

## Augustin C Hennings, PhD

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### PROFESSIONAL APPOINTMENTS

2022 – Current      **Princeton University**  
Postdoctoral Research Fellow, Princeton Neuroscience Institute  
Laboratory of Dr. Ken Norman

### EDUCATION

2022                      **The University of Texas at Austin**  
PhD, Institute for Neuroscience  
Advisors: Dr. Joey Dunsmoor & Dr. Jarrod Lewis-Peacock  
Dissertation: *Contextual processes in Pavlovian conditioning and extinction: insights from episodic memory*

2016                      **The College of William and Mary**  
BS, Neuroscience, Departmental Honors  
Major in Hispanic Studies

### PEER-REVIEWED PUBLICATIONS

- Hennings AC**, Bibb SA, Lewis-Peacock JA, & Dunsmoor JE (2025). Neural reinstatement of encoding context mediates the switch between fear and extinction recall. *Journal of Cognitive Neuroscience* (forthcoming).
- Cooper SE, **Hennings AC**, Bibb SA, Lewis-Peacock JA, & Dunsmoor JE (2024). Semantic structures facilitate threat memory integration throughout the medial temporal lobe and medial prefrontal cortex. *Current Biology*.
- Hennings AC**, Cooper SE, Lewis-Peacock JA, & Dunsmoor JE (2022). Pattern analysis of neuroimaging data reveals novel insights on threat learning and extinction in humans. *Neuroscience & Biobehavioral Reviews*.
- Keller NE, **Hennings AC**, Leiker EK, Lewis-Peacock JA, & Dunsmoor JE (2022). Rewarded extinction increases amygdalar connectivity and stabilizes long-term memory traces in the vmPFC. *Journal of Neuroscience*.
- Hennings AC**, McClay M, Lewis-Peacock JA, & Dunsmoor JE (2022). Neural reinstatement reveals divided organization of fear and extinction memories in the human brain. *Current Biology*.
- Hennings AC**, Lewis-Peacock JA, & Dunsmoor JE (2021). Emotional learning retroactively enhances item memory but distorts source attribution. *Learning & Memory*.
- Hennings AC**, Bibb SA, Lewis-Peacock JA, Dunsmoor JE (2021). The effect of top-down thought suppression on fear extinction generalization. *Behavioural Brain Research*.
- McClay M, **Hennings AC**, Reidel A, & Dunsmoor JE (2020). The features that shape fear: How emotional intensity and threat relevance interact to guide fear learning. *Neuropsychologia*.

**Hennings AC**, McClay M, Lewis-Peacock JA, & Dunsmoor JE (2020). Contextual reinstatement promotes extinction generalization in healthy adults but not PTSD. *Neuropsychologia*.

Keller NE, **Hennings AC**, & Dunsmoor JE (2020). Behavioral and neural processes in counterconditioning: past and future directions. *Behaviour Research and Therapy*.

### **IN-PROGRESS MANUSCRIPTS**

Brooks PP\*, **Hennings AC**\*, Guzman BA, Norman KA<sup>^</sup>, & Ritchey M<sup>^</sup>. (*submitted*). Eye movements reveal the cognitive dynamics supporting successful memory suppression. <sup>^</sup>denotes equal contribution.

Cooper SE, Keller NE, Bauer EA, Lambert SR, **Hennings AC**, Azar AA, Bibb SA, Nemeroff CB, Cisler JM, Lewis-Peacock JA, & Dunsmoor JE. (*submitted*). Augmenting extinction with counterconditioning strengthens and sustains neural safety representations in PTSD.

Laing PAF, **Hennings AC**, Cooper SE, & Dunsmoor JE. (*submitted*). Emotional Learning Selectively Distorts the Temporal Organization of Memory: a Quantitative Synthesis.

**Hennings AC** & Norman KA. (*in prep*). Enhancing inhibitory control of memory via real-time fMRI neurofeedback.

Chandrasekhar D, **Hennings AC**, Niv Y, & Berwian I. (*in prep*). Selective maintenance of adverse events may explain conditioning phenomena attributed to fear generalization.

