

Cirriculum Vitae
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Education

- Ph.D., University of Texas at Austin **2021**
Psychology with Cognitive Neuroscience specialization
- B.Sc., University of Missouri at St. Louis **2016**
Major: Psychology
Minor: Biology
Neuroscience Certificate

Publications

- 2019** Demeter, D., Engelhardt, L.E., Mallett, R., Gordon, E.M., Nugiel, T., Fletcher, J.M., Juranek, J., Harden, K.P., Tucker-Drob, E.M., Lewis-Peacock, J.A., & Church, J.A. (submitted). Functional connectivity fingerprints at rest are similar across youths and adults and vary with genetic similarity.
- Carr, M., Konkoly, K., Mallett, R., Edwards, C., Appel, K., & Blagrove, M. (submitted). Combining pre-sleep cognitive training and REM-sleep stimulation in a laboratory morning nap for lucid dream induction.
- Mallett, R., Mummaneni, A., & Lewis-Peacock, J.A. (submitted). Distraction biases working memory for faces. *OSF* preprint at <https://osf.io/qvez5>
- Mallett, R., & Lewis-Peacock, J.A. (submitted). Working memory prioritization impacts neural recovery from distraction. *OSF* preprint at <https://osf.io/vep97>
- 2018** Mallett, R., & Lewis-Peacock, J.A. (2018). Behavioral decoding of working memory items inside and outside the focus of attention. *Annals of New York Academy of Sciences* 1424(1), 256-267.

Conference Presentations

2019 Mallett, R., & Lewis-Peacock, J.A. (Oct 2019). Reconstructing working memory swap errors with fMRI data. Poster accepted at the Society for Neuroscience annual meeting in San Diego, CA.

Konkoly, K., Mallett, R., Carr, M., Mazurek, C., & Paller, K. (Oct 2019). Performing actions in lucid and nonlucid dreams. Poster accepted at the Society for Neuroscience annual meeting in San Diego, CA.

Mallett, R., & Oblak, E. (June 2019). Flicker: a device for triggering audio from within a lucid dream. Talk presented at the International Association for the Study of Dreams annual meeting in Kerkrade, The Netherlands.

Mallett, R., Carr, M., Konkoly, K., Freegard, M., Bradshaw, C., & Schredl, M. (June 2019). Probing the phenomenology of semi-lucid dreams during home induction attempts. Poster presented at the International Association for the Study of Dreams annual meeting in Kerkrade, The Netherlands.

Mallett, R., & Lewis-Peacock, J.A. (May 2019). Working memory distraction resistance depends on prioritization. Poster presented at the Vision Sciences Society annual meeting in St. Pete Beach, FA.

Mallett, R., & Lewis-Peacock, J.A. (April 2019). Distraction recovery depends on prioritization in working memory. Poster presented at the UT Austin Conference on Learning & Memory in Austin, TX.

Kilmarx, J., Oblak, E., Shan, J., Mallett, R., Sulzer, J.S., & Lewis-Peacock, J.A. (April 2019). A real-time fMRI neurofeedback platform for stroke rehabilitation. Poster presented at Clinically Applied Rehabilitation Research and Engineering (CARE) Research Day in Austin, TX.

Mallett, R., & Oblak, E. (Jan 2019). Communication between lucid dreamer and experimenter. Poster presented at the MIT Media Lab Dream Engineering Symposium in Boston, MA.

2018 Mallett, R., Mummaneni, A., & Lewis-Peacock, J.A. (Sept 2018). Distraction biases visual working memory for complex stimuli. Poster presented at the Psychonomic Society annual meeting in New Orleans, LA.

Mallett, R., & Lewis-Peacock, J.A. (Sept 2018). Recovery of working memories after delay-period interference. Poster presented at the Society for Neuroscience annual meeting in San Diego, CA.

