

# Eric Garr

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Department of Psychological and Brain Sciences  
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## EDUCATION and TRAINING

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Johns Hopkins University Postdoctoral fellow	2019 – present
Graduate Center, City University of New York Ph.D. in psychology	2014 – 2019
Adelphi University B.A. in psychology (minor: philosophy)	2009 – 2013

## FELLOWSHIPS and AWARDS

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Hartwell Foundation Postdoctoral Fellowship	2019
BU Center for Systems Neuroscience Fellowship (relinquished)	2019
CUNY Dissertation Fellowship	2018
CUNY Doctoral Student Research Grant	2018
Five-Year CUNY Graduate Center Fellowship	2014
Summa Cum Laude, Adelphi University	2013
NSF Research Experience for Undergraduates, NYU	2013
Dean's List, Adelphi University	2009 – 2013
Psi Chi Honors Society	2011
Lillian Jackson Award, Adelphi University	2011
Dean's Scholarship, Adelphi University	2009

## PUBLICATIONS

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**Garr, E.** & Delamater, A.R. (2020). Chemogenetic inhibition in the dorsal striatum reveals regional specificity of direct and indirect pathway control of action sequencing. *Neurobiology of Learning and Memory*, 169, 107169.  
[doi.org/10.1016/j.nlm.2020.107169](https://doi.org/10.1016/j.nlm.2020.107169)

**Garr, E.,** Bushra, B., Tu, N., & Delamater, A.R. (2020). Goal-directed control on interval schedules does not depend on the action-outcome correlation. *Journal of Experimental Psychology: Animal Learning and Cognition*, 46(1), 47 – 64.  
[doi.org/10.1037/xan0000229](https://doi.org/10.1037/xan0000229)

**Garr, E.** (2019). Contributions of the basal ganglia to action sequence learning and performance. *Neuroscience and Biobehavioral Reviews*, 107, 279 – 295.  
[doi.org/10.1016/j.neubiorev.2019.09.017](https://doi.org/10.1016/j.neubiorev.2019.09.017)

**Garr, E. & Delamater, A.R.** (2019). Exploring the relationship between actions, habits, and automaticity in an action sequence task. *Learning & Memory*, 26(4), 128 – 132. [doi.org/10.1101/lm.048645.118](https://doi.org/10.1101/lm.048645.118)

**Garr, E.** (2017). What can recordings in the striatum tell us about associative learning? *The Journal of Neuroscience*, 37(50), 12091 – 12093.  
[doi.org/10.1523/JNEUROSCI.2770-17.2017](https://doi.org/10.1523/JNEUROSCI.2770-17.2017)

Delamater, A.R., **Garr, E.**, Lawrence, S., & Whitlow, J.W. (2016). Elemental, configural, and occasion setting mechanisms in biconditional and patterning discriminations. *Behavioural Processes*, 137, 40 – 52.  
[doi.org/10.1016/j.beproc.2016.10.013](https://doi.org/10.1016/j.beproc.2016.10.013)

**Garr, E.** (2016). Heterogeneous responses of tonically active interneurons in the dorsal striatum. *The Journal of Neuroscience*, 36(12), 3412 – 3413.  
[doi.org/10.1523/JNEUROSCI.0099-16.2016](https://doi.org/10.1523/JNEUROSCI.0099-16.2016)

## TALKS

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Johns Hopkins University, Biopsychology Seminar, September 2020  
Nanjing Medical University, Tianyuan Cloud Pharmacy Workshop, June 2020  
Boston University, Center for Systems Neuroscience, Boston, MA, February 2019  
CUNY, Cognitive and Comparative Psychology Colloquium, November 2018  
Brooklyn College, Psychology Colloquium, November 2017  
Gregynog Associative Learning Symposium, Wales, UK, April 2017  
Eastern Psychological Association, March 2016  
Eastern Psychological Association, March 2015  
NYU, Symposium of the Center for Neural Science Summer Undergraduate Research Program, July 2013

## POSTER PRESENTATIONS

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**Garr, E. & Janak, P.H.** (2020). Action-outcome contingency learning engages rodent anterior cingulate cortex in an output-general manner. Pavlovian Society, Virtual.

