

# Heather D. Lucas, PhD

---

Department of Psychology  
210 Audubon Hall  
Louisiana State University  
Baton Rouge, IL 70803  
Email: hlucas2@lsu.edu

Lab Website:

<https://faculty.lsu.edu/bamlab/>

---

## EDUCATION

- 2012      Ph.D. in Psychology, Northwestern University  
Brain, Behavior, and Cognition Program  
Advisor: Ken A. Paller
- 2009      M.S. in Psychology, Northwestern University  
Brain, Behavior, and Cognition Program  
Advisor: Ken A. Paller
- 2005      B.A., Duke University  
Majors: Psychology & English  
Minor: Computer Science

## ACADEMIC EMPLOYMENT

- 2017-present    Assistant Professor  
Department of Psychology  
Louisiana State University
- 2015-2017      Postdoctoral Research Associate  
Beckman Institute for Advanced Science and Technology  
University of Illinois at Urbana-Champaign  
Advisor: Neal J. Cohen
- 2012-2015      Beckman Institute Postdoctoral Fellow  
Beckman Institute for Advanced Science and Technology  
University of Illinois at Urbana-Champaign  
Independent Postdoctoral Appointment

## **ACADEMIC AND PROFESSIONAL HONORS, AWARDS, AND FELLOWSHIPS**

- 2012-2015 Beckman Institute for Advanced Science and Technology  
Postdoctoral Fellowship Award
- 2010-2012 Training Grant Recipient, Northwestern Training Program in the  
Neuroscience of Human Cognition (T32 NS047987)
- 2010 Scholarship to attend the UC-Davis ERP Boot Camp
- 2008 National Science Foundation Graduate Research Fellowship  
Honorable Mention
- 2007 National Science Foundation Graduate Research Fellowship  
Honorable Mention
- 2006-2007 Cognitive Science Graduate Research Fellowship, Northwestern  
University

## **GRANT FUNDING**

### ***Extramural***

- National Science Foundation 2023 - 2026  
*A Multi-modal Investigating of Spatial Reasoning and Training in  
Undergraduate Education*  
Role: Co-Principal Investigator  
Principal Investigator: Dr. Melissa Beck (LSU)  
Total Costs: \$1,076,514
- Louisiana Board of Regents 2020 - 2024  
*Interplay between memory and information sampling across the adult  
lifespan*  
Role: Principal Investigator  
Total Costs: \$139,410
- Southern Educational Conference Faculty Travel Grant 2019 - 2020  
*Deficits in creative language use following acquired medial temporal lobe  
damage: Insights from the Vanderbilt Brain Injury Patient Registry*  
Role: Principal Investigator  
Total Costs: \$1,000

### ***Intramural***

LSU Provost Fund for Research Innovation <i>Can feedback-modulated brain stimulation enhance attention?</i> Role: Co-investigator Principal Investigator: Dr. Marcio de Queiroz (LSU) Total Costs: \$75,000	2022 - 2024
LSU Humanities & Social Sciences Instructional Impact Grant <i>Brain Science Speaker Series</i> Role: Co-investigator Principal Investigator: Dr. Melissa Beck (LSU) Total Costs: \$18,727	2018 - 2019
LSU Office of Research and Economic Development Faculty Travel Grant Role: Principal Investigator Total Costs: \$750	2018
LSU Manship Summer Research Grant <i>A causal role of the hippocampus in conceptual combination</i> Role: Principal Investigator Total Costs: \$5000	2018

### **MANUSCRIPTS UNDER REVIEW/REVISION OR IN PREPARATION**

\* graduate student trainee; \*\* undergraduate student trainee

Chaisson, F.C.\*, Cox, C.R., Alford, A.M.\*\*, Burleigh, L.M.\*, Greening, S.G., **Lucas, H.D.** (under revision). Reduced semantic organization of memories formed under threat of shock.

Cairney, B.E.\*, West, S.W.\*, Haebig, E., **Lucas, H.D.** (submitted). Iconic gestures form conceptual pegs: Evidence from electrophysiology and associative memory

Chaisson, F.M.\*, **Lucas, H.D.** (in preparation). Acute anxiety impacts ERP correlates of memory formation.

