

Augustin C. Hennings

The University of Texas at Austin
Institute for Neuroscience

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Education

Ph.D., The University of Texas at Austin (2016-Present)

Institute for Neuroscience

Advisors: Dr. Joseph Dunsmoor & Dr. Jarrod Lewis-Peacock

B.S. Neuroscience, The College of William and Mary (2012-2016)

Departmental Honors in Neuroscience

College of Arts and Sciences, Department of Neuroscience

Advisor: Dr. Robert Barnet

Thesis Title: *Light-Enhanced Startle as an Experimental Model of Withdrawal*

Major in Hispanic Studies, The College of William and Mary (2012-2016)

College of Arts and Sciences, Department of Modern Languages

Professional Appointments

The University of Texas at Austin, Institute for Neuroscience (2016-Present)

Graduate Research Assistant, Dr. Michael Drew (2016-2017)

Graduate Research Assistant, Dr. Jarrod Lewis-Peacock (2017-Present)

Graduate Research Assistant, Dr. Joseph Dunsmoor (2017-Present)

The College of William and Mary, Department of Neuroscience (2013-2016)

Undergraduate research assistant, Dr. Robert Barnet (2013-2016)

Lab Manager, Dr. Robert Barnet (2014-2016)

Publications

Hennings, A. C., McClay, M., Lewis-Peacock, J. A., & Dunsmoor, J. E. (2020). Contextual reinstatement promotes extinction generalization in healthy adults but not PTSD. *Neuropsychologia*
<https://doi.org/10.1016/j.neuropsychologia.2020.107573>

Keller, N. E., **Hennings, A. C.**, & Dunsmoor, J. E. (2020). Behavioral and neural processes in counterconditioning: past and future directions. *Behaviour Research and Therapy*.
<https://doi.org/10.1016/j.brat.2019.103532>

Hennings, A. C., Bibb, S. A., Lewis-Peacock, J. A., Dunsmoor, J. E. (Submitted). The effect of top-down thought suppression on fear extinction generalization.

McClay, M., **Hennings, A. C.**, Reidel, A., & Dunsmoor, J. E. (Submitted). The features that shape fear: How emotional intensity and threat relevance interact to guide fear learning. Preprint available at <https://doi.org/10.31234/osf.io/ckf8d>

Hennings, A. C., McClay, M., Lewis-Peacock, J. A., & Dunsmoor, J. E. (In Prep). Dissociable neural reinstatement of emotional memories in human PFC.

Hennings, Augustin C., "Light-Enhanced Startle as an Experimental Model of Withdrawal" (2016). *College of William & Mary Undergraduate Honors Theses*. Paper 947.

Awards/Support

- **NRSA F31 Fellowship recipient (2020-2022)**
- **Big Data in Neuroscience Workshop Trainee Travel Award (2019)**, competitive travel award to attend workshop held by the Advanced Computational Neuroscience Network, UM Ann Arbor
- **Wisconsin Symposium on Emotion Trainee Travel Award (2019)**, competitive travel award to present novel research at annual symposium, UW Madison
- **Office of Graduate Studies Professional Development Award (2018)**, competitive travel award for presenting novel research at an academic conference
- **Charles Center Summer Scholarship (2015)**, scholarship awarded for undergraduate research at The College of William and Mary.
- **HHMI Freshman Research Award (2013)**, undergraduate award that provides funds for a novel project and the opportunity to work with a research mentor.

Teaching and Mentorship

The University of Texas at Austin

Teaching Assistant (2020)

- NEU337 Programming & Data Analysis. Introduction to using Python for Neuroscience taught by Dr. Marcel Goldschen-Ohm. Responsibilities included leading TA office hours and grading assignments.

Undergraduate research assistant (RA) supervision (2016-Present)

- Supervised and trained part-time undergraduate RAs for recruitment, implementation and data analysis of experiments (Stephanie Jeanneret, Swecha Ramireddy, Sophia Bibb)
- Mentor for Neuroscience Undergraduate Research Program, one-on-one mentoring of an undergraduate student on a neuroscience topic. (Mahaly Baptise, Marissa Alvarez, Angelica Garcia, Alejandro Hipolito)

Community Outreach (2017-Present)

- Volunteer for Dell Medical School Health Sciences Summer Camp, lead module on brain decoding and principles of cognitive neuroscience for middle and high school students.

The College of William and Mary

Undergraduate research assistant supervision (2014-2016)

- Supervised and trained undergraduate RAs for implementation and data collection of experiments including proper handling of animal subjects and injections of controlled substance.
- Established and supervised an undergraduate lab journal club that focused on critical analysis and presentation of scientific studies

Selected Presentations and Invited Talks

Hennings, A. C., McClay, M., Lewis-Peacock, J. A., Dunsmoor, J. E. (2019). *Dissociable neural representations of emotional memories in human PFC*. Talk presented at the Center for Learning and Memory Retreat, Austin, TX.

