## EMPLOYMENT

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

## EDUCATION

| 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

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. https://psyarxiv.com/xw6rf/.

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, Buckholtz 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 SelfControl. 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 ImpulsiveAggression: The Role of MAOA. In: The Neuroscience of Aggression. Andreas Meyer-Lindenberg and Klaus Miczek (eds.). Springer. 297-313. (Invited chapter).

## MANUSCRIPTS IN PREPARATION

Dorfman HM, Dong B, McLaughlin K, Phelps EA. (in prep). Exposure to early-life adversity modulates beliefs about agency and reinforcement learning.

Dorfman HM, Karaman OT, Phelps EA. (in prep). Negative mood does not influence foraging behavior.
Dorfman $\mathbf{H M}^{\star}$, Bhui $\mathrm{R}^{\star}$. (in prep). Bayesian inference over valence ambiguity in reward learning leads to confirmation bias.

## PRE-REGISTRATIONS

Early-life adversity and agency-modulated reinforcement learning (https://osf.io/bt74x) Impact of mood on foraging decisions (https://osf.io/bgpyn)

## INVITED TALKS

International Summer School in Affective Sciences
Invited Keynote Speaker/Faculty
University of Geneva, Switzerland
Lerner Lab (PI: Jennifer Lerner)
2022
Harvard Kennedy School, Cambridge, MA
Behavioural Control Seminar
2021
Donders Institute for Brain, Cognition, \& Behaviour
Radboud University, Netherlands
Cognitive Neuroscience Colloquium
Institute for Systems Neuroscience, University Medical Center
Social \& Affective Neuroscience Society Annual Conference ..... 2018
Brooklyn, NY
New England Research in Decision-Making Annual Conference ..... 2018
Cambridge, MA
Brown University Cognition Seminar ..... 2018
Brown University, Providence, RI
Schiller Lab (PI: Daniela Schiller) ..... 2018
Icahn School of Medicine, New York, NY
Phelps Lab (PI: Elizabeth Phelps) ..... 2018
NYU, New York, NY
Delgado Lab (PI: Mauricio Delgado) ..... 2018
Rutgers University, Newark, NJ
Trends in Psychology Summit ..... 2018
Cambridge, MA
Morality Lab (PI: Liane Young) ..... 2018
Boston College, Chestnut Hill, MA
Women in Psychology Harvard-MIT Data Blitz ..... 2018
Cambridge, MA
Moral Psychology Research Lab (PI: Fiery Cushman) ..... 2018
Harvard University, Cambridge, MA
Harvard Intergroup Neuroscience Lab (Pl: Mina Cikara) ..... 2016Harvard University, Cambridge, MA
Boston Area Moral Psychology Group ..... 2016Cambridge, MA
CONFERENCE PRESENTATIONS

Dorfman $\mathbf{H M}^{\star}$, Bhui $R^{\star}$. Ambiguity and confirmation bias in reward learning. Society for Neuroeconomics Annual Meeting, 2023. Vancouver, Canada.

Fan H, Dong B, Benkelman, D, Rodman AM, Dorfman HM, Glimcher, P, Phelps EA. Bidding with Effort: Using Grip Force to Assess the Value of Information. Society for Neuroeconomics Annual Meeting, 2023. Vancouver, Canada.

Dorfman HM, Dong B, McLaughlin KA, Phelps EA. Early-life adversity influences agency-modulated reinforcement learning. Computational Psychiatry Conference, 2023. Dublin, Ireland.

Dorfman HM. Neurocomputational accounts of agency. Cognitive Neuroscience Society Annual Meeting, 2023. San Francisco, CA. [Symposium talk].

Bhui R*, Dorfman HM*, Gershman SJ. Ambiguity and confirmation bias in reward learning. Society for Mathematical Psychology Preconference, 2022. Boston, MA.

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 selfcontrol 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 SelfControl 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.

## FELLOWSHIPS \& AWARDS

- ORISE Intelligence Community Postdoctoral Research Fellowship, \$174,000

2023-2025

- National Science Foundation SBE Postdoctoral Research Fellowship, \$138,000

2021-2023

- George W. Goethals Award for Excellence in Teaching 2021
- Graduate School of Arts \& Sciences Dissertation Completion Fellowship, \$36,472 2018
- Derek Bok Center Excellence in Teaching Award 2016
- Sackler Scholar Programme in Psychobiology Stipend Award, \$14,000 2016


## RESEARCH FUNDING

- William A. Talley Research Innovation Fund, \$40,000
- 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


## TEACHING \& MENTORING

- 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

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: Grace Benkelman*** (currently: undergraduate, Harvard College), Emily Dial** (currently: undergraduate, Harvard College), 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 **Harvard College Program for Research in Science \& Engineering student ***Harvard College Build Learning through Inquiry in the Social Sciences student

## PROFESSIONAL SERVICE

## 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

- Computational Psychiatry
- 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

