

## HAYLEY M. DORFMAN, PHD

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[www.hayleydorfman.com](http://www.hayleydorfman.com)

### EMPLOYMENT

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Harvard University, Cambridge, MA 2019 - present  
Postdoctoral Fellow  
Advisor: Dr. Elizabeth Phelps

### EDUCATION

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Harvard University, Cambridge, MA 2014 - 2019  
Ph.D., Psychology  
Advisor: Dr. Samuel Gershman

Boston University, Boston, MA 2004 - 2008  
B.A., Psychology  
B.A., Political Science

### PUBLICATIONS

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Castillo J\*, Fan H\*, Karaman OT, Shu J, Stussi Y, Kredlow AM, Vranos S, Oyarzun JP, **Dorfman HM**, Sambrano D, Hirst W, Phelps EA. (submitted). Overestimating the intensity of negative emotion in autobiographical memory: evidence from the 9/11 attack and Covid-19 pandemic.

**Dorfman HM\***, Tomov MS\*, Cheung B, Clarke D, Gershman SJ\*, Hughes BL\*. (2021). Causal inferences gates corticostriatal learning. *Journal of Neuroscience*, 41(32), 6892-6904.

Cohen AO, Nussenbaum K, **Dorfman HM**, Gershman SJ, Hartley CA. (2020). The rational use of causal inference to guide reinforcement learning changes with age. *npj Science of Learning*, 5(1), 1-9.

**Dorfman HM**, Gershman SJ. (2019). Controllability governs the balance between Pavlovian and instrumental action selection. *Nature Communications*, 10(1), 1-8.

**Dorfman HM**, Bhui R, Hughes BL, & Gershman SJ. (2019). Causal inference about good and bad news. *Psychological Science*, 30(4), 516-525.

Tomov MS, **Dorfman HM**, & Gershman SJ. (2018). Neural computations underlying causal structure learning. *Journal of Neuroscience*, 38(32), 7143-7157.

Hosking JG, Kastman EK, **Dorfman HM**, Samanez-Larkin GR, Baskin Sommers A, Kiehl KA, Newman JP, Buckholz JW. (2017). Disrupted Prefrontal Regulation of Striatal Subjective Value Signals in Psychopathy. *Neuron*, 95(1), 221-231.

Rodman AM, Kastman EK, **Dorfman HM**, Baskin-Sommers A, Kiehl KA, Newman JP, Buckholtz JW. (2016). Selective Mapping of Psychopathy and Externalizing to Dissociable Circuits for Inhibitory Self-Control. *Clinical Psychological Science*, 4(3), 559-571.

**Dorfman HM**, Buckholtz JW. (2015). Imaging Genetics of Antisocial Behavior and Psychopathy. In: *Imaging Genetics: Principles and Practices*. Kristi Bigos, Ahmad Hariri and Daniel Weinberger (eds.). Oxford University Press. (Invited chapter).

**Dorfman HM**, Buckholtz JW. (2015). Social Behavior: A Penny for Your Shocks. *Current Biology*, 25(14), R600–R601. (Invited submission).

**Dorfman HM**, Buckholtz JW. (2015). Neurogenetics of Antisociality. In: *Handbook of Biosocial Criminology*. Matt DeLisi and Michael Vaughn (eds.). Routledge. (Invited chapter).

**Dorfman HM**, Meyer-Lindenberg A, Buckholtz JW. (2014). Neurobiological Mechanisms for Impulsive-Aggression: The Role of MAOA. In: *The Neuroscience of Aggression*. Andreas Meyer-Lindenberg and Klaus Miczek (eds.). Springer. 297-313. (Invited chapter).

## INVITED TALKS

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International Summer School in Affective Sciences Invited Keynote Speaker/Faculty Geneva, Switzerland	2022
Lerner Lab (PI: Jennifer Lerner) Harvard Kennedy School, Cambridge, MA	2022
Behavioural Control Seminar Donders Institute for Brain, Cognition, & Behaviour Radboud University, Netherlands	2021
Cognitive Neuroscience Colloquium Institute for Systems Neuroscience, University Medical Center Hamburg, Germany	2021
Social & Affective Neuroscience Society Annual Conference Brooklyn, NY	2018
New England Research in Decision-Making Annual Conference Cambridge, MA	2018
Brown University Cognition Seminar Brown University, Providence, RI	2018
Schiller Lab (PI: Daniela Schiller) Icahn School of Medicine, New York, NY	2018

Phelps Lab (PI: Elizabeth Phelps) NYU, New York, NY	2018
Delgado Lab (PI: Mauricio Delgado) Rutgers University, Newark, NJ	2018
Trends in Psychology Summit Cambridge, MA	2018
Morality Lab (PI: Liane Young) Boston College, Chestnut Hill, MA	2018
Women in Psychology Harvard-MIT Data Blitz Cambridge, MA	2018
Moral Psychology Research Lab (PI: Fiery Cushman) Harvard University, Cambridge, MA	2018
Harvard Intergroup Neuroscience Lab (PI: Mina Cikara) Harvard University, Cambridge, MA	2016
Boston Area Moral Psychology Group Cambridge, MA	2016

## CONFERENCE PRESENTATIONS

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Bhui R\*, **Dorfman HM\***, Gershman SJ. Ambiguity and confirmation bias in reward learning. Psychonomic Society Annual Meeting, 2022. Boston, MA.

