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West Hollywood, CA 90048
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David Clewett, Ph.D. Neuroscience

ACADEMIC APPOINTMENTS

2020- **Assistant Professor of Psychology**
University of California, Los Angeles

2016-20 **Postdoctoral Fellow** (P.I. Lila Davachi)
New York University, New York

EDUCATION

2010-16 **Graduate Student** (P.I. Mara Mather)
University of Southern California, Los Angeles

2005-09 **B.S., Biopsychology with minor in English,** ***magna cum laude***
University of California, Santa Barbara

AWARDS AND HONORS

2021 Rising Star Award, Association for Psychological Science (APS)
2018-19 Top Downloaded Paper in *Hippocampus* (Clewett et al., 2019)
2018 Society for Neuroscience Trainee Professional Development Award (TDPA)
2018 Memory Disorders Research Society (MDRS) Cermak-Corkin Award
2018-20 Fellow, Postdoctoral F32 NRSA award from National Institute of Mental Health (Impact Score: 10; Percentile: 1%)
2018 Nominee, Charles H. Revson Senior Fellowship in Biomedical Science, Columbia University
2016-17 Fellow, National Institute on Mental Health T32 Grant, NYU
2015-16 Endowed Fellowship, USC
2015 Neuroscience Graduate Student of the Year, USC
2014-15 Russell Endowed Fellowship, USC
2014 Fellow, Kavli Summer Institute in Cognitive Neuroscience, UC Santa Barbara
2014 Fellow, Social Neuroscience: Integrating Society, Mind and Brain, USC
2013 Fellow, Social Neuroscience: Integrating Society, Mind and Brain, USC
2013 1st Place Cog. Neuro. Poster: 8th Annual Neuroscience Graduate Symposium, USC
2012 Fellow, Social Neuroscience: Integrating Society, Mind, and Brain, USC
2012 Best Overall Poster (of ~90 students): 7th Annual Neuroscience Graduate Symposium, USC
2009 Philip Steven Rethis Memorial Award given to a graduating senior in psychology who demonstrates character, determination, and scholarship, UC Santa Barbara
2009 Undergraduate Research and Creative Activities Grant, UC Santa Barbara

PUBLICATIONS

1) **Clewett, D.,** Gasser, C., & Davachi, L. (2020). Pupil-linked arousal signals track the temporal organization of events in memory. *Nature Communications, 11*, 4007.

2) Thorp, J., **Clewett, D.,** & Riegel, M. (2020). Two routes to incidental memory under arousal: Dopamine and norepinephrine. *Journal of Neuroscience, 40*(9), 1790-1792.

3) Mather, M., Huang, R., **Clewett, D.,** Nielsen, S., Velasco, R., Tu, K., Han, S., & Kennedy, B. (2020) Isometric exercise facilitates attention to salient events in women via the noradrenergic system. *Neuroimage*, *210*, 116560.

4) *__Clewett, D.,__ & *Murty, V. (2019). Echoes of emotions past: How neuromodulators determine what we recollect. *ENeuro*. *equal contributions

5) **Clewett, D.,** Dubrow, S., & Davachi, L. (2019). Transcending time in the brain: How event memories are constructed from experience. *Hippocampus*, *29*(3), 162-183.

6) Lee, T.H., Greening, S., Ueno, T., **Clewett, D.,** Ponzio, A., Sakaki, M., & Mather, M. (2018). Arousal increases neural gain via the locus coeruleus-norepinephrine system in younger adults but not in older adults. *Nature Human Behavior, 2,* 356-366.

7) **Clewett, D.,** Huang, R., Velasco, R., Lee, T.H., & Mather, M. (2018). Locus coeruleus activity strengthens prioritized memories under arousal. *Journal of Neuroscience, 38(6)*, 1558-1574.

8) Durbin, K., **Clewett, D.,** Huang, R., & Mather, M. (2018). Age differences in selective memory of goal-relevant stimuli under threat. *Emotion, 18*(6), 906-911.

9) **Clewett, D.,** & Davachi, L. (2017). The ebb and flow of experience determines the temporal structure of memory. *Current Opinion in Behavioral Sciences*, *17*, 186-193.

10) **Clewett, D.,** Sakaki, M., Huang, R., Nielsen, S., & Mather, M. (2017). Arousal amplifies biased competition between high and low priority memories more in women than in men: the role of elevated noradrenergic activity. *Psychoneuroendocrinology, 80,* 80-91.

