

# Seth Koslov, Ph.D.

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## Education

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### **Ph.D., Psychology (2020)**

Area of Cognitive Neuroscience  
The University of Texas at Austin  
Advisor: Jarrod Lewis-Peacock, Ph.D.

### **B.A., Plan II Liberal Arts Honors Program (2012)**

University of Texas at Austin  
Pre-Medical Course Route  
Honors Thesis: *Pitch, Space, and the Brain*  
Advisors: Bharath Chandrasekaran, Ph.D., and Art Markman, Ph.D.

## Research Experience

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### **Postdoctoral Associate**

**October 2021-Present**

Director: Brett Foster, Ph.D.  
Baylor College of Medicine  
Department of Neurosurgery

### **Graduate Research Assistant**

**August 2015-August 2020**

The Lewis-Peacock Cognitive Neuroscience of Memory Lab  
Director: Jarrod Lewis-Peacock, Ph.D.  
University of Texas at Austin  
Department of Psychology, Imaging Research Center, Center for Learning & Memory

### **Graduate Research Assistant**

**August 2015-August 2017**

Learning and Decision-Making Lab  
Director: Christopher Beevers, Ph.D.  
University of Texas at Austin  
Institute of Mental Health Research

### **Graduate Research Assistant**

**August 2015-August 2017**

SoundBrain Lab  
Director: Bharath Chandrasekaran, Ph.D.  
University of Texas at Austin  
Communication Sciences and Disorders and the Department of Psychology

### **Lab Manager**

**July 2012 – August 2015**

The Laboratory for the Cognitive Neuroscience of Categorization and Decision Making  
Director: W. Todd Maddox, Ph.D.  
University of Texas at Austin  
Department of Psychology

## Research Assistant

SoundBrain Lab

Director: Bharath Chandrasekaran, Ph.D.

University of Texas at Austin

Communication Sciences and Disorders and the Department of Psychology

November 2010 - July 2012

## Publications

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**Koslov, S.R.**, Bulls, L.S., Lewis-Peacock, J.A. (under review). Eye-tracking reveals differential profiles of monitoring and costs in prospective memory. *Cognitive Research: Principles and Implications*.

Scullin, M.K., **Koslov, S.R.**, Lewis-Peacock, J.A. (2020). Prospective memory forgetting. In M. Eysenck & D. Groome (Eds.), *Forgetting: Explaining Memory Failure*. Sage, 69-84.

**Koslov, S.R.**, Mukerji, A., Hedgpeth, K., Lewis-Peacock, J.A. (2019). Cognitive Flexibility Improves Memory for Delayed Intentions. *eNeuro*, 6(6). DOI: <https://doi.org/10.1523/ENEURO.0250-19.2019>

Pearson, R.H., **Koslov, S.**, Hamilton, B., Shumake, J., Carver, C.C., Beevers, C.G. (2018). Acetaminophen Enhances the Reflective Learning Process. *Social Cognitive and Affective Neuroscience*. 13(10), 1029-1035.

Maddox, W.T., **Koslov, S.**, Yi, H., Chandrasekaran, B. (2016). Performance Pressure Enhances Speech Learning. *Applied Psycholinguistics*, 37(6), 1369-1396.

Maddox, W.T., Gorlick, M.A., **Koslov, S.**, McGeary, J.E., Knopik, V.S., & Beevers, C.G. (2015). Serotonin transporter genetic variation is differentially associated with reflexive- and reflective-optimal learning. *Cerebral Cortex*. DOI: 10.1093/cercor/bhv309

Maddox, W.T., Chandrasekaran, B., Smayda, K., Yi, H., **Koslov, S.**, Beevers, C.G. (2014). Elevated Depressive Symptoms Enhance Reflexive but not Reflective Auditory Category Learning. *Cortex*. 58, 186-198.

Chandrasekaran, B., **Koslov, S.**, Maddox, W.T. (2014). Toward A Dual-Learning Systems Model of Speech Category Learning. *Frontiers in Psychology*. 5(825), 1-17.

