

## Publications

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### JOURNAL ARTICLES

1. Hilz, E. N., Agee, L. A., Jun, D., Monfils, M.-H., & Lee, H. J. (2023). Estrous cycle state-dependent renewal of appetitive behavior recruits unique patterns of arc mRNA in female rats. *Frontiers in Behavioral Neuroscience*, 17. <https://doi.org/10.3389/fnbeh.2023.1210631>
2. Raskin, M., Malone, C., Hilz, E. N., Smits, J. A. J., Telch, M. J., Otto, M. W., Shumake, J., Lee, H. J., & Monfils, M.-H. (2023). CO2 reactivity is associated with individual differences in appetitive extinction memory. *Physiology & Behavior*, 266, 114183. <https://doi.org/10.1016/j.physbeh.2023.114183>
3. Agee, L. A., Ortega, M. E., Lee, H. J., & Monfils, M.-H. (2023). Observing a trained demonstrator influences associative appetitive learning in rats. *Royal Society Open Science*, 10(4). <https://doi.org/10.1098/rsos.221224>
4. Agee, L. A., Hilz, E. N., Jun, D., Nemchek, V., Lee, H. J., & Monfils, M.-H. (2023). Patterns of arc mRNA expression in the rat brain following dual recall of fear- and reward-based socially acquired information. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-29609-6>
5. Hilz, E. N., & Lee, H. J. (2023). Estradiol and progesterone in female reward-learning, addiction, and therapeutic interventions. *Frontiers in Neuroendocrinology*, 68, 101043. <https://doi.org/10.1016/j.yfrne.2022.101043>
6. Monfils, M.-H., Lee, H. J., Cofresí, R. U., & Gonzales, R. A. (2022). Friend recollections, and a collection of collaborations with nadia. *Frontiers in Behavioral Neuroscience*, 16. <https://doi.org/10.3389/fnbeh.2022.954906>
7. Hilz, E. N., Olvera, M. E., Jun, D., Chadha, M., Gillette, R., Monfils, M.-H., Gore, A. C., & Lee, H. J. (2022). Hormonal contraceptives alter amphetamine place preference and responsivity in the intact female rat. *Behavioral Neuroscience*, 136(4), 318–329. <https://doi.org/10.1037/bne0000520>
8. Agee, L. A., Nemchek, V., Malone, C. A., Lee, H. J., & Monfils, M.-H. (2022). Appetitive behavior in the social transmission of food preference paradigm predicts activation of orexin-a producing neurons in a sex-dependent manner. *Neuroscience*, 481, 30–46. <https://doi.org/10.1016/j.neuroscience.2021.11.032>
9. Hilz, E. N., Lewis, S. M., Olshavsky, M. E., Khoury, E. S., Gore, A. C., Monfils, M. H., & Lee, H. J. (2022). Sex differences in conditioned orienting and the role of estradiol in addiction-related behaviors. *Behavioral Neuroscience*, 136(1), 19–29. <https://doi.org/10.1037/bne0000484>

### PREPRINTS

1. Agee, L. A., Hilz, E. N., Jun, D., Nemchek, V., Lee, H. J., & Monfils, M.-H. (2022). *Patterns of arc mRNA expression in the rat brain following dual recall of fear- and reward-based socially acquired information*. <https://doi.org/10.1101/2021.12.30.474464>
2. Hilz, E. N., Agee, L. A., Jun, D., Monfils, M. H., & Lee, H. J. (2021). *Expression patterns of arc mRNA after renewal of appetitive behavior in female rats*. <https://doi.org/10.1101/2021.07.20.453088>
3. Hilz, E. N., Olvera, M., Jun, D., Chadha, M., Gillette, R., Monfils, M.-H., Gore, A. C., & Lee, H. J. (2021). *Hormonal contraceptives alter amphetamine place preference and responsivity in the intact female rat*. <https://doi.org/10.1101/2021.07.28.454029>

### BOOKS

### BOOK CHAPTERS

## Professional Presentations

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### Individual and sex differences in Pavlovian cue processing: implications for attenuating drug-seeking behavior

SEOUL KOREA

2023

### Individual differences in reward processing: role of conditioned orienting and endogenous hormones

DEPARTMENT OF PSYCHOLOGY, MICHIGAN STATE UNIVERSITY

2022

## **Orienting phenotype as a rat model to study individual differences in reward processing**

NEUROSCIENCE PROGRAM STUDENT SEMINAR SERIES, THE UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER UT HEALTH  
GRADUATE SCHOOL OF BIOMEDICAL SCIENCES, HOUSTON TX

