

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 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

Provost's Undergraduate Research Fund Summer Research Fellowship 2014
Brandeis Undergraduate Research Fund Conference Travel Grant 2015
Elliot Aronson '54 Prize for Excellence in Psychology Research 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-present
Outstanding Teaching Assistant Award (WUSTL Psychological & Brain Sciences) 2021

Research Support

Crawford (PI) 6/1/2019–5/31/2022
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. (2021). Domain-general cognitive motivation: Evidence from economic decision-making. *Cogn. Research*, 6(4). [stage 1 registered report]
- 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*.
- 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

Crawford, J.L., Fields, E.C., Moore, I.L., Paige, L.E., Cassidy, B.S., & Gutchess, A. Negative appearance-behavior cues elicit greater LPP response during impression formation.

Crawford, J.L., English, T., & Braver, T.S. Incorporating Ecological Momentary Assessment into multi-level investigations of cognitive aging: Promise and practical considerations.

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.

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

Crawford, J.L., Peelle, J.E., & 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 (2020). Scientific Research Network on Decision Neuroscience & Aging Conference, Honolulu, HI.

Poster Presentations

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

Sara Hendrix (2018-2019)

Casey Mason (2018-2019)

Jadyn Park (2018-2020)

Jada Smith (2018-2021)

Madison Denton (2019-2020)

Sophia Dutton (2019-2020)

Vivian Gao (2019-present)

Ryan Law (2019-2020)

Janelli Rodriguez (2019-2021)

Angela Gormley (2020-present)

Alexandra Dram (2021-present)

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-present

PGSA Diversity Committee (student member & public relations coordinator)

2020-present

Project SHORT (mentor)

2020-present

Aging Search Committee – WUSTL Psychological & Brain Sciences

2021

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