Cairney, B.E.\*, Sykes, J.R.\*, Knieper, A.\*\*, **Lucas, H.D.**, & Haebig, E. (in preparation). Relations among confidence, feedback, and associative memory in adults

### **PEER-REVIEWED PUBLICATIONS**

\* graduate student trainee; \*\* undergraduate student trainee

Cairney, B.E.\*, West, S.H.\*, Haebig, E., Cox, C.R., **Lucas, H.D.** (2023). Interpretations of meaningful and ambiguous hand gestures in autistic and non-autistic adults: A norming study. *Behavior Research Methods*. 1-14. doi: 10.3758/s13428-023-02268-1

**Lucas, H.D.**, Daugherty, A.M., McAuley, E., Kramer, A.F., Cohen, N.J. (2023). Dynamic interactions between memory and viewing behaviors: Insights from dyadic modeling of eye movements. *Journal of Experimental Psychology: Human Perception and Performance*, 49(6), 786–801.

Saltzman, S.M.\* Moen, K.C.\*, Eich, B.J.\* Chaisson, F.M.\*, Fan, G., Goldstein, R.R., Beck, M.R., **Lucas, H.D.** (2023). Behavioral and electrophysiological evidence for the flexible recruitment of feature- and object-based processing in visual working memory comparison. *Biological Psychology*, 78, 108528

Le, T.P.\*, **Lucas, H.D.**, Schwartz, E.K., Mitchell, K.R., & Cohen, A.S. (2020). Frontal alpha asymmetry in schizotypy: Electrophysiological evidence for motivational dysfunction. *Cognitive Neuropsychiatry*, 25(5), 371-386.

**Lucas, H.D.**, Gupta, R.S.\*\*, Hubbard, R.J., & Federmeier, K.D. (2019). Adult age differences in the use of conceptual combination as an associative encoding strategy. *Frontiers in Human Neuroscience*, 13, 339.

**Lucas, H.D.**, Creery, J.D., Hu, X., & Paller, K.A. (2019). Grappling with implicit social bias: A perspective from memory research. *Neuroscience*, 406, 684-697.

**Lucas, H.D.**, Duff, M.C., & Cohen, N.J. (2019). The hippocampus promotes effective saccadic information gathering in humans. *Journal of Cognitive Neuroscience*, 31(2), 186-201.

Horecka, K.M., Dulas, M. R., Schwarb, H., **Lucas, H.D.**, Duff, M.C., & Cohen, N.J. (2018). Reconstructing relational information. *Hippocampus*, 28(2), 164–177.

Rubin, R.D., Schwarb, H., **Lucas, H.D.**, Dulas, M.R., & Cohen, N.J. (2017). Dynamic hippocampal and prefrontal contributions to memory processes and representations blur the boundaries of traditional cognitive domains. *Brain Sciences*, 7(7), 82.

**Lucas, H.D.**, Hubbard, R.J., & Federmeier, K.D. (2017). Flexible conceptual combination: Electrophysiological correlates and consequences for associative memory. *Psychophysiology*, 54(6), 833-847.

**Lucas, H.D.**, Monti, J.M., McAuley, E., Watson, P.D., Kramer, A.F., & Cohen, N.J. (2016). Relational memory and self-efficacy measures reveal distinct profiles of subjective memory concerns in older adults. *Neuropsychology*, 30(5), 568-578.

Xiao, X., **Lucas, H.D.**, Paller, K.A., Ding, J.H., & Guo, C.Y. (2014). Retrieval Intention Modulates the Effects of Directed Forgetting Instructions on Recollection. *PloS One*, 9(8), e104701.

**Lucas, H.D.**, & Paller, K.A. (2013). Manipulating letter fluency for words alters electrophysiological correlates of recognition memory. *NeuroImage*, 83, 849-861.

Paller, K.A., **Lucas, H.D.**, & Voss, J.L. (2012). Assuming too much from 'familiar' brain potentials. *Trends in Cognitive Sciences*, 16(6), 313-315.

**Lucas, H.D.**, Taylor, J.R., Henson, R.N. & Paller, K.A. (2012). Many roads lead to recognition: Electrophysiological correlates of familiarity derived from short-term masked repetition priming. *Neuropsychologia*, 50(13), 3041-3052.