### **FELLOWSHIPS, HONORS, & AWARDS**

|             |  |
|-------------|--|
| 2025 –      | Individual NIH Postdoctoral Fellowship (NRSA) – F32 MH140486         |
| 2020 – 2022 | Individual NIH Predoctoral Fellowship (NRSA) – F31 MH124360          |
| 2020        | Graduate School Summer Fellowship, UT Austin                         |
| 2019        | Big Data in Neuroscience Workshop Trainee Travel Award, UM Ann Arbor |
| 2019        | Wisconsin Symposium on Emotion Trainee Travel Award, UW Madison      |
| 2018        | Office of Graduate Studies Professional Development Award, UT Austin |
| 2015        | Charles Center Summer Scholarship, W&M                               |
| 2013        | HHMI Freshman Research Award, W&M                                    |

### **SELECTED PRESENTATIONS AND INVITED TALKS**

Includes only items for which I was the presenting author.

Brooks PP\*, **Hennings AC**\*, Guzman BA, Norman KA<sup>^</sup>, & Ritchey M<sup>^</sup>. (2025). *Eye movements reveal the cognitive dynamics supporting successful memory suppression*. Talk presented at the Episodic Memory in Psychopathology workshop at the University of Oregon. <sup>^</sup>denotes equal contribution.

**Hennings AC**. (2025). *Cognitive and neural processes supporting successful memory suppression*. Invited talk presented at the Rutgers-Princeton Center for Computational Cognitive Neuro-Psychiatry Seminar. Recording: [https://mediacentral.princeton.edu/media/Augustin+C.+Hennings/1\\_7fggbani](https://mediacentral.princeton.edu/media/Augustin+C.+Hennings/1_7fggbani)

**Hennings AC**, Scotti PS, Kempner RP, Nguyen A, McDevitt E, Wallace G, Li K, Turk-Browne NB, Cohen JD, & Norman KA. (2024) *RT-Cloud: Cloud-Based Software Framework to Simplify and Standardize Real-time fMRI*. Poster presented at the Real-time Functional Imaging and Neurofeedback Meeting. Heidelberg, Germany.

**Hennings AC**, Bibb SA, Lewis-Peacock JA, & Dunsmoor JE (2024) *Contextual reinstatement of threat and safety resolves threat ambiguity in humans*. Poster presented at the Society for Biological Psychiatry. Austin, TX.

Brooks PP\*, **Hennings AC\***, Guzman BA, Norman KA<sup>^</sup>, Ritchey M<sup>^</sup> (2024) *Eye movements reveal the dynamics of memory reactivation supporting successful memory suppression*. Talk presented at the Manhattan Area Memory Meeting. New Haven, CT.

**Hennings AC**, Scotti PS, Kempner RP, Nguyen A, McDevitt E, Wallace G, Li K, Turk-Browne NB, Cohen JD, & Norman KA (2024) *Cloud-based software framework to simplify and standardize real-time fMRI*. Poster presented at the NIH BRAIN initiative conference. Bethesda, MD.

Brooks PP\*, **Hennings AC\***, Guzman BA, Norman KA<sup>^</sup>, Ritchey M<sup>^</sup> (2024) *Eye movements reveal the dynamics of memory reactivation supporting successful memory suppression*. Poster presented at the Context and Episodic Memory Symposium. Philadelphia, PA.

Scotti PS\*, **Hennings AC\***, Wallace G, Polcyn S, Brooks PP, Mennen A, Michelmann S, Li K, Turk-Browne NB, Cohen JD, & Norman KA (2023) *Cloud-based software framework to simplify and standardize real-time fMRI*. Poster presented at the NIH BRAIN initiative conference. Bethesda, MD.

Scotti PS, **Hennings AC**, & Norman KA. *Conducting studies with the realtime fMRI cloud framework (RT-cloud)* (2022). Workshop presented at the Real-time functional Imaging and neurofeedback meeting. New Haven, CT.

