

# Jennifer L. Crawford

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## Current Position

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

2017-present

## 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.**, English, T., & Braver, T.S. (in press). Incorporating Ecological Momentary Assessment into multi-method investigations of cognitive aging: Promise and practical considerations. *Psychology and Aging*.

**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*, 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**

**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.

Green, M.A., Seaman, K.L., **Crawford, J.L.**, Kuhnen, 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