Voss, J.L., **Lucas, H.D.**, & Paller, K.A. (2012). More than a feeling: Pervasive influences of memory without awareness of retrieval. *Cognitive Neuroscience*, 3, 193-207.

\*\*\* With nine commentaries and our reply to the commentaries:

**Lucas, H.D.**, Paller, K.A., & Voss, J.L. (2012). On the pervasive influences of implicit memory. *Cognitive Neuroscience*, 3(3-4), 219-226.

**Lucas, H.D.**, Chiao, J.Y. & Paller, K.A. (2011). Why some faces won't be remembered: Brain potentials illuminate successful versus unsuccessful encoding for same-race and other-race faces. *Frontiers in Human Neuroscience*, 5, doi: 10.3389/fnhum.2011.00020.

**Lucas, H.D.**, Voss, J.L., & Paller, K.A. (2010). Familiarity or conceptual priming: Good question! Comment on Stenberg, Hellman, Johansson, and Rosen. *Journal of Cognitive Neuroscience*, 22(4), 615-617.

Voss, J.L., **Lucas, H.D.**, & Paller, K.A. (2010). Conceptual priming and familiarity: Two different expressions of memory during recognition testing with distinct neurophysiological correlates. *Journal of Cognitive Neuroscience*, 22(10), 2638-2651.

## BOOK CHAPTERS

**Lucas, H.D.**, Sanchez, D., Creery, J.D., Hu, X., & Paller, K.A. (2021). Changing hearts and minds to grow compassion: Syndrome C. In I. Fried, A. Berthoz, & G. Mirdal (Eds.), *The Brains that Pull the Triggers: Syndrome E* (pp. 435463). New York: Odile Jacob Publishers.

## CONFERENCE PRESENTATIONS

\* graduate student trainee; \*\* undergraduate student trainee

Kindell, C.A.\*, **Lucas, H.D.** (2024, April). Hidden Markov modeling of viewing behaviors reveals discrete “encoding states” during visuospatial memory formation. *Poster accepted for the annual meeting of the Cognitive Neuroscience Society, Toronto, Canada.*

Cairney, B.E.\*, West, S.W.\*, Haebig, E., **Lucas, H.D.** (2024, April). Iconic gestures from “conceptual pegs”: Behavioral and ERP evidence. *Poster accepted for the annual meeting of the Cognitive Neuroscience Society, Toronto, Canada.*  
**\*\*\* selected for additional presentation as a Data Blitz talk**

Chaisson, F.C.\*, Cox, C.R., Alford, A.M\*\*, **Lucas, H.D.**, Cox, C.R. (2024, April). Semantic clustering and semantic path length: Two measures of free recall organization with different functional properties. *Poster accepted for the annual meeting of the Cognitive Neuroscience Society, Toronto, Canada.*

**Lucas, H.D.**, Cairney, B.E.\*, West, S.W.\*, Haebig, E. (2023, October). Gesture as concreteness enhancers: Evidence from ERPs and associative memory. *Slide presentation given at the ARMADILLO Cognition and Cognitive Neuroscience Southwest Regional Conference. San Marcos, TX*

Cairney, B.E.\*, West, S.W.\*, Haebig, E., **Lucas, H.D.** (2023, September). Meaningful co-speech gestures enhance associative memory formation, but only when the listener expects them to be meaningful. *Poster Presented at the annual meeting of the Society for Psychophysiological Research. New Orleans, LA*

Kindell, C.A.\*, **Lucas, H.D.** (2023, September). Tracking encoding dynamics via multi-state modeling of eye movements. *Poster Presented at the annual meeting of the Society for Psychophysiological Research. New Orleans, LA*

Kindell, C.A.\*, **Lucas, H.D.** (2022, November). Divided attention decreases the amount, but not the effectiveness, of saccadic exploration during memory encoding. *Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.*

Alford, A.\*\*, Chaisson, F.M.\*, **Lucas, H.D.** (2022, March). An investigation of the effects of acute stress on elaborative encoding strategies. *Poster Presented at the annual meeting of the Society for Affective Science, virtual format.*

Saltzman, S.M.\*, Moen, K.C.\*, Eich, B.J.\*, Chaisson, F.M.\*, Fan, G., Goldstein, R.R., Beck, M.R., **Lucas, H.D.** (2022, May). Neural correlates of task-irrelevant feature processing in visual working memory. *Poster Presented at the annual meeting of Vision Science Society, St. Pete Beach, FL.*