**Hennings AC**, Bibb SA, Lewis-Peacock JA, & Dunsmoor JE (2022) *Competition between contextual representations of threat and safety determines the success of extinction recall in humans*. Nanosymposium presentation given at the Society for Neuroscience Annual Meeting. San Diego, CA.

**Hennings AC**, Lewis-Peacock JA, & Dunsmoor JE (2021). *Emotional learning retroactively enhances item memory but distorts source attribution*. Poster presented at the Context and Episodic Memory Symposium. Philadelphia, PA.

**Hennings AC**, McClay M, Lewis-Peacock JA, & Dunsmoor JE (2020). *Dissociable reinstatement of emotional memories in the human PFC*. Talk presented at the UT Institute for Neuroscience Dialogues Series. Virtual.

**Hennings AC**, McClay M, Lewis-Peacock JA, & Dunsmoor JE (2020). *Dissociable reinstatement of emotional memories in the human PFC*. Poster presented at the Cognitive Neuroscience Society Meeting. Virtual.

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

**Hennings AC**, Lewis-Peacock JA, & Dunsmoor JE (2019). *Reinstatement of mental context facilitates retrieval of extinction memories*. Poster presented at the Cognitive Neuroscience Society Meeting. San Francisco, CA.

**Hennings AC**, Lewis-Peacock JA, & Dunsmoor JE (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 AC**, Lewis-Peacock JA, & Dunsmoor JE (2018). *Mental context reinstatement determines successful retrieval of extinction memories*. Poster presented at the Context and Episodic Memory Symposium, Philadelphia, PA.

**Hennings AC**, Lewis-Peacock JA, & Dunsmoor JE (2018). *Mental context reinstatement may underlie successful retrieval of extinction memories*. Poster presented at the Cognitive Neuroscience Meeting, Boston, MA.

**Hennings AC**, Jeanneret S, Dutcher A, Hollenbeck M, & Lewis-Peacock JA (2017). *Competition and forgetting during context-based episodic memory retrieval*. Poster presented at the Austin Conference on Learning and Memory, Austin, TX.

Barnet RC & **Hennings AC** (2016). *Light-enhanced startle sensitivity to acute nicotine withdrawal*. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA.

## **TEACHING, MENTORSHIP, & SERVICE**

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|--------------|---|
| 2022-        | Undergraduate research assistant supervisor, Princeton University<br>Senior thesis advisees: Ahlanna Olson, Shirley Xue<br>Trainees: Angel Toasakul                         |
| 2022, Fall   | NEU 511 <i>Current Issues in Neuroscience and Behavior</i><br>Graduate seminar class co-taught by post-docs   |
| 2016 – 2022  | Undergraduate research assistant supervisor, UT Austin<br>Trainees: Sophia Bibb, Stephanie Jeanneret, Swecha Ramireddy, Brandon Torio, Phillip Taboada                      |
| 2020, Spring | Teaching assistant, UT Austin<br>NEU 337 <i>Programming &amp; Data Analysis for Modern Neuroscience</i><br>Instructor: Dr. Marcel Goldschen-Ohm                             |
| 2017 – 2020  | Mentor for Neuroscience Undergraduate Research Program, UT Austin<br>Trainees include: Mahaly Baptise, Marissa Alvarez, Angelica Garcia, Alejandro Hipolito, Stephanie Root |
| 2017 – 2019  | Volunteer for Dell Medical School Health Sciences Summer Camp   |
| 2014 – 2016  | Undergraduate research assistant supervisor, W&M  |

## **EDITORIAL DUTIES AND PEER REVIEW**

**Ad hoc reviewer:** *Nature Human Behaviour; Emotion; Biological Psychiatry; Psychological Science; Journal of Neuroscience; Social Cognitive and Affective Neuroscience; Psychonomic Bulletin & Review; Behaviour Research and Therapy*