11) Mather, M., Yoo, H.-J, **Clewett, D.**, Lee, T.-H., Greening, S., Ponzio, A., Min, J., & Thayer, J.F. (2017). Higher locus coeruleus MRI contrast is associated with lower parasympathetic influence over heart rate variability. *Neuroimage*, *150,* 329-335.

12) **Clewett, D.,** Sakaki, M., Nielsen, S., Petzinger, G., & Mather, M. (2017). Noradrenergic mechanisms of arousal's bidirectional effects on episodic memory. *Neurobiology of Learning and Memory*, *137*, 1-14.

13) Mather, M., **Clewett, D.**, Sakaki, M., & Harley, C. W. (2016). GANEing traction: The broad applicability of NE hotspots to diverse cognitive and arousal phenomena. *Behavioral and Brain Sciences*, *39*.

14) **Clewett, D.,** Lee, T.H., Greening, S., Ponzio, A., Margalit, E., & Mather, M. (2016). Neuromelanin marks the spot: Identifying a locus coeruleus biomarker of cognitive reserve in healthy aging. *Neurobiology of Aging*, *37,* 117-*126.*

15) Nielsen, S., Barber, S., Chai, A., **Clewett, D.,** & Mather, M. (2015). Sympathetic arousal increases a negative memory bias in young women with low sex hormone levels. *Psychoneuroendocrinology*, *62,* 96-106.

16) Mather, M., **Clewett, D.,** Sakaki, M., & Harley, C. (2015). Norepinephrine ignites local hot spots of neuronal excitation: How arousal amplifies selectivity in perception and memory. *Behavioral and Brain Sciences*, 1-100.

17) Aminoff, E. M., Freeman, S., **Clewett, D.,** Tipper, C., Frithsen, A., Johnson, A., Grafton, S. T., & Miller, M. B. (2015). Maintaining a cautious state of mind during a recognition test: a large-scale fMRI study. *Neuropsychologia, 67*, 132-47.

18) **Clewett, D. V.,** & Mather, M. (2014). Not all that glittered is gold: neural mechanisms that determine when reward will enhance or impair memory. *Frontiers in Neuroscience*, 8:194.

19) Freeman, S. M., **Clewett, D. V.,** Bennett, C. M., Kiehl, K. A., Gazzaniga, M. S., & Miller, M. B. (2014). The posteromedial region of the default mode network shows attenuated task-induced deactivation in psychopathic prisoners. *Neuropsychology, 29*(3), 493-500.

20) **Clewett, D.,** Schoeke, A., & Mather, M. (2014). Locus coeruleus neuromodulation of memories encoded during negative or unexpected action outcomes. *Neurobiology of learning and memory, 111*, 65-70.

21) **Clewett, D.,** Bachman, S., & Mather, M. (2014). Age-related reduced prefrontal-amygdala structural connectivity is associated with lower trait anxiety. *Neuropsychology, 28*(4): 631-42.

22) **Clewett, D.***, Luo, S.*, Hsu, E., Ainslie, G., Mather, M., & Monterosso, J. (2014). Increased functional coupling between the left fronto-parietal network and anterior insula predicts steeper delay discounting in smokers. *Human Brain Mapping, 35*(8): 3774-87. *co-first authors

23) **Clewett, D.,** Schoeke, A., & Mather, M. (2013). Amygdala functional connectivity is reduced after the cold pressor task. *Cognitive, Affective, & Behavioral Neuroscience, 3*(3): 501-18.

24) Hermundstad, A. M., Bassett, D. S., Brown, K. S., Aminoff, E. M., **Clewett, D.,** Freeman, S., Frithsen, A., Johnson, A., Tipper, C. M., Miller, M. B., Grafton, S. T., & Carlson, J. M. (2013). Structural foundations of resting-state and task-based functional connectivity in the human brain. *Proceedings of the National Academy of Sciences, 110*(15): 6169-74.

25) Aminoff, E. M., **Clewett, D**., Freeman, S., Tipper, C., Frithsen, A., Johnson, A., Grafton, S. T., & Miller, M. B. (2011). Individual differences in shifting decision criterion: A recognition memory study. *Memory and Cognition, 40*(7), 1016-30.