## Posters

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**Koslov, S.R.**, Bulls, L.S., Lewis-Peacock, J.A. Eye tracking of attention allocation during prospective remembering. Poster presented virtually at the 21<sup>st</sup> Annual Meeting of the Vision Sciences Society, June 2020.

**Koslov, S.R.**, Bulls, L.S., Lewis-Peacock, J.A. Eye tracking of attention allocation during prospective remembering. Poster presented virtually at the Annual Conference of the Cognitive Neuroscience Society, May 2020.

**Koslov, S.**, Hedgpeth, K., & Lewis-Peacock, J.A. Changing Cognitive Control for Prospective Memory in Dynamic Environments. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA, November 2018.

**Koslov, S.,** Hedgpeth, K., & Lewis-Peacock, J.A. Changing Cognitive Control for Prospective Memory in Dynamic Environments. Poster presented at 26th Annual ARMADILLO conference for Cognition and Cognitive Neuroscience, Houston, TX, September 2018.

**Koslov, S.** & Lewis-Peacock, J. Adaptive Cognitive Flexibility Improves both Prospective and Long-Term Remembering. Poster presented at the Society for Neuroscience Annual Meeting, Washington, DC, November 2017.

**Koslov, S.** & Lewis-Peacock, J. Fluid and Adaptive Changes of Prospective Memory Control. Poster presented at the 17th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL, May 2017.

**Koslov, S.** & Lewis-Peacock, J. Cognitive Flexibility Improves Both Prospective and Long-Term Remembering. Poster presented at the Austin Conference on Learning & Memory, Austin, TX, April 2017.

**Koslov, S.,** Sapuram, V., Cooper, J., Capanzana, J., Gorlick, M., Maddox, W.T. Stress Attenuates Valence Driven Deficits in Decision-Making. Poster presented at the 23<sup>rd</sup> Annual Meeting of the Cognitive Neuroscience Society, New York City, NY, April 2016.

Han, Y.C., **Koslov, S.,** Maddox, W.T., Chandrasekaran, B. Motivation and Speech Category Learning: A Dual-Learning Systems Approach. Poster presented at the 23<sup>rd</sup> Annual Meeting of the Cognitive Neuroscience Society, New York City, NY, April 2016.

Yi, H. **Koslov, S. R.,** Maddox, W. T., & Chandrasekaran, B. Mapping the auditory corticostriatal pathway in humans using diffusion tensor imaging. Poster to be presented at the Association for Research in Otolaryngology 2016 MidWinter Meeting, San Diego, CA, February 2016.

Yi, H. **Koslov, S. R.,** Maddox, W. T., & Chandrasekaran, B. Corticostriatal white matter connectivity predicts speech category learning success. Poster presented at the 7th Annual Meeting of the Society for the Neurobiology of Language, Chicago, IL, October 2015.

**Koslov, S.R.,** Blanco, N.J., Maddox, W.T., Chandrasekaran, B. Using Real-Time Computational Modeling to Individually Optimize Tone Category Learning. Poster presented at the 37th Annual Conference of the Cognitive Science Society, Pasadena, CA, July 2015.

**Koslov, S.,** Chandrasekaran, B., and Maddox, W.T. Performance Pressure Enhances Novel Speech Category Learning. Poster to be presented at the Auditory Perception, Cognition, and Action Meeting, Long Beach, California, November 2014.

Chandrasekaran, B., **Koslov, S.,** Luther, E., Ress, D. High-resolution imaging reveals tonotopic organization in human auditory midbrain. Poster presented at the Cognitive Neuroscience Society annual conference, Chicago, Illinois, April 2012.

## **Presentations**

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**Koslov, S.R.** Eye tracking of attention allocation during prospective remembering. Dallas & Austin Area Memory Meeting, August, 2020.

**Koslov, S.R.** Profiles of strategy implementation during prospective memory. Department of Psychology and Biomedical Imaging Center Seminar, Austin, TX, April, 2020.

