TurkGate Mechanical Turk screening and workflow software
Prolific
Pollfish
Qualtrics online survey platform
Limesurvey open-source survey platform
Microsoft Office Suite (Excel, Word, Powerpoint, Outlook)
Adobe Creative Cloud (Photoshop, Illustrator, Audition)
E-Prime experimental design software
Focus group research & free-response coding
Population weighting of survey data and large samples

REFERENCES

Christopher Chabris – Collaborator; Postdoctoral Advisor
Institute for Autism and Developmental Medicine, Geisinger Health System
120 Hamm Dr., Lewisburg, PA 17837
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Michelle Meyer – Collaborator; Postdoctoral Advisor
Center for Translational Bioethics and Health Care Policy, Geisinger Health System
100 N. Academy Ave, Danville, PA 17822
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Joachim Krueger – Collaborator; PhD Advisor
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Bertram Malle – Teaching Mentor; Dissertation Committee Member
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