Manuscripts under revision

1) **Clewett, D.,** Yi, D., Bachman, S., Dunsmoor, J., Phelps, L., & Davachi, L. (under revision). Survival of the salient: Aversive learning rescues otherwise forgettable memories via neural reactivation and post-encoding hippocampal connectivity. *Neurobiology of Learning and Memory* (preprint available: https://doi.org/10.1101/2020.07.07.192252)

Manuscripts under review

1) **Clewett, D.,** & Davachi, L. (under review). Emotional arousal ripples across time to bind subsequent episodes in memory (preprint available: https://psyarxiv.com/ne5vs)

Manuscripts in preparation

1) ⊕McClay, M., & **Clewett, D.** (in prep). Bidirectional and selective effects of emotional stimuli on temporal order memory. ⊕graduate student

2) ⊕Huang, R., & **Clewett, D.** (in prep). The pupil as a window into locus coeruleus modulation of cognition. ⊕graduate student

3) Cowan, E., Chanales, A., **Clewett, D.,** & Davachi, L. (in prep). Event boundaries benefit memory for relevant information.

4) ⊕Huang, R., Durbin, K., **Clewett, D.,** Dahl, M. & Mather, M. (in prep). Arousal compensates for age-related deficits in early visual selectivity under high attentional load. ⊕graduate student

CONFERENCE POSTERS

⊕McClay, M. & Clewett, D. (2021, August). Bidirectional and selective effects of emotional stimuli on temporal order memory. *Context and Episodic Memory Symposium*, Philadelphia, PA. ⊕graduate student

⊕Huang, R., Durbin, K., Clewett, D., Dahl, M. & Mather, M. (2021, March). Arousal compensates for age-related deficits in early visual selectivity under high attentional load. *Cognitive Neuroscience Society*, online. ⊕graduate student

Clewett, D., Gasser, C., & Davachi, L. (2019, March). Arousal modulates the temporal organization of events in episodic memory. *Cognitive Neuroscience Society*, San Francisco, CA.

Clewett, D., Yi, D., Bachman, S., Dunsmoor, J., Phelps, E., & Davachi, L. (2018, April). Brain mechanisms by which emotional learning selectively and retroactively enhances memory for related information. *International Conference of Learning and Memory*, Huntington Beach, CA.

Clewett, D., Yi, D., Dunsmoor, J., Phelps, E., & Davachi, L. (2018, March). Brain mechanisms by which emotional learning selectively and retroactively enhances memory for related information. *Cognitive Neuroscience Society*, Boston, MA.

Clewett, D., Huang, R., Velasco, R., Lee, T. H., & Mather, M. (2016, April). Noradrenergic mechanisms of arousal-biased competition in memory. *Cognitive Neuroscience Society*, Chicago, IL.

Clewett, D.*, Sakaki, M.*, Nielsen, S., Petzinger, G., & Mather, M. (2015, October). Noradrenergic mechanisms of arousal-biased competition in memory. *Society for Neuroscience*, Chicago, IL.

Clewett, D., Sakaki, M., Joo, H. J., & Mather, M. (2014, April). Altered amygdala functional connectivity rather than structural decline predicts age differences in socioemotional wellbeing. *Cognitive Neuroscience Society*, Boston, MA.

Clewett, D., Haldar, J., Damasio, H. & Mather, M. (2012, April). Subregions of the thalamus connected with temporal and parietal cortices show greater age-related variation than other subregions. *Cognitive Neuroscience Society*, Chicago, IL.

Clewett, D., Haldar, J., Damasio, H. & Mather, M. (2012, January). Subregions of the thalamus connected with frontal and temporal cortex show greater age-related degeneration than other subregions. *Annual USC Neuroscience Graduate Symposium*, Los Angeles, CA.

Aminoff, E., Clewett, D., Freeman, S., Grafton, S. & Miller, M.B. (2011, November). Contextualizing words. *Society for Neuroscience*, Washington D.C.

Hsu, E., Clewett, D., Luo, S., Ainslie, G., & Monterosso, J. (2011, September). Neural Correlates of "Relative Farsightedness" during intertemporal choice. *Society for Neuroeconomics*, Chicago, IL.

Clewett, D., Schoeke, A., Abrams, Z. & Mather, M. (2011, April). Acute stress enhances activity in pain modulatory regions 15-25 minutes later. *Cognitive Neuroscience Society*, San Francisco, CA.

