

COLLEGE OF HEALTH AND BEHAVIORAL SCIENCES FACULTY TEMPLATE

Full name with degree: Jarid Goodman, PhD Neuroscience

Rank: Assistant Professor

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Education: (example - whatever applies to you)

- **Ph.D.** 2016 Neuroscience (Texas A&M)
- **B.A.** 2010 Psychology (Rowan University)

Research Interests:


- The primary objective of my research program is to employ principles of learning and memory to develop new approaches to understanding and treating psychiatric disorders. Studies in my laboratory include (1) basic research to identify behavioral and neurobiological mechanisms supporting emotional modulation of memory, (2) investigation of the structure and function of memory systems in anxiety and habit-like disorders (i.e., drug addiction), and (3) development and testing of novel treatment strategies for these disorders. Research in my laboratory utilizes a variety of techniques, including behavior, psychophysiology, and immersive virtual reality.
- I'm also interested in the history of psychology and neuroscience and am currently working on biographies of several comparative psychologists.

Professional Organizations and Memberships:

- Society for Neuroscience
- International Society for the History of Neurosciences

Publications (listed out).

1. **Goodman, J.**, Hsu, E., & Packard, M.G. (in press). NMDA receptors in the basolateral amygdala mediate acquisition and extinction of an amphetamine conditioned place preference. *Behavioral Neuroscience*.
2. **Goodman, J.**, & Packard, M.G. (in press). There is more than one kind of extinction learning. *Frontiers in Systems Neuroscience*.

3. **Goodman, J.** & Packard, M.G. (2018). The role of the dorsal striatum in extinction: a memory systems perspective. *Neurobiology of Learning and Memory*, 150, 48–55.
4. Packard, M.G., **Goodman, J.**, & Ressler, R.L. (2018). Emotional modulation of habit memory: neural mechanisms and implications for psychopathology. *Current Opinion in Behavioral Sciences*, 20, 25-32.
5. **Goodman, J.**, & McIntyre, C.K. (2017). Impaired spatial memory and enhanced habit memory in a rat model of post-traumatic stress disorder. *Frontiers in Pharmacology, Neuropharmacology*, 8, 663.
6. **Goodman, J.**, Ressler, R.L., & Packard, M.G. (2017). Enhancing and impairing extinction of habit memory through modulation of NMDA receptors in the dorsolateral striatum. *Neuroscience*, 352, 216-225.
7. **Goodman, J.**, McIntyre, C., & Packard, M.G. (2017). Amygdala and emotional modulation of multiple memory systems. In: The amygdala – where emotions shape perception, learning and memories, Dr. Barbara Ferry (Ed.). InTech, DOI: 10.5772/intechopen.69109
8. **Goodman, J.**, Gabriele, A., & Packard, M.G. (2017). Differential effects of neural inactivation of the dorsolateral striatum on response and latent extinction. *Behavioral Neuroscience*, 131, 143-148.
9. Packard, M.G., & **Goodman, J.** (2017). Neurobiology of procedural learning in animals. In: Learning and Memory: A Comprehensive Reference, 2nd Edition (Eichenbaum H, ed.).
10.  **Goodman, J.**, Ressler, R.L., & Packard, M.G. (2016). The dorsolateral striatum selectively mediates extinction of habit memory. *Neurobiology of Learning and Memory*, 136, 54-62.
11. **Goodman, J.**, & Packard, M.G. (2016). Memory systems of the basal ganglia. In: Handbook of Basal Ganglia Structure and Function Second Edition (Steiner H, Tseng KY, eds.) Academic Press/Elsevier, 725-740.
12. **Goodman, J.**, Gabriele, A., & Packard, M.G. (2016). Hippocampus NMDA receptors selectively mediate latent extinction of place learning. *Hippocampus*, 26, 1115-1123.
13. **Goodman, J.**, & Packard, M.G. (2016). Memory systems and the addicted brain. *Frontiers in Psychiatry*, 7, 24.
14. Goode, T.E., Leong, K.C., **Goodman, J.**, Maren, S., & Packard, M.G. (2016). Enhancement of striatum-dependent memory by conditioned fear is mediated by beta-adrenergic receptors in the basolateral amygdala. *Neurobiology of Stress*, 3, 74-82.
15. **Goodman, J.**, & Packard, M.G. (2015). The memory system engaged during acquisition determines the effectiveness of different extinction protocols. *Frontiers in Behavioral Neuroscience*, 9, 314.
16. **Goodman, J.**, Leong, K.C., & Packard, M.G. (2015). Glucocorticoid enhancement of dorsolateral striatum-dependent habit memory requires concurrent noradrenergic activity. *Neuroscience*, 311, 1-8.
17. **Goodman, J.**, & Packard, M.G. (2015). The influence of cannabinoids on learning and memory processes of the dorsal striatum. *Neurobiology of Learning and Memory*, 125, 1-14.
18. Wingard, J.C., **Goodman, J.**, Leong, K.C., & Packard, M.G. (2015). Differential effects of massed and spaced training on place and response learning: A memory systems perspective. *Behavioural Processes*, 118, 85-89.
19. Leong, K.C., **Goodman, J.**, & Packard, M.G. (2015). Re-exposure to fear-conditioned stimuli biases rats toward the use of dorsolateral striatum-dependent learning and enhances consolidation of habit memory. *Behavioural Brain Research*, 291, 195-200.
20. **Goodman, J.**, Marsh, R., Peterson, B.S., & Packard, M.G. (2014). The neurobehavioral development of multiple memory systems: implications for childhood and adolescent psychiatric disorders. *Journal of Child Psychology and Psychiatry*, 55, 582-610.
21. **Goodman, J.**, & Packard, M.G. (2014). Peripheral and intra-dorsolateral striatum injections of the cannabinoid receptor agonist WIN 55,212-2 impair consolidation of stimulus-response memory. *Neuroscience*, 274, 128-137.

22. Packard, M.G., & **Goodman, J.** (2013). Factors that influence the relative use of multiple memory systems. *Hippocampus*, 23, 1044-1052
23. **Goodman, J.**, Leong, K.C., & Packard, M.G. (2012). Emotional modulation of multiple memory systems: implications for the neurobiology of post-traumatic stress disorder. *Reviews in the Neurosciences*, 23, 627-643.
24. Leong, K.C., **Goodman, J.**, & Packard, M.G. (2012). Buspirone blocks the enhancing effects of the anxiogenic drug RS 79948-197 on consolidation of habit memory. *Behavioural Brain Research*, 234, 299-302.
25. Packard, M.G., & **Goodman, J.** (2012). Emotional arousal and multiple memory systems in the mammalian brain. *Frontiers in Behavioral Neuroscience*, 6, 14.