

Jennifer L. Crawford

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Current Position

Graduate Student, Cognitive Control & Psychopathology Lab 2017-present
Advisor: Todd Braver

Education

B.S., Neuroscience, Brandeis University (*Highest Honors*) 2015
M.A., Psychological & Brain Sciences, Washington University 2019

Previous Research Positions

Research Assistant, Brandeis University (PI: Angela Gutchess) 2012-2015
Research Assistant, Yale University (PI: Gregory Samanez-Larkin) 2015-2017

Awards & Honors

Joel Friedland '76 Endowed Scholarship 2014
Provost's Undergraduate Research Fund Summer Research Fellowship 2014
Brandeis Undergraduate Research Fund Conference Travel Grant 2015
Aging & Development Training Fellowship (T32) 2018-2021
Sallie P. Asche Travel Award, Dallas Aging & Cognition Conference 2019
Summer School in Social Neuroscience and Neuroeconomics, Fellow 2019
Cognitive, Computational, & Systems Neuroscience Training Fellowship (T32) 2021-2022
Outstanding Teaching Assistant Award (WUSTL Psychological & Brain Sciences) 2021
Dissertation Research Award (WUSTL Psychological & Brain Sciences) 2021
Sallie P. Asche Travel Award, Dallas Aging & Cognition Conference 2022
Kavli Summer Institute in Cognitive Neuroscience, Fellow 2022

Research Support

Crawford (PI) 6/1/2019–3/31/2022
Cognitive effort and aging. Pilot project examining the role of cognitive motivation in older adulthood using a combination of neuroimaging, behavioral, and experience sampling techniques.
Role: Subaward PI (on R24-AG054355)
Direct Costs: \$30,000

Publications

Crawford, J. L., Eisenstein, S. A., Peelle, J. E. & Braver, T. S. (2022). Domain-general cognitive motivation: Evidence from economic decision-making – Final Registered Report. *Cognitive Research: Principles and Implications*, 7(1), 23.

Crawford, J.L., English, T., & Braver, T.S. (2022). Incorporating Ecological Momentary Assessment into multimethod investigations of cognitive aging: Promise and practical considerations. *Psychology and Aging*, 37(1), 84–96.

Yee, D.M., **Crawford, J.L.**, Lamichhane, B., & Braver, T.S. (2021). Dorsal anterior cingulate cortex encodes the subjective motivational value of cognitive task performance. *Journal of Neuroscience*, 41(16), 3707-3720.

Crawford, J.L., Yee, D.M., Hallenbeck, H.W., Naumann, A., Shapiro, K., Thompson, R.J., & Braver, T.S. (2020). Dissociable effects of monetary, liquid, and social incentives on motivation and cognitive control. *Frontiers in Cognition*, 11, 2212.

Smith, C.T., **Crawford, J.L.**, Dang, L.C., Seaman, K.L., San Juan, M.D., Vijay, A., Katz, D.T., Matuskey, D., Cowan, R.L., Morris, E.D., Zald, D.H., & Samanez-Larkin, G.R. (2019). Partial volume correction increases estimated dopamine D2-like receptor binding potential and reduces adult age differences. *Journal of Cerebral Blood Flow & Metabolism*, 39(5), 822–833.

Castrellon, J. J., Seaman, K. L., **Crawford, J. L.**, Young, J. S., Smith, C. T., Dang, L. C., et al. (2019). Individual differences in dopamine are associated with reward discounting in clinical groups but not in healthy adults. *Journal of Neuroscience*, 39(2), 321.

Juarez, E.J., Castrellon, J.J., Green, M.A., **Crawford, J.L.**, Seaman, K.L., Smith, C.T., Dang, L.C., Zald, D.H., & Samanez-Larkin, G.R. (2019). Reproducibility of the correlative triad among aging, dopamine receptor availability, and cognition. *Psychology and Aging*, 34(7), 921–932.

Manuscripts Under Review/In Revision

Green, M.A., Seaman, K.L., **Crawford, J.L.**, Kuhn, C.M., & Samanez-Larkin, G.R. Multivariate associations between dopamine receptor availability and risky investment decision making across adulthood.

Aschenbrenner, A.J. **Crawford, J.L.**, Peelle, J.E., Fagan, A.M., Benzinger, T.L.S., Morris, J.C., Hassenstab, J., & Braver, T.S. Increased cognitive effort costs in healthy aging and preclinical Alzheimer's Disease.

Crawford, J.L., English, T. & Braver, T.S. Cognitive effort-based decision-making across experimental and daily life indices in younger and older adults.

Yee, D.M., **Crawford, J.L.**, & Braver, T.S. Juicy research: a fMRI protocol for administering liquid incentives to human participants.

Manuscripts In Prep

Crawford, J.L., Yee, D.M., Lamichhane, B., Di Rosa, E., & Braver, T.S. Neural mechanisms of motivated cognitive control in older adults.

Invited Talks

International

Crawford, J.L. & Braver, T.S. (2021). Domain general cognitive motivation and economic decision-making: A registered report. A Bunch of Control Datablitzes (ABCD) (virtual).

Crawford, J.L. & Braver, T.S. (2020). Aging and the costs of cognitive effort. Scientific Research Network on Decision Neuroscience & Aging Conference, Honolulu, HI.

Local

Crawford, J.L. & Braver, T.S. (2022). Does the cost of cognitive effort differ among younger and older adults? A multimethod approach. Cognitive, Computational, and Systems Neuroscience Annual Retreat.

Crawford, J.L., English, T. & Braver, T.S. (2022). Examining cognitive effort costs across experimental and daily life indices in younger and older adults. Washington University Aging & Development Brown Bag.

Crawford, J.L., Eisenstein, S.A., Peelle, J.E., Braver, T.S. (2020). Aging and the costs of cognitive effort. Washington University Alzheimer's Disease Research Center (virtual).