Clewett, D., Schoeke, A., Abrams, Z. & Mather, M. (2011, January). Acute stress enhances activity in the default mode network 15-25 minutes later. *Annual USC Neuroscience Graduate Symposium*, Los Angeles, CA.

Aminoff, E., Freeman, S., Clewett, D., Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2011, April). Neural correlates of criterion shifting in recognition memory. *Cognitive Neuroscience Society*, San Francisco, CA.

Clewett, Schoeke, Abrams, & Mather (2011, January). Stress enhances activity in the default mode network 15-25 minutes later. *Annual USC Neuroscience Graduate Symposium*, Los Angeles, CA.

Aminoff, E., Freeman, S., Clewett, D., Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2010, October). Behavioral and neural factors that account for individual differences of criterion shifting during recognition memory. *Society for Neuroscience*, San Diego, CA.

Aminoff, E., Tipper, C., Frithsen, A., Johnson, A., Freeman, S., Clewett, D., Grafton, S., & Miller, M. (2010, June). Individual variability in whole brain maps of task-related activity: what are the important factors? *Organization of Human Brain Mapping*, Barcelona, Spain.

Aminoff, E., Tipper, C., Frithsen, A., Johnson, A., Freeman, S., Clewett, D., Grafton, S., & Miller, M. (2010, March). Individual differences in adaptive decision-making: a cognitive neuroscience analysis of 95 officers and non-officers. *ICB Army-Industry Collaborative Conf.*, Santa Barbara, CA

SELECTED TALKS

Clewett, D. (2021, To be presented in December). Catecholamines facilitate temporal pattern separation in episodic memory. *Columbia University Psychology Seminar Series,* online.

Clewett, D. (2021, June). Arousal mechanisms shape the selectivity and structure of memory. *Joint Seminar in Neuroscience series at the UCLA Brain Research Institute (BRI),* online.

Clewett, D. (2021, June). Catecholamines facilitate temporal pattern separation in episodic memory. To be presented at the annual meeting of the *Organization of Human Brain Mapping (OHBM),* online.

Clewett, D. (2020, November). Survival of the salient: How aversive learning rescues otherwise forgettable memories in the brain. *Neuroimaging Affinity Group*, UCLA, CA.

Clewett, D. (2020, September). The ebb and flow of emotion shapes memory of time and events. *CogFog Meeting*, UCLA, CA.

Clewett, D. (2020, June). Emotional arousal shapes memory of time and events. *Context and Affective Memory Meeting*, Philadelphia, PN

Clewett, D. (2019, June). Emotion's carryover effects on novel associative learning. *Spring Hippocampal Research Conference*, Taormina, Sicily.

Clewett, D. (2019, May). Arousal modulates the temporal organization of events in episodic memory. *Context and Episodic Memory Society*, Philadelphia, PA.

Clewett, D. (2019, March). Arousal modulates the temporal organization of events in episodic memory. Data Blitz at *Cognitive Neuroscience Society*, San Francisco, CA.

Clewett, D. (2018, November). Brain mechanisms by which emotional learning selectively and retroactively enhances memory for related information. *Society for Neuroscience*, San Diego, CA.

Clewett, D. (2018, October). Brain mechanisms by which emotional learning selectively and retroactively enhances memory for related information. *Memory Disorders Research Society Meeting*, Toronto.

Clewett, D. (2018, May). Brain mechanisms by which emotional learning selectively and retroactively enhances memory for related information. *Manhattan Area Memory Meeting*, NY.

Clewett, D. (2014, January). Survival of the salient: noradrenergic mechanisms of arousal-biased competition. *9th Annual USC Neuroscience Graduate Program Symposium*, Los Angeles, CA.

Clewett, D. (2013, August). Norepinephrine as an emotional marker for loss aversion and memory. *USC Social Neuroscience Conference*, Catalina, CA.

Clewett, D. (2012, August). Stress-induced changes in a brain salience network predicts effective decision making in younger and older adults. *USC Social Neuroscience Conference*, Catalina, CA.

Clewett, D. (2011, October). Age-related thalamic degeneration revealed by diffusion tensor imaging. *USC Neuroscience Neurolunch Seminar*, Los Angeles, CA.

Clewett, D. (2011, March). Imaging the effects of acute stress on subsequent resting-state network activity. *USC Neuroscience Neurolunch Seminar*, Los Angeles, CA.