Fan H\*, Castillo J\*, Karaman OT, Shu J, Stussi Y, Kredlow MA, Vranos S, Oyarzun JP, **Dorfman HM**, Sambrano D, Phelps EA. Overestimating stress experienced early during the pandemic is associated with decreased emotional well-being. Association of Behavioral and Cognitive Therapies Annual Conference, 2022. New York, NY. [Symposium talk].

Rodman AM, **Dorfman HM**, Powers KE, Gershman SJ, Somerville LH. Neural feedback signals differentially guide impression updating of self and others across development. Flux Congress, 2022. Paris, France.

Bhui R\*, **Dorfman HM\***, Gershman SJ. Ambiguity and confirmation bias in reward learning. Reinforcement Learning and Decision Making Conference, 2022. Providence, RI.

Castillo J\*, Fan H\*, Karaman OT, Shu J, Stussi Y, Kredlow MA, Vranos S, Oyarzun JP, **Dorfman HM**, Sambrano D, Phelps EA. Overestimating stress experienced early during the pandemic is associated with decreased emotional well-being. Social and Affective Neuroscience Society Annual Conference, 2022. Virtual.

Nussenbaum K, Cohen AO, **Dorfman HM**, Shen X, Sardar H, Valencia D, Glover M, Gershman SJ, Hartley CA. Developmental change in the use of causal inference to guide reinforcement learning. Reinforcement Learning and Decision Making Conference, 2019. Montreal, Canada.

Cohen AO, Nussenbaum K, **Dorfman HM**, Shen X, Sardar H, Valencia D, Glover M, Gershman SJ, Hartley CA. Age-related change in the effects of causal judgments on learning from reinforcement. Social and Affective Neuroscience Society Annual Conference, 2019. Miami, FL.

Jaroszewski AC, Millner A, **Dorfman HM**, & Nock MK. Suicidal Participants Demonstrate Decreased Inhibitory Control in Relation to Suicide-Related Information: A Pilot Study. Society for Research in Psychopathology, 2017. Denver, CO.

**Dorfman HM**, Patzelt EH, Prater-Fahey M, Buckholtz JW. The Cost of Aggression: Predicting Behavior Using a Value-Based Discounting Model. Society for Neuroscience Annual Conference, 2016. San Diego, CA.

Hosking JG, Kastman EK, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Prefrontal Regulation of Striatal Value Signals is Disrupted in Psychopathy. Harvard Center for Brain Science Research Symposium, 2015. Cambridge, MA.

Hosking JG, Kastman EK, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Prefrontal Regulation of Striatal Value Signals is Disrupted in Psychopathy. Society for Neuroscience Annual Meeting (Nanosymposium), 2015. Washington, D.C.

Patzelt E, Kastman EK, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Impulsive Choice Behavior Predicts Exaggerated Reinforcement Learning Signals within Corticostriatal Circuitry. Social and Affective Neuroscience Society Annual Meeting, 2015. Boston, MA.

Buckholtz JW, Kastman EK, **Dorfman HM**, Newman JP, and Kiehl KK. The Value of Psychopathy: Aberrant Computation of Subjective Value During Intertemporal Choice in Incarcerated Males with Psychopathy. American Psychology Law Society, 2014.

**Dorfman HM**, Kastman E, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Corticostriatal Structural Differences Dissociate Impulsive-Antisocial Behavior from Psychopathy. Cognitive Neuroscience Society, 2014. Boston, MA.

Kastman E, Patzelt E, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Striatal Hypersensitivity to Immediate Reward Drives Self-Control Deficits in Psychopathy. Cognitive Neuroscience Society Annual Meeting, 2014. Boston, MA.

Patzelt E, Kastman E, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Corticolimbic Circuit Dysfunction Drives Reinforcement Learning Deficits in Incarcerated Antisocial Offenders. Cognitive Neuroscience Society Annual Meeting, 2014. Boston, MA.

**Dorfman HM**, Kastman E, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Parsing self-control in incarcerated criminals: Impulsive-antisocial behavior tracks variability in corticostriatal circuit structure. Society for Neuroscience Annual Meeting, 2013. San Diego, CA.

Kastman E, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Parsing Self-Control in Incarcerated Criminals: Aberrant Striatal Function Underlies Biased Assignment of Subjective Value to Immediate Rewards in Psychopathic Offenders. Society for Neuroscience Annual Meeting, 2013. San Diego, CA.

Millner AJ, **Dorfman HM**, Kastman E, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Parsing self-control in incarcerated criminals: Aggression and impulsive-antisocial behavior track variability in reward-related corticostriatal circuit function. Society for Neuroscience Annual Meeting, 2013. San Diego, CA.