Crawford, J.L. & McLaughlin, D.J. (2020). Using cognitive effort discounting paradigms to examine subjective listening effort and relationships to effortful experiences of daily life in older adults. Washington University Behavior, Brain, and Cognition Brown Bag.

Poster Presentations

Crawford, J.L., English, T. & Braver, T.S. (2022). Effects of gain and loss incentive framing on cognitive effort-based decision-making in younger and older adults: A multimethod approach. Cognitive Aging Conference, Atlanta, GA.

Crawford, J.L., Peelle, J.E., & Braver, T.S. (2022). Does the cost of cognitive effort differ among younger and older adults? A multimethod approach. Dallas Aging & Cognition Conference, Dallas, TX. [canceled because of COVID-19]

Crawford, J.L., English, T. & Braver, T.S. (2021). Combining experimental and daily life sampling approaches in aging research: opportunities and challenges. Society for Ambulatory Assessment Conference (virtual).

Crawford, J.L., Yee, D.M., Lamichhane, B., Di Rosa, E., & Braver, T.S. (2020). Neural Mechanisms of Motivated Cognitive Control in Older Adults. Organization for Human Brain Mapping Conference (virtual).

Moore, I.L., Fields, E.C., **Crawford, J.L.**, Paige, L.E., Cassidy, B.S., & Gutchess, A. (2020). Attentional Prioritization of Negative Appearance-Behavior Cues in Impression Formation. Cognitive Neuroscience Society Conference, Boston, MA (virtual).

Johnson, C.P., Castrellon, J.J., **Crawford, J.L.**, & Samanez-Larkin, G.R. (2019). I like it like that: reward discounting and appetitive responses to amphetamine in a drug naïve sample of healthy adults. Interdisciplinary Symposium on Decision Neuroscience, Durham NC.

Crawford, J.L., Yee, D.M., & Braver, T.S. (2019). Age-related changes in motivational integration involving socio-emotional incentives. Dallas Aging & Cognition Conference, Dallas, TX.

Juarez, E.J., Castrellon, J.J., **Crawford, J.L.**, Green, M.A., McAllister, G.A., Seaman, K.L., Smith, C.T., Dang, L.C., Zald, D.H., & Samanez-Larkin, G.R. (2018). Reliability of the correlative triad among aging, dopamine, and cognition. Cognitive Neuroscience Society Conference, Boston, MA & Cognitive Aging Conference, Atlanta, GA.

Zhang, Z., Saez, I., **Crawford, J.L.**, Seaman, K.L., Samanez-Larkin, G.R., Hsu, M., & Kayser, A. (2017). Dopamine, prefrontal cortex, and strategic learning. Society for Neuroscience Annual Meeting, Washington D.C.

McAllister, G.A., Castrellon, J.J., Seaman, K.L., **Crawford, J.L.**, Blow, T., Smith, C.T., Dang, L.C., Hsu, M., Zald, D.H., & Samanez-Larkin, G.R. (2017). Individual differences in dopamine receptor availability are not associated with preferences for time, probability, or effort across adulthood. Society for Neuroeconomics Annual Meeting, Toronto, Canada.

Crawford, J.L., Seaman, K.L., Vijay, A., Matuskey, D., Morris, E.D., & Samanez-Larkin, G.R. (2017). Effects of age on extrastriatal dopamine D2 receptor availability are overestimated without partial volume correction. Dallas Aging and Cognition Conference, Dallas, TX & Cognitive Neuroscience Society Conference, San Francisco, CA.

Vijay, A., **Crawford, J.L.**, Seaman, K.L., Morris, E.D., & Samanez-Larkin, G.R. (2016). Decreased extrastriatal dopamine D2 receptor availability over human adulthood using [11C]-FLB457. International Symposium on Functional NeuroReceptor Mapping of the Living Brain, Boston, MA.

Crawford, J.L., Paige, L.E., Cassidy, B.S., & Gutchess, A.H. (2015). Facing the facts: Assessing the role of face-behavior incongruities in social cognition through the modulation of the N400. Social and Affective Neuroscience Society Conference, Boston, MA.

Teaching Experience

Teaching Assistant, Psych 3604: Cognitive Neuroscience Fall 2020, Spring 2021
Introductory survey course on cognitive neuroscience for undergraduate students
Lectures prepared: Motivation & Decision-Making; Executive Function; Cognitive Neuroscience of Aging

Undergraduate Mentoring (* denotes undergraduate who received external research support)

Casey Mason (2018-2019)*
Jadyn Park (2018-2020)*
Jada Smith (2018-2021)*
Vivian Gao (2019-2022)
Janelli Rodriguez (2019-2021)*
Angela Gormley (2020-2022)
HN Hoffmann (2021-2022)
Katie Stubbs (2021-2022)

Departmental & Community Service

Psychology Graduate Student Association (PGSA) Wellness Committee	2018-2019
Psychological & Brain Sciences (PBS) fMRI Journal Club (co-organizer)	2018-present
PBS Diversity, Equity, and Inclusion Committee (student rep)	2020-2021
PGSA Diversity Committee (student member & public relations coordinator)	2020-present
Project SHORT (mentor)	2020-present
PBS Aging Search Committee	2021-present

Professional Memberships

Cognitive Neuroscience Society
Organization for Human Brain Mapping
Society for Ambulatory Assessment

Additional Training

Completion of Cognitive, Computational, and Systems Neuroscience Pathway	2017-2019
Aging & Decision Neuroscience Harmonization Workshop, SRNDNA	2019

Other Skills

Programming: R, Matlab, bash/tcsh

Software: Adobe Creative Suite, E-prime, Inquisit Lab, PMOD, Psychtoolbox