TEACHING AND MENTORSHIP

Graduate Students

2020- **Mason McClay,** UCLA Psychology Graduate Program

**National Science Foundation GRFP (2021)
**Graduate Summer Research Mentorship Program (2021)

2020- **Ringo Huang**, UCLA Psychology Graduate Program

**Cognitive Neuroscience Society Graduate Student Award (2021)
**National Science Foundation GRFP: Honorable Mention (2021)
**National Science Foundation GRFP: Honorable Mention (2020)
**Graduate Summer Research Mentorship Program (2021)

2021- **Cody Cushing,** UCLA Psychology Graduate Program (secondary; primary PI: Hakwan Lau)

Dissertation Committee Member

2021 **Christina Sandman** (PI: Michelle Craske)

2021 **Mouslim Cherkaoui** (PIs: Hakwan Lau and Jesse Rissman)

2021 **Cody Cushing** (PI: Hakwan Lau and Michelle Craske)

2021 **Joshua Cain** (PI: Martin Monti)

Psychology 251 Project Co-Mentor

2020-21 **Mary Vitello** (Cognitive Program)

Psychology Paper C Reader

2021 **Catherine Walsh** (Cognitive Program)

Honors Thesis Second Reader (198B)

2021 **Chenyang Lin** (PI: Ladan Shams)

Research Assistants

2021- **Maryan Miremadi,** UCLA

2021- **Camille Laksman**, UCLA

- Psych 196B (Spring 2021)
- UCLA Psychology Honors Program

2021- **Ziyuan Chen,** UCLA

- UCLA Psychology Honors Program

2019-20 **Zala Reppman,** Columbia University
- Disciplinary Honors Program, Radboud University

2019 **Elizabeth Stettenbauer**, NYU

2018-19 **Elizabeth Xu**, NYU
- Co-author on successful DURF grant
- Honors thesis co-mentor

2018 **Joseph Bell**, Columbia University

2016-17 **Alexander Ren**, NYU
- Co-author on successful DURF grant

2013-16 **Ringo Huang**, USC
- Co-author on two successful SURF grants
- Co-author on successful SOAR grant
- Co-author on two successful Provost Fellowships
- Co-author on successful Rose Hills Foundation grant

2013-14 **Eshed Margalit**, USC
- Recipient of the 2014 Brian Phillip Rakusin Neuroscience Scholarship Award, given to the best junior-year student in the neuroscience major
- NEUR-490 (neuroscience major) honors project
- Co-author on two successful Provost Fellowships, USC

2013 **Jolie Cooperman**, USC
- BISC-490 (biology major) honors project
- Co-author on successful Provost Fellowship, USC

2013 **Paul Choi**, California State University: Northridge

2013 **Joyce Kim**, USC

2010-12 **Shelby Bachman**, USC
- Senior Honors Thesis mentor

UCLA Courses

2020- **Organizer**, Cognitive Forum, UCLA

2021 **Lecturer,** Cognitive Psychology (PSYCH 120A), Department of Psychology, UCLA.

+Median Instructor Rating: 9 out of 9
+Median Course Rating: 9 out of 9

2020 **Lecturer,** Human Memory (PSYCH 124C), Department of Psychology, UCLA.

+Median Instructor Rating: 9 out of 9
+Median Course Rating: 9 out of 9

Teaching Assistant Positions

2012 **Teaching Assistant and Laboratory Instructor**, General Physiology (BISC 307L), Department of Biological Sciences, USC
+Average TA Rating: 4.92/5

Workshop Lectures

2012 **Guest Lecturer,** "How to process arterial spin labeling data". *USC Cognitive Neuroscience and Neuroimaging Methods Workshop*.

2011 **Guest Lecturer,** "Imaging functional networks: the ICA and dual regression approach". *USC Cognitive Neuroscience and Neuroimaging Methods Workshop*.

SERVICE TO UNIVERSITY

2021-24 Legislative Assembly, UCLA

2021-22 Merit Review Committee, Alternate (UCLA)

2021 Moderator for Undergraduate Research Conference, UCLA

2021 SfN Travel Award Abstract Reviewer, Brain Research Institute, UCLA

2020- Cognitive Science Major Committee

PROFESSIONAL EXPERIENCE

2019-20 *Research Affiliate,* Davachi Memory Lab, Columbia University, PI: Lila Davachi, Ph.