Cairney, B.E.\*, West, S.H.\*, **Lucas, H.D.** (2022, June). Iconic gestures lend concreteness to novel word pairs: Evidence from mental imagery and memory tasks. *Slide presentation at the International Max Planck Research School for Language Sciences, Nijmegen, the Netherlands.*

Cairney, B.E.\*, West, S.H.\*, Haebig, E., **Lucas, H.D.** (2022, April). Electrophysiology reveals complex effects of gesture on memory for paired associates. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

Chaisson, F.M.\* Cox, C.R., Alford, A.\*\*, **Lucas, H.D.** (2022, April). Acute anxiety reduces behavioral and electrophysiological measures of semantic processing during memory formation. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

**Lucas, H.D.**, Hobbs, K.E.\*\*, Cairney, B.E.\*, & (2021, November). It's how you look at it: Differences in visual exploration behaviors during item and relational memory tasks. *Slide presentation given at the annual meeting of the Psychonomic Society, virtual format.*

**Lucas, H.D.**, Daugherty, A.M., & Cohen, N.C. (2021, October). Dynamic interactions between memory and eye movements: A structural equation model approach. *Slide presentation given at the annual meeting of the ARMADILLO Conference for Cognition and Cognitive Neuroscience, virtual format.*

Cairney, B.E.\*, West, S.H.\*\*, Haebig, E. & **Lucas, H.D.** (2021, August). Interpretations of meaningful and ambiguous gestures in individuals with and without Autism Spectrum Disorder. *Poster presented at the annual meeting of the Cognitive Science Society, virtual format.*

Chaisson, F.M.\*, Burleigh, L.M.\*, Greening, S.G., & **Lucas, H.D.** (2021, October). Learning under stress: Electrophysiological evidence that acute stress impairs strategic encoding processes. *Poster submitted to the annual meeting of the Society for Psychophysiological Research, virtual format.*

Cairney, B.E.\*, West, S.H.\*\*, & **Lucas, H.D.** (2021, March). Interpretation of familiar and novel gestures in Autism Spectrum Disorder: Insights from an open science database. *Slide presentation given at the annual meeting of the Southwestern Psychological Association, virtual format.*

Chaisson, F.M.\*, Burleigh, L.M.\*, Greening, S.G., & **Lucas, H.D.** (2021, April). Distinct effects of acute anxiety on memory and metamemory. *Slide presentation given at the annual meeting of the Southwestern Psychological Association, virtual format.*

Cairney, B.E.\*, West, S.H.\*\*, & **Lucas, H.D.** (2020, April). Iconic gestures enhance mental imagery and facilitate associative memory. *Poster and slide presentation given at the annual meeting of the Southwestern Psychological Association, virtual format.*  
**\*\*\* 2020 SEPA Graduate Student Research Award winner**

West, S.H.\*\*, Cairney, B.E.\*, & **Lucas, H.D.** (2020, March). An ERP study of the beneficial effects of gesture on associative memory formation. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, virtual format.*

Duncan, E.S., Nakkawita, S.\*, **Lucas, H.D.**, Carmichael, O.T., & de Queiroz, M. (2020, March). Effects of transcranial direct current stimulation (tDCS) on operator vigilance: A double-blind, sham-controlled Study. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, virtual format.*

Chaisson, F.M.\*, Burleigh, L.M.\*, Greening, S.G., & **Lucas, H.D.** (2020, March). An ERP investigation of the effects of acute stress on memory formation and judgments of learning. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, virtual format.*

Chaisson, F.M.\*, Burleigh, L.M.\*, Greening, S.G., & **Lucas, H.D.** (2019, October). Acute anxiety impairs memory formation but does not influence judgments of learning. *Poster presented at the annual meeting of the ARMADILLO Conference for Cognition and Cognitive Neuroscience, San Antonio, TX.*

Cairney, B.E.\*, West, S.H.\*\*, & **Lucas, H.D.** (2019, October). Iconic gestures, but not beat gestures, facilitate memory for novel associations. *Poster presented at the annual meeting of the ARMADILLO Conference for Cognition and Cognitive Neuroscience, San Antonio, TX.*