Buckholtz JW, Kastman E, **Dorfman HM**. Biased input regulation of striatal reactivity comprises a circuit-level mechanism for human self-control. Society for Neuroscience Annual Meeting, 2013. San Diego, CA.

Rodman AM, Kastman E, **Dorfman HM**, Baskin-Sommers A, Kiehl KK, Newman JP, Buckholtz JW. Parsing Self-Control in Incarcerated Criminals: Selective Mapping of Psychopathy and Externalizing to Functional Circuits for Response Inhibition and Interference Suppression. Society for Neuroscience Annual Meeting, 2013. San Diego, CA.

Buckholtz JW, Kastman E, **Dorfman HM**, Kiehl KK, Newman JP. Incarcerated Psychopaths Overvalue Immediate Rewards During Decision-Making. Society for Affective Neuroscience Annual Meeting, 2013. San Diego, CA.

## TEACHING & MENTORING

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- Mentor Fall, 2022  
Prospective PhD & RA Event in Psychology (PPREP)
- Instructor Fall, 2021  
PSY971: Contemporary Issues in Psychology
- Mentor Fall, 2021  
Prospective PhD & RA Event in Psychology (PPREP)
- Postdoctoral Mentor Fall, 2020  
Fellowship of Research Staff at Harvard (FRESH)
- Mentor Fall, 2020  
Prospective PhD & RA Event in Psychology (PPREP)
- Member Spring, 2020  
Harvard Psychology Peer Mentorship Coalition
- Grader, Harvard University Fall, 2019  
PSY1702: The Emotional Mind (Leah Somerville)
- Peer Mentor Summ, 2018  
Summer Research Opportunity Intern Program

- Grader, Harvard University Fall, 2018  
PSY1702: The Emotional Mind (Leah Somerville)
- Head Teaching Fellow, Harvard University Spring, 2018  
PSY15: Social Psychology (Fiery Cushman)
- Teaching Fellow, Harvard University Fall, 2017  
PSY1900: Introduction to Statistics for the Behavioral Sciences (Patrick Mair)
- Tutor, Harvard University Bureau of Study Council Fall, 2017
- Teaching Fellow, Harvard University Fall, 2016  
PSY15: Social Psychology (Fiery Cushman)
- Undergraduate Research Assistant advisor  
Students supervised: Ecem Sena Uluegeci (currently: undergraduate, Harvard College), Bryan Dong (currently: research assistant, Harvard), Nayleth Lopez-Lopez (currently: undergraduate, Harvard College), Ann Carroll\* (currently: PhD student, Northwestern), Lauren DiNicola\* (currently: Postdoc, Harvard), Mahalia Prater-Fahey (currently: PhD student: Brown), Malte Zopfs\* (currently: medical student, Central Institute for Mental Health, Mannheim, Germany) *\*honors thesis student*

## FELLOWSHIPS & AWARDS

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- National Science Foundation SBE Postdoctoral Research Fellowship 2021-2023
- George W. Goethals Award for Excellence in Teaching 2021
- Graduate School of Arts & Sciences Dissertation Completion Fellowship 2018
- Derek Bok Center Excellence in Teaching Award 2016
- Sackler Scholar Programme in Psychobiology Stipend Award 2016

## RESEARCH FUNDING

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- Mind, Brain, & Behavior Young Investigator Award, \$5,000 2020
- Norman Anderson Fund Research Grant, Harvard University, \$3,500 2017
- Restricted Funds Travel Grant, Harvard University, \$500 2017
- Restricted Funds Travel Grant, Harvard University, \$500 2016
- Stimson Fund Research Grant, Harvard University, \$1,000 2015

## PROFESSIONAL SERVICE

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### Committee Member

Harvard University Psychology Mentorship Committee  
Cambridge, MA

### Co-founder, former President, Advisory Board Member

Harvard University Women in Psychology (WiP)  
Cambridge, MA

<https://women.psychology.harvard.edu/>

## Committee Member

Harvard University Psychology Climate Committee  
Cambridge, MA

## Ad-Hoc Reviewer

- Neuroscience & Biobehavioral Reviews
- Cognitive Science Society
- JAMA Psychiatry
- Cerebral Cortex
- Social Cognitive and Affective Neuroscience
- Psychiatric Genetics
- Neuroimage Clinical
- Translational Psychiatry
- Journal of Cognitive Neuroscience
- Psychological Science
- Journal of Experiment Psychology: General
- Cognition
- Psychological Review
- Frontiers in Psychology
- Motivation and Emotion

## PROFESSIONAL AFFILIATIONS

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- Society for Neuroscience
- Cognitive Neuroscience Society
- Reinforcement Learning & Decision Making
- Society for Neuroeconomics
- American Psychological Association
- Association for Psychological Science
- Social and Affective Neuroscience Society
- Sigma Delta Epsilon (Graduate Women in Science)
- Society for Research in Psychopathology