Hennings, A. C., McClay, M., Lewis-Peacock, J. A., Dunsmoor, J. E. (2019). *"Emotional engrams": Reinstatement of emotional memories in humans*. Talk presented at the Cognitive Neuroscience and Biomedical Imaging Center seminar, Austin, TX.

Hennings, A. C., McClay M., Lewis-Peacock, J. A., Dunsmoor, J. E. (2019). *Reinstatement of mental context resolves conflicts between fear and extinction memories*. Poster presented at the Wisconsin Symposium on Emotion, Madison, WI.

- Hennings, A. C.,** McClay, M., Lewis-Peacock, J. A., Dunsmoor, J. E. (2019). *Reinstatement of mental context resolves conflicts between fear and extinction memories*. Poster presented at the Austin Conference on Learning and Memory, Austin, TX.
- Nocera, N., Vasudevan, K., **Hennings, A. C.,** Bonefas, K., Zemelman, B., Drew, M. (2019). *Isolation and analysis of Supramammillary Nucleus neurons projecting to the Hippocampus, Basolateral Amygdala, and Prefrontal Cortex*. Poster presented at the Austin Conference on Learning and Memory, Austin, TX.
- Hennings, A. C.,** Lewis-Peacock, J. A., Dunsmoor, J. E. (2019). *Reinstatement of mental context facilitates retrieval of extinction memories*. Poster presented at the Cognitive Neuroscience Society Meeting. San Francisco, CA.
- Hennings, A. C.,** McClay, M. Lewis-Peacock, J. A., Dunsmoor, J. E. (2018). *Reinstatement of mental context resolves conflicts between fear and extinction memories*. Talk presented at the Center for Learning and Memory Retreat, Austin, TX.
- Hennings, A. C.,** Lewis-Peacock, J. A., Dunsmoor, J. E. (2018). *Mental context tagging reveals deficits of extinction learning in PTSD*. Nanosymposium presentation given at the Society for Neuroscience Annual Meeting. San Diego, CA.
- Hennings, A. C.,** Lewis-Peacock, J. A., Dunsmoor, J. E. (2018). *Mental context tagging reveals deficits of extinction learning in PTSD*. Talk given at the Cognitive Neuroscience and Imaging Research Center seminar. Austin, TX.
- Hennings, A. C.,** Lewis-Peacock, J. A., Dunsmoor, J. E. (2018). *Mental context tagging reveals deficits of extinction learning in PTSD*. Talk given at the Dallas & Austin Area Memory Meeting. Waco, TX.
- Hennings, A. C.,** Lewis-Peacock, J.A., Dunsmoor, J. E. (2018). *Mental context reinstatement determines successful retrieval of extinction memories*. Poster presented at the Context and Episodic Memory Symposium, Philadelphia, PA.
- Hennings, A. C.,** Lewis-Peacock, J.A., Dunsmoor, J. E. (2018). *Mental context reinstatement may underlie successful retrieval of extinction memories*. Poster presented at the Cognitive Neuroscience Meeting, Boston, MA.
- Nocera, N., **Hennings, A. C.,** Bonefas, K., Vasudevan, K., Zemelman, B., Drew, M. R. (2018) *Supramammillary nucleus modulates dentate gyrus activity and hippocampus-dependent behavior*. poster presented at the Society for Neuroscience Annual Meeting. San Diego, CA.
- Hennings, A. C.,** Lewis-Peacock, J.A., Dunsmoor, J. E. (2017). *Tagging mental contexts during fear conditioning*. Presented at the Dallas & Austin Area Memory Meeting. Austin, TX.
- Hennings, A. C.,** Jeanneret, S., Dutcher, A., Hollenbeck, M., Lewis-Peacock, J. A. (2017). *Competition and forgetting during context-based episodic memory retrieval*. Poster presented at the Austin Conference on Learning and Memory, Austin, TX.
- Barnet R. C, **Hennings, A. C.** (2016). *Light-enhanced startle sensitivity to acute nicotine withdrawal*. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA.
- Hennings, A. C.,** Yeluru, S., Rogers, S., Braden, D., Canty-Samuel, A., & Barnet. R.C. (2015, Sept.). *Vulnerable periods during nicotine withdrawal associated with relapse*. Poster presented at the annual Summer Research Showcase, College of William & Mary, Williamsburg, VA.

Membership in Scientific Societies

- Cognitive Neuroscience Society
- Society for Neuroscience
- Psy Chi Honor Society

References. Letters available upon request.

Joseph E. Dunsmoor, Ph.D.
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