**Garr, E. & Janak, P.H.** (2020). Action-outcome contingency learning engages prelimbic cortex in an output-general manner. Virtual Dopamine Conference (ViDA).

**Garr, E. & Delamater, A.R.** (2019). Chemogenetic inhibition in the dorsal striatum reveals regional specificity of direct and indirect pathway control of action sequencing. Society for Neuroscience, Chicago, IL.

**Garr, E.** (2019). Chemogenetic inhibition reveals regional specificity of direct pathway control of action sequencing. Zuckerman Mind Brain Behavior Symposium, Columbia University, New York, NY.

Tu, N., **Garr, E.**, & Delamater, A.R. (2019). Dorsal striatal contributions to reward devaluation effects in interval timing. Eastern Psychological Association, New York, NY.

**Garr, E.** & Delamater, A.R. (2018). Investigating the role of the direct pathway in goal-directed control of action sequences. Society for Neuroscience, San Diego, CA.

**Garr, E.** & Delamater, A.R. (2018). Inhibition of the direct pathway via dorsomedial striatum impairs the performance but not learning of an action sequence. Gregynog Associative Learning Symposium. Wales, UK.

**Garr, E.**, Bushra, B., & Delamater, A.R. (2017). Habit formation does not depend on the correlation between response rates and reward rates. Society for Neuroscience, Washington, D.C.

**Garr, E.**, Hanini, W.K., & Delamater, A.R. (2016). Chunked action sequences: reward devaluation and cortical substrates. Society for Neuroscience, San Diego, CA.

**Garr, E.** & Delamater, A.R. (2016). Reward devaluation effects in a heterogeneous instrumental chain. Eastern Psychological Association, New York, NY.

**Garr, E.** & Delamater, A.R. (2015). Action sequences are sensitive to reward devaluation. Pavlovian Society, Portland, OR.

**Garr, E.** & Petry, S. (2012). Social Context Modulates Theory of Mind Reasoning. Ninth Annual Adelphi Research Conference, Garden City, NY.

**Garr, E.** & Sapanski, L. (2011). A Comparative Analysis of the Portraits and Self-Portraits of Vincent Van Gogh: A Psychological Perspective. Eighth Annual Adelphi Research Conference, Garden City, NY.

Crosby, J., Curtis, R., Ball, C., & **Garr, E.** (2010). Personality Style and Perception of Others. Seventh Annual Adelphi Research Conference, Garden City, NY.

## **TEACHING**

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Learning (PSYC 3510), Brooklyn College 2016 – 2018  
*Lecturer*

Statistics in Psychological Research (PSYC 3400), Brooklyn College 2015 – 2016

*Lab Instructor*  
Biological Concepts and Methods I (BIO 111), Adelphi University, 2011 – 2013  
*Recitation Instructor*

## **UNDERGRADUATES MENTORED**

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Sonal Sinha (Spring 2020)  
Noah Smith (Spring 2020)  
Chloé Pierre-Louis (Summer 2018)  
Badrunnesa Bushra (Fall 2017 – Spring 2018)  
Waleed Hanini (Fall 2016)  
Rachel Minchuk (Fall 2015 – Spring 2016)

## **SERVICE**

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### Johns Hopkins University

Selection Committee, Early Career Colloquium, Department of Psychological and Brain Sciences

Research Panel, Psychology Undergraduate Steering Committee, Department of Psychological and Brain Sciences

## **JOURNAL PEER REVIEW**

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Behavioral and Brain Sciences

Current Biology

Journal of Experimental Psychology: Animal Learning and Cognition

Neurobiology of Learning and Memory

Neuron

PLOS ONE