Demeter, D.V., Engelhardt, L.E., Mallett, R., Roe, M.A., Nugiel, T., Mitchell, M.E., Juranek, J., Harden, K.P., Tucker-Drob, E.M., Lewis-Peacock, J.A., & Church, J.A. (Sept 2018). Identifying twin pairs by classifying variability in whole-brain

functional connectivity. Poster presented at the Society for Neuroscience annual meeting in San Diego, CA.

Carr, M., Konkoly, K., Mallett, R., Edwards, C., Appel, K., & Blagrove, M. (Sept 2018). A technique for inducing high levels of signal-verified lucid dreams in a laboratory morning nap. Poster presented at the European Sleep Research Society annual meeting in Basel, Switzerland.

Mallett, R., Carr, M., Konkoly, K. (June 2018). Circadian effects on lucid dream induction success. Talk presented at the International Association for the Study of Dreams annual meeting in Scottsdale, AZ.

Mallett, R. (June 2018). Where are we? Comparing media portrayal and science of sleep-wake communication. Talk presented at the International Association for the Study of Dreams annual meeting in Scottsdale, AZ.

Mallett, R., & Lewis-Peacock, J.A. (May 2018). Working memory prioritization impacts the dynamics of attentional capture. Poster presented at the Vision Sciences Society annual meeting in St. Pete Beach, FA.

Jeanneret, S., Roche, E., Hennings, A., Dutcher, A., Hollenbeck, M., Mallett, R., & Lewis-Peacock, J.A. (May 2018). Context-based competition during episodic memory retrieval triggers forgetting. Poster presented at the Vision Sciences Society annual meeting in St. Pete Beach, FA.

2017 Mallett, R., & Lewis-Peacock, J.A. (Sept 2017). Behavioral decoding of multiple items in working memory. Talk presented at the Dallas and Austin Area Memory Meeting in Austin, TX.

2016 Mallett, R. (June 2016). Use of brain-computer interface during a lucid dream: pilot study and future directions. Talk presented at the International Association for the Study of Dreams annual meeting in Kerkrade, The Netherlands.

Mallett, R. (June 2016). Evolutionary stimuli in dreams: an investigation using lucid dreamers. Poster presented at the International Association for the Study of Dreams annual meeting in Kerkrade, The Netherlands.

2015 Mallett, R. (April 2015). Observations on environmental accuracy of lucidly dreamed content. Talk presented at the Undergraduate Research Symposium in St. Louis, MO.

2014 Mallett, R., & Welcome, S. (April 2014). Neural correlates of spelling-sound interaction in adult readers. Poster presented at the Undergraduate Research Symposium in St. Louis, MO.

Grants and Fellowships

Boehringer Ingelheim Fonds Travel Grant	2019
Mentor-Mentee Award, Sleep Research Society	2019
Dallenbach Fellowship, UT Austin	2018
Dream Science Foundation Grant, IASD	2018
Imaging Research Center Pilot Grant (02022018a), UT Austin	2018
Imaging Research Center Pilot Grant (03312017a), UT Austin	2017
Dream Science Foundation Grant, IASD	2017
Psi Chi Undergraduate Research Grant, APA	2014
College of Arts & Sciences Undergraduate Research Grant, UMSL	2014

Awards

Graduate Student Professional Development Award, UT Austin	2018
Graduate Student Professional Development Award, UT Austin	2018
Center for Learning & Memory Travel Award, UT Austin	2018
Ernest Hartmann Award for Student Research, IASD	2016
John J. Boswell Psi Chi Scholarship Award, APA	2014
First Place Award for Outstanding Poster in Natural and Life Sciences, UMSL	2014

Outreach

Dell Medical School Health Sciences Summer Camp, Austin, TX Designed and taught neuroscience lesson plans for youth students.	2017, 2018
Neuroscience Undergraduate Reading Program, Austin, TX Mentored undergraduate neuroscience students on the research process.	2017
IE Pre-Graduate School Internship Mentored undergraduate students on the graduate application process.	2017

Affiliations

Society for Neuroscience
Sleep Research Society
Vision Sciences Society
Psychonomic Society
Psi Chi International Honor Society