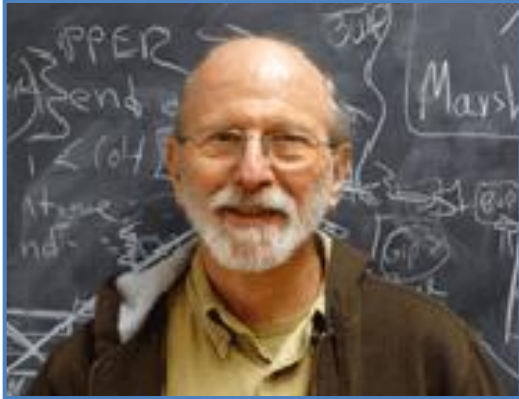


# Brown-Hemmes Lab



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Joint themes in our laboratory are animal and human learning with an emphasis on associative learning and temporal control. An enduring question concerns the role of timing in operant and Pavlovian conditioning. Recent research has extended our interest in timing to the applied domain. Other research interests in the lab include the relation of emotion to timing behavior in human observers and (cont'd next page)

## *Current projects:*

The effect of fear cues on human time estimation; Conditioned inhibition in pigeon autoshaping; Teaching time production in people with mental retardation; Time production in Huntington's Disease model rats.

## *Recent Publications:*

Callu, D., El Massioui, N., Dutrieux, G., Brown, B.L., & Doyere, V. (2009). Cognitive processing impairments in a supra-second temporal discrimination task in rats with cerebellar lesion. *Neurobiology of Learning and Memory*, *91*(3), 250-259.

Bernstein, H., Brown, B.L., & Sturmey, P. (2009). The effects of fixed ratio values on concurrent mand and play responses. *Behavior Modification*, *33*, 199-206.

Johnson, L.R., Hou, M., Ponce-Alvarez, A., Gribelyuk, L., Alphas, H., Albert Jr, L., Brown, B.L., LeDoux, J., Doyere, V. (2008). A recurrent network in the lateral amygdale: A mechanism for coincidence detection. *Frontiers in Neural Circuits*.

Brown, B.L., Richer, P., & Doyere, V. (2007). Postcue effects on peak interval timing in rats. *Behavioural Processes*, *74*, 300-310.

Aum, S., Brown, B.L., & Hemmes, N.S. (2007). The effect of intruded events on peak time: the role of reinforcement history during the intruded event. *Behavioral Processes*, *74*, 187-197. Invited article for the Special Issue in Honor of Russell Church.

# Brown-Hemmes Lab



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(cont'd) the effect of a disruption in timing on timing behavior in pigeons.

Developmental changes in timing behavior is studied on a rat model of Huntington's Disease. Other research projects unrelated to timing involve work with children in an applied behavior analysis project on prompt fading, and research on parent training.

## ***Current projects:***

*Teaching response variability in children with autism; Effects of feedback on human time estimates; Planning for effective parent training; Developmental changes in timing in transgenic rats modeling Huntington's Disease*

## ***Recent Publications:***

Shamoun, K. A., & Hemmes, N. S. (Submitted). The Effect of simultaneous presentation of preferred and non-preferred foods, and fading of preferred foods on acceptance of non-preferred foods by a child with autism. Submitted to *Journal of Applied Behavior Analysis*.

Ryan, C. S., Hemmes, N. S., & Brown, B. L. (submitted; under revision). Effects of conditioning history on selective stimulus control by elements of compound discriminative stimuli. Submitted to *Journal of the Experimental Analysis of Behavior*.

Ryan, C. S., Hemmes, N. S., Sturmey, P., Jacobs, J. D., & Grommet, E. K. (2008). Effects of a brief staff training procedure on instructors' use of incidental teaching and students' frequency of initiation toward instructors. *Research in Autism Spectrum Disorders, 2*, 28-45.

Aum, S., Brown, B. L., & Hemmes, N. S. (2007). The Effect of Intruded Events on Peak Time: The Role of Reinforcement History during the Intruded Event. *Behavioural Processes, 74* (2007) 187-197.

Ryan, C. S., & Hemmes, N. S. (2005). Effects of the contingency for homework submission on the probability of homework submission and on quiz performance in a college course. *Journal of Applied Behavior Analysis, 38*, 79-88.

Ryan, C. S., & Hemmes, N. S. (2005). Post-training discrete-trial teaching performance by instructors of young children with autism in early intensive behavioral intervention. *The Behavior Analyst Today, 6*, 1-12.



Sho Araiba  
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I am from Japan.  
My current research involves timing behavior of pigeons and concept formation with children with autism.



Michelle Garruto  
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Michelle's research interests include response variability, stimulus overselectivity, and conditional discrimination learning. She is currently working on her dissertation, in which she is investigating the effects of prompt-fading and reinforcement on varied activity selection in students with autism. Michelle has worked with individuals with developmental disabilities for over ten years, and currently consults to public schools educating students with autism.



Erich K. Grommet  
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I am interested in the interaction between emotions and time estimation. I am presently writing my Major Area Paper, which will be a review of this area. I am also involved in running a study aimed at determining whether fear evoking stimuli affect time estimation and whether the effects of fear are attention or arousal based.



Joseph Jacobs  
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I am in my fourth year in the LPBA doctoral program . My research revolves around stimulus discrimination in which time duration is treated as a stimulus. A great aspect of the LPBA doctoral program is that students develop certain level of expertise in both basic science of learning and its applications regardless of their main research area in either of these broad areas.



Kathleen Mangiapanello  
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I am currently completing my dissertation research investigation the effects of feedback on time human judgments; specifically, how different properties of feedback stimuli affect the timing response.

During my time as a student in the LPBA program, I have co-chaired two QC Developmental Disabilities conferences. I served for three years as a student representative on the LPBA Executive Committee, during which time I founded the student mentoring program.

Upon completion of my degree, I hope to both continue teaching at the college level, and conduct further research that examines behavior from both the cognitive and behavior-analytic perspective.



Roxana Nedelcu  
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Research Interests: autism, parent and staff training.  
Current Project: area paper with a focus on identifying components of effective parent training.



Interests include human and animal timings, applied behavior analysis, conditioned reinforcement .

Currently working on developing a transgenic Huntington's disease rat model colony at Queens College and investigating timing and cognitive deficits as early markers for the disease in the tgHD animals.

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