**Lucas, H.D.**, Goel, M., Federmeier, K.D., Duff, M.C., & Cohen, N.C. (2018, October). Hippocampal amnesia impairs the creative use of language. *Slide presentation given at the annual meeting of the ARMADILLO Conference for Cognition and Cognitive Neuroscience, Houston, TX.*



**Lucas, H.D.**, Duff, M.C., & Cohen, N.C. (2018, March). Hippocampal contributions to conceptual combination. *Slide presentation given at the annual meeting of the Society for Neuroscience of Creativity, Boston, MA.*

**Lucas, H.D.**, Duff, M.C., & Cohen, N.C. (2018, March). Hippocampal damage impairs creativity in conceptual combination. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.*

Le, T.P.\*, **Lucas, H.D.**, Mitchell, K.R., Schwartz, E.K., & Cohen, A.S. (2017, September). Frontal Asymmetry in Schizophrenia. *Poster presented at the annual meeting of the Society for Research in Psychopathology, Denver, CO.*

**Lucas, H.D.**, Duff, M.C., Cohen, N.C. (2017, March). The hippocampus promotes effective saccadic information-gathering in humans. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

**\*\*\* selected for additional presentation as a Data Blitz talk**

**Lucas, H.D.**, Gupta, R.S., Hubbard, R.J., & Federmeier, K.D. (2016, April). An ERP study of adult age differences in the use of self-directed conceptual combination to construct unitized memory representations. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.*

**Lucas, H.D.**, Watson, P.D., Monti, J.M., McAuley, E., Kramer, A.F., & Cohen, N.J. (2015, October). Scanpath entropy at study predicts subsequent spatial reconstruction accuracy. *Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.*

**Lucas, H.D.**, Watson, P.D., Monti, J.M., McAuley, E., Kramer, A.F., & Cohen, N.J. (2015, March). Subjective memory complaints in older adults are associated with relational memory errors in spatial reconstruction. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

**Lucas, H.D.**, Hubbard, R.J., Abusager, K.A., & Federmeier, K.D. (2014, November). An ERP investigation of the formation of unitized memory representations of arbitrary word pairs. *Poster presented at the annual meeting of the Society for Neuroscience, Washington DC.*

**Lucas, H.D.**, & Paller, K.A. (2012, April). Familiarity memory is multiply determined: Evidence from electrophysiological analyses of letter fluency. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, Chicago, IL.*

**Lucas, H.D.**, & Paller, K.A. (2011, April). Many processes lead to recognition: Electrophysiological correlates of familiarity derived from short-term masked repetition. *Slide presentation given at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

**Lucas, H.D.**, Taylor, J.R., Henson, R.N.A., & Paller, K.A. (2010, April). Neural correlates of word repetition, processing fluency, and recognition memory. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Canada.*

Morrison, R.G., **Lucas, H.D.**, Florczak, S.M., James, M., Wingo, J.M., & Paller, K.A. (2010, April). Brain potentials reflect changes in memory with age. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Canada.*

**Lucas, H.D.**, Chiao, J.Y., & Paller, K.A. (2009, October). Electrophysiological correlates of objective and subjective encoding success for same- and other-race faces. *Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.*

**Lucas, H.D.**, Chiao, J.Y., & Paller, K.A. (2009, March). Neural correlates of face memory as a function of race-based attention and categorization. *Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

**Lucas, H.D.**, Voss, J.L., & Paller, K.A. (2007, June). Characterizing neural correlates of familiarity and conceptual priming. *Poster presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.*

**Lucas, H.D.**, & Schmajuk, N.A. (2004, November). Applications of a neural network model to serial-order discrimination. *Poster presented at the annual Triangle Undergraduate Research Symposium, Raleigh, NC.*

## **INVITED ADDRESSES**

2022            Plenary Address, National Association of State Judicial Educators  
Title: *Learning While Aging: The cognitive neuroscience of lifelong learning*

2019            Tulane University Department of Psychology Colloquium  
Title: *When passive study is not passive: Interactions between saccadic exploration and memory formation*

2016            Flash Talk Speaker, Society for Psychophysiological Research

Title: *Neural measures of flexible conceptual combination and its consequences for associative memory*