2022

## **Role of conditioned orienting and endogenous hormones in female drug-preference**

PAVLOVIAN SOCIETY MEETING. ANN ARBOR, MI

2021

## **Acquisition and extinction of conditioned responses to alcohol-associated cues in rats with a history of ethanol dependence.**

44TH ANNUAL RSA SCIENTIFIC MEETING/ISBRA CONGRESS, SAN ANTONIO, TX

2021

## **Individual differences in conditioned orienting: implications for substance abuse**

COLLOQUIUM TALK AT DEPARTMENT OF BIOLOGICAL SCIENCE, KUNKUK UNIVERSITY, SEOUL KOREA

2021

# **Conference Abstracts**

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## **Alcohol consumption and alcohol seeking behaviors in rats based on biological sex and environmental light condition**

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING, WASHINGTON, DC

2023

## **CO2 reactivity predicts fear expression after extinction and retrieval-extinction**

PAVLOVIAN SOCIETY MEETING, AUSTIN, TX

2023

## **CO2 reactivity predicts return of alcohol- seeking behavior after extinction but not retrieval-extinction.**

ANNUAL RSA SCIENTIFIC MEETING, BELLEVUE, WA

2023

## **Carbon dioxide reactivity predicts extinction memory to fear and alcohol cues in rats**

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING, WASHINGTON, DC

2023

## **Dose-dependent effects of oral hormonal contraceptives on female gonadal function and amphetamine extinction**

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING, WASHINGTON, DC

2023

## **Effects of oral hormonal contraceptives on amphetamine extinction learning in female rats.**

15TH ANNUAL BBC (BEHAVIOR, BIOLOGY, AND CHEMISTRY) MEETING, SAN ANTONIO, TX

2023

## **Extinction after memory retrieval reduces conditioned response to alcohol cues in male and female rats with a history of alcohol dependence.**

PAVLOVIAN SOCIETY MEETING, AUSTIN, TX

2023

## **Oral hormonal contraceptives affect female rat gonadal function and lead to reduced amphetamine-preference during extinction**

PAVLOVIAN SOCIETY MEETING, AUSTIN, TX

2023

## **Renewal of alcohol-seeking in males and female rats**

PAVLOVIAN SOCIETY MEETING, AUSTIN, TX

2023

## **Retrieval+Extinction prevents alcohol seeking behavior in female rat model of alcohol dependence**

15TH ANNUAL BBC (BEHAVIOR, BIOLOGY, AND CHEMISTRY) MEETING, SAN ANTONIO, TX

2023

## **Retrieval+Extinction prevents alcohol seeking behavior in female rat model of alcohol dependence.**

ANNUAL RSA SCIENTIFIC MEETING, BELLEVUE, WA

2023

## **Retrieval+extinction attenuates alcohol-seeking behavior in male and female rats previously exposed to chronic ethanol vapor**

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING, WASHINGTON, DC

2023

## **Sex Differences in the Renewal of alcohol-seeking rats**

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING, WASHINGTON, DC

2023

## CO2 reactivity predicts spontaneous recovery of conditioned food seeking in rats

PAVLOVIAN SOCIETY MEETING, MILWAUKEE, WI

2022

## Conditioned responses to cues associated with alcohol availability in rats with a history of ethanol dependence

PAVLOVIAN SOCIETY MEETING, MILWAUKEE, WI

2022

## Extinction after memory retrieval attenuates alcohol seeking behavior in rats previously exposed to chronic ethanol vapor

ANNAUL RSA SCIENTIFIC MEETING, ORLANDO, FL

2022

## Attenuation of alcohol seeking behavior via retrieval+extinction in a rat model of alcohol dependence.

PAVLOVIAN SOCIETY MEETING, ANN ARBOR, MI

2021

## Modulation of the estrous cycle by hormonal contraceptives influences amphetamine preference and dopamine activity in female rats.

BEHAVIOR, BIOLOGY, AND CHEMISTRY: TRANSLATIONAL RESEARCH IN ADDICTION, ZOOM

2021

## Orexin response to amphetamine in female rats with different cue-directed orienting behavior

PAVLOVIAN SOCIETY MEETING, ANN ARBOR, MI

2021

## Honors

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### Wendy Domjan Teaching Excellence Award

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2021

## Funding

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### Reducing alcohol-seeking behavior in a rat model of alcohol dependence

FUNDING: \$1,250,000

NIH,

2022 - 2027

### Influence of shared experience on relational dynamics and vicarious learning

FUNDING: \$800,000

Directorate for Social, Behavioral &  
Economic Sciences, 2141102

2022 - 2025

### Sex hormones and substance abuse treatment in females

FUNDING: \$20,050

COLA Ransom Faculty Fellows  
research award,

2022 - 2024

### Reducing alcohol-seeking behavior with retrieval+extinction

FUNDING: \$10,000

UT VPR Research and Creative  
Grant,

2019 - 2021

### Diambiguating networks and factors that promote social transmission of information in rats

FUNDING:

NSF,

2018 - 2021

## Service

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### Executive committee

MEMBER

Austin, US

2023 - present

### Alcohol Training Grants T32 Executive Committee

MEMBER

Austin, US

2023 - present

### The University of Texas at Austin

FACULTY CLIMATE LIAISON

Austin, US

2021 - present

<b>The University of Texas at Austin</b> GRADUATE STUDENT FELLOWSHIP COMMITTEE	Austin, US 2016 - present
<b>VPR</b> RESEARCH AND CREATIVE GRANT REVIEWER	Austin, US 2022 - 2023
<b>The University of Texas at Austin</b> DIVERSITY COMMITTEE CHAIR	Austin, US 2020 - 2023
<b>COLA URAP (Undergraduate Research Apprenticeship Program)</b> FACULTY ADVISOR	Austin, US 2022 - 2022
<b>Office of Undergraduate Research</b> URF GRANT REVIEWER	Austin, US 2022 - 2022
<b>The University of Texas at Austin</b> GRANT/FELLOWSHIP MOCK REVIEW PANEL	Austin, US 2020 - 2022
<b>The University of Texas at Austin</b> AREA HEAD	Austin, US 2018 - 2022

## Mentoring and Teaching

### MENTORING

<b>Ga Hyun Kim</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - present
<b>Anagha Deshpande</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - present
<b>William Peters</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - present
<b>Payton Antonacci</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - present
<b>Aihan Nguyen</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - present
<b>Rashi Agarwal</b> RESEARCH ADVISOR (UNDERGRADUATE)	2022 - present
<b>Ren Daley</b> RESEARCH ADVISOR (UNDERGRADUATE)	2022 - present
<b>Hunter Kerrigan</b> RESEARCH ADVISOR (UNDERGRADUATE)	2022 - present
<b>Adriana Vasquez</b> PHD ADVISOR	2022 - present
<b>Heba Ajmal</b> RESEARCH ADVISOR (UNDERGRADUATE)	2022 - present
<b>Taylor Simmons</b> PHD ADVISOR	2022 - present
<b>Marcelle Olvera</b> PHD ADVISOR	2020 - present
<b>Danny Morgan</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - 2023
<b>Aihan Nguyen</b> RESEARCH ADVISOR (UNDERGRADUATE)	2023 - 2023

<b>Aditi Patel</b>	
UNDERGRADUATE RESEARCH ADVISOR	2022 - 2023
<b>Emily Breach</b>	
RESEARCH ADVISOR (UNDERGRADUATE)	2022 - 2023
<b>Taylor Knight</b>	
HONORS THESIS ADVISOR	2021 - 2022
<b>Taylor Simmons</b>	
SURE AND RESEARCH ADVISOR	2020 - 2022
<b>Alexander Ekpo-Otu</b>	
RESEARCH ADVISOR (HIGH SCHOOL STUDENT)	2021 - 2021
<b>Megha Chadha</b>	
RESEARCH ADVISOR	2020 - 2021
<b>Kevin Kim</b>	
HONORS THESIS ADVISOR	2020 - 2021
<b>Sarah Jun</b>	
RESEARCH ADVISOR	2019 - 2021
<b>Emily Hilz</b>	
PHD ADVISOR	2016 - 2021

TEACHING

<b>PSY359H, Honors Research I</b>	
INSTRUCTOR	2023 - 2023
<b>PSY373N, Neurobiology of Attention</b>	
INSTRUCTOR	2023 - 2023
<b>PSY308, Biopsychology</b>	
INSTRUCTOR	2022 - 2022
<b>PSY359H, Honors Research</b>	
INSTRUCTOR	2021 - 2022
<b>PSY 353K, Psychopharmacology</b>	
INSTRUCTOR	2020 - 2021
<b>PSY 373N, Neurobiology of Attention</b>	
INSTRUCTOR	2020 - 2021