**Koslov, S.R.** Managing cognitive control for prospective memory in dynamic environments. Center for Learning and Memory Annual Retreat, Austin, TX, November, 2018.

**Koslov, S.R.** Managing cognitive control for prospective memory in dynamic environments. Society for Neuroscience Annual Meeting, San Diego, CA, November, 2018.

**Koslov, S.R.** Dynamics of Prospective Memory. Cognitive Neuroscience and Biomedical Imaging Center Seminar, September, 2017.

**Koslov, S.R.** Dynamics of Prospective Memory. Dallas & Austin Area Memory Meeting, September, 2017.

## Awards

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Provost Graduate Excellence Fellowship 2015-2020

Professional Development Award, Spring 2015, Spring 2017, Fall 2018

Society for Neuroscience Trainee Professional Development Award, Fall 2018

Accepted to Methods in Neuroscience at Dartmouth Computational Summer School, Summer 2017

## Clubs and Societies

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University of Texas Psychology Graduate Diversity Committee Secretary/Treasurer, 2019-2020

Society for Neuroscience (SfN) Member

Methods and Experiments in RealTime Imaging and Neurofeedback (MERLIN) Group Member

Working and Long-Term Memory Journal Club Member – UT Austin

Computational Neuroimaging Journal Club Member – UT Austin

## Mentoring

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### Student Mentees:

Abigail Hanna: The Effect of Childhood Trauma on Explicit and Implicit Category Learning.

- Undergraduate Research Fellowship Award: \$1000
- Poster presented at University of Texas Psychology Honors Society Poster Session, Spring 2016
- Doctoral Student, Clinical Psychology, University of Houston

Vaibhav Sapuram: The Effects of Stress on Reflexive Processing

- Undergraduate Research Fellowship Award: \$1000
- Presented at University of Texas Psychology Honors Society Poster Session, Spring 2015
- Doctoral Student, Psychology, University of North Carolina at Greensboro

Yuan Han: Effects of Emotion on Speech Category Learning

- Undergraduate Research Fellowship Award: \$1000
- Doctoral Student, Psychology, Northwestern University

Bettina Bustos: The Interaction of Depression and Cognitive Control on Prospective Memory

- Low-level light therapy effects on proactive and reactive control
- Lab Manager: Control and Decision Making Lab, Washington University in St. Louis

Bahareh Sharafi: Intellectual Entrepreneurship Pre-Grad Intern

- Project Title: A Comprehensive Meta-Analysis of Gender Driven Differences in Visual-Spatial Working Memory

Landry Bulls: Transcranial Infrared Neural Stimulation and Cognitive Control

- Undergraduate Research Fellowship Award: \$600
- Lab Manager: SCRAP Lab, Dartmouth College

Katlyn Hedgpeth: Examining the role of maintenance and monitoring in prospective memory

- Presentation given at Dallas and Austin Area Memory Meeting, 2019
- Technical Analyst, Indeed.com

**Roles:**

Leader for the Coding Club for Research Assistants in the Lewis-Peacock Lab (2015 – 2020)

Mentor through the Intellectual Entrepreneurship (IE) Pre-Graduate School Internship (2017)

Summer Undergraduate Research Experience (SURE) program mentor (2017-2019)

## **Programs, Languages, and Skills**

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**Programming:** MATLAB (Psychtoolbox 2.54 & 3), Python, E-Prime, SR Experiment Builder and Eye-Link (eyelink toolbox), Bash

**Analysis:** FSL, ANTs, R, Audacity, PRAAT, Category Learning Computational Modeling, Reinforcement Learning Computational Modeling, Multivariate Pattern Analyses, Freesurfer

- Experience with: AFNI, SUMA, and SPM neuroanalysis tools

**Qualifications:** Texas Advanced Computing Center User, MRI User (Siemens 3T scanner), e-Mini-International Neuropsychiatric Interview, Low-Level Light Therapy Technique, SR Eye-Link eyetracking system