- 2015 Beckman Institute Director's Seminar  
Title: *The monitoring and strategic control of memory representations in younger and older adults*
- 2015 Beckman Institute Language Processing Brown Bag  
Title: *Compositional language, aging, and the strategic control of memory representations*
- 2014 University of Illinois Integrative Immunology and Behavior Seminar Title:  
*Cognitive and psychosocial correlates of subjective memory concerns in older adults: Implications for Alzheimer's disease prevention*
- 2012 University of Illinois Department of Psychology Cognitive Brown Bag  
Title: *Deconstructing recognition memory: Brain potentials reveal contributions of fluency to familiarity experiences*
- 2011 Northwestern University Cognitive Brain Mapping Group  
Title: *Many processes lead to recognition: Electrophysiological correlates of familiarity derived from short-term masked repetition*

## TEACHING AND MENTORSHIP

**Cognition (PSYC 3030, Louisiana State University).** Mid-division Psychology course focused on broad topics in cognition, including attention, perception, memory, language, and decision-making.

Fall 2017	3030-1 (41 students)	Mean Evaluation: 4.6/5
Fall 2017	3030-2 (74 students)	Mean Evaluation: 4.5/5
Spring 2018	3030-1 (48 students)	Mean Evaluation: 4.6/5
Fall 2018	3030-1 (60 students)	Mean Evaluation: 4.7/5
Spring 2019	3030-2 (40 students)	Mean Evaluation: 4.7/5
Spring 2020	3030-1 (60 students)	Mean Evaluation: 4.7/5
Fall 2021	3030-1 (59 students)	Mean Evaluation: 4.6/5
Fall 2022	3030-1 (51 students)	Mean Evaluation: 4.8/5
Fall 2023	3030-1 (68 students)	Mean Evaluation: 4.8/5
Fall 2023	3030-2 (68 students)	Mean Evaluation: 4.6/5

**Cognitive Neuroscience (PSYC 4041, Louisiana State University).** Upper-division Psychology course focused on the neural basis of cognition.

Fall 2019	4041-1 (20 students)	Mean Evaluation: 4.8/5
-----------	----------------------	------------------------

Fall 2019	4041-2 (34 students)	Mean Evaluation: 4.9/5
Fall 2021	4041-1 (48 students)	Mean Evaluation: 4.8/5
Fall 2022	4041-1 (57 students)	Mean Evaluation: 4.6/5
Spring 2023	4041-1 (53 students)	Mean Evaluation: 4.7/5

**Methodology and Research Design (PSYC 7117, Louisiana State University).** Graduate course covering a range of advanced topics related to the scientific approach to Psychological research questions.

Spring 2018	7117-1 (08 students)	Mean Evaluation: 4.6/5
Spring 2019	7117-1 (21 students)	Mean Evaluation: 4.5/5
Spring 2020	7117-1 (16 students)	Mean Evaluation: 4.7/5
Spring 2022	7117-1 (13 students)	Mean Evaluation: 4.6/5
Spring 2023	7117-1 (21 students)	Mean Evaluation: 4.9/5

**Cognitive Electrophysiology (PSYC 7938, Louisiana State University).** Graduate seminar in on the theory and practice of using recordings of electrical activity in the brain to study cognition and behavior, focusing on the event-related potential (ERP) method. Students gain substantial hands-on experience collecting, analyzing, and interpreting ERP data.

Fall 2018	7938-1 (13 students)	Mean Evaluation: 4.6/5
Spring 2022	7939-1 (09 students)	Mean Evaluation: 4.8/5

**PSYC 2999/4999 (Louisiana State University).** Undergraduate “research experience” courses with standard A-F grading.

*\*recipient of Distinguished Undergraduate Researcher Award*

Amber Alford	(2999, 2019-2021)
Cody Capps	(4999, 2019-2020)
Cristen Cooper	(2999, 2019-2020)
Meghan Garcelon	(2999, 2024 – present)
Collean Hebert	(2999, 2018-2019)
Kara Hobbs	(2999, 2019-2021)
Alena Knieper	(2999, 2023 – present)
Andrew Leaber	(2999, 2024 – present)
Brooke Montgomery	(2999, spring 2021)
Z (Lila) Rigamer	(4999, 2022 – 2023)
Blake Roussel	(2999, spring 2018)
Rebecca Wallace	(4999, 2018-2019)
Laurel Walther	(4999, 2024 – present)
Stan West	(2999/4999, 2018-2020)
Adrienne Wyble*	(4999, 2021-2023)

### **Doctoral Students Supervised**

Chloe Kindell, Louisiana State University	2021 – present
Brianna Cairney, Louisiana State University <u>*** 2019 NSF GRFP Honorable Mention Recipient</u>	2018 – present
Felicia Chaisson, Louisiana State University <u>*** 2020 NSF GRFP Recipient</u>	2018 – present

### **Doctoral Advisory Committees**

Brandon Eich, Louisiana State University	2023 – present
Stephanie Saltzmann, Louisiana State University	2022 – 2023
Vincent Medina, Louisiana State University	2021 – 2023
Heather Bruett, University of Pittsburgh	2020 – 2021
Sunghyun Kim, Louisiana State University	2018 – 2020

### **General Exam Committees.**

Brandon Eich, Louisiana State University	2023
Stephanie Saltzmann, Louisiana State University	2022
Vincent Medina, Louisiana State University	2021 – 2022
Sunghyun Kim, Louisiana State University	2018 – 2020

### **Master's Thesis Committees**

David Tomshe, Louisiana State University	2023 - present
Lauren Schiro, Louisiana State University	2023 – present
Capprielle Priola, Louisiana State University	2023 – 2024
Alex Lawriw, Louisiana State University	2023 – 2024
Rachel Evans, Louisiana State University	2022 – 2023
Brandon Eich, Louisiana State University	2020 – 2021
David Browning, Louisiana State University	2020
Taylor Fedechko, Louisiana State University	2017 – 2019

### **Dean's Representative Service**

Rebecca Riccardi, Louisiana State University	2021 – 2023
Carlos Enrique Santelli, Louisiana State University	2022 – 2023
Edward Austin, Louisiana State University	2020
Mistie Perry, Louisiana State University	2019

### **Undergraduate Honors Theses Supervised**

Laurel Walther, Louisiana State University <i>The effects of inter-item similarity on study-phase viewing behaviors and memory for spatial locations</i>	2024 – present
---	----------------

- Z (Lila) Rigamer, Louisiana State University 2022 – 2023  
*Where so we focus? Self-regulated learning strategies in encoding unfamiliar faces.*
- Kara Hobbs, Louisiana State University 2020 – 2021  
*The functional role of eye movements during the formation of relational and item memories*
- Rebecca Wallace, Louisiana State University 2018 – 2019  
*The effects of threat-evoked anxiety on visuospatial memory*
- Mahima Goel, University of Illinois Urbana-Champaign 2016 – 2017  
*The role of the hippocampus in conceptual combination*
- Resh Gupta, University of Illinois Urbana-Champaign 2014 – 2025  
*The effects of unitization on associative memory in young and older adults*  
\*\*\* Awarded the Michael Coles Cognitive Neuroscience Division undergraduate thesis award

### **McNair Scholars Supervised**

- Amber Alford, Louisiana State University 2020 – present  
*The effects of acute stress on learners' use of effective study strategies* \*\*\*  
Awarded an LSU Discover Grant for the fall 2020 and spring 2021 semesters

### **ASPIRE Students Supervised**

- Stan West, Louisiana State University 2019 – 2020  
*An ERP study of the beneficial effects of gesture on associative memory formation*

### **LSU Presidential Future Leaders in Research Students Supervised**

- Benjamin Klein 2021 – 2022

### **LSU Explorers Research Program Students Supervised**

- Ethan Rogers 2022 – 2023

### **Teaching Assistantships (Northwestern University, 2007-2012)**

- |                            |                         |
|----------------------------|-------------------------|
| Senior Honors Seminar      | (300 level, two terms)  |
| Research Methods           | (200 level, one term)   |
| Introduction to Psychology | (100 level, four terms) |

Psychopathology	(300 level, one term)
Developmental Psychology	(200 level, one term)

## **GRANT REVIEWING**

2022 NSF, Grant Review Panel member, BCS division  
2019 NSF, EHR Core Research (ECR) Panel, ad hoc review  
2012 NSF, Perception, Action, and Cognition Panel, ad hoc review

## **AD HOC JOURNAL REVIEWING**

Acta Psychologica  
Aging, Neuropsychology, and Cognition  
Biological Psychology  
Brain and Cognition  
Brain Research  
Cerebral Cortex  
Cognition  
Cognitive, Affective, and Behavioral Neuroscience  
Consciousness & Cognition  
Developmental Science  
Experimental Brain Research  
Experimental Aging Research  
Frontiers in Human Neuroscience  
Hippocampus  
International Journal of Psychophysiology  
Journal of Cognitive Neuroscience  
Journal of Experimental Psychology: Learning, Memory, and Cognition  
Journal of Neuroscience  
Learning & Memory  
Memory & Cognition  
Neurobiology of Aging  
Neurobiology of Learning and Memory  
NeuroImage  
Neuropsychologia  
Neuropsychology  
PLOS One  
Psychophysiology  
Scientific Reports  
Social, Cognitive, and Affective Neuroscience

## **PROFESSIONAL SERVICE AND OUTREACH**

last updated 5/13/2024

- 2023 – pres Faculty Advisor for Synapse LSU (undergraduate interdisciplinary neuroscience club)
- 2021 – pres Member of the Education and Training Committee of the Society for Psychophysiological Research (SPR)
- 2021 – pres Undergraduate Advising Committee Member for the Department of Psychology
- 2017 – pres LSU MIND Executive Committee Member. Initiative to develop an Interdisciplinary Neuroscience Institute at LSU.
- 2021 – 2023 Workgroup Head for the Committee for Diversity in Psychology (CDOP) Workgroup “Recruiting and Retaining Diverse Students and Faculty”
- 2018 – 2023 Steering Committee Member for the Committee for Diversity in Psychology (CDOP)
- 2022 – 2023 Search committee member for Cognitive & Brain Sciences faculty search
- 2021, 2023 Application reviews for LSU DISCOVER undergraduate research program
- 2021 Session chair for the “Recognition Memory 1” Spoken Session at the 2021 meeting of the Psychonomic Society, virtual format
- 2021 Acting Area Head for the Cognitive and Brain Sciences program for the spring 2022 semester
- 2020 – 2021 Search committee member and Diversity Advocate for Cognitive & Brain Sciences faculty search
- 2019 Panelist for LSU MIND’s Women in Neuroscience: A Film Screening & Panel Discussion
- 2013-2014 Organized and facilitated the Beckman Institute Graduate Student Seminar series.
- 2008-2012 *Teaching Consultant for Northwestern’s Searle Center for Teaching Excellence*. Position involved visiting classrooms to gather anonymous feedback from students regarding course instruction and providing instructors with suggestions based on students’ feedback.
- 2009-2010 *Graduate Teaching Workshop Facilitator, Northwestern University Searle Center for Teaching Excellence*  
  
2009 workshop: “Teaching Majors and Non-majors”



- 2010 workshop: "Facilitating Classroom Discussion"
- 2009 Volunteer judge for McDade Elementary School Science Fair, Chicago IL
- 2008 *Teaching Assistant Fellow*, Northwestern University Searle Center for Teaching Excellence. Designed and facilitated two workshops for firsttime TAs in Psychology and Linguistics as part of the annual New TA Conference

## **PROFESSIONAL MEMBERSHIPS**

- Cognitive Neuroscience Society (2007 – present)  
Psychonomic Society (2017 – present)  
Society for Psychophysiological Research (2016 – present)  
SPARK Society (2022 – present)

## **PREDOCTORAL RESEARCH POSITIONS**

- 2005-2006 Laboratory Manager, Developmental Cognitive Neuroscience Laboratory  
PI: Kevin Pelphrey, PhD, Duke University Psychology Department
- 2004-2005 Research Assistant, Computational Neuroscience Laboratory  
PI: Nestor Schmajuk, PhD, Duke University Psychology Department
- 2004-2005 Research Assistant, Infant Cognition Center  
PI: Elizabeth Brannon, PhD, Duke University Psychology Department
- 2002-2003 Research Assistant, With Walt Whitman in Camden Digital Edition  
Editor: Matt Cohen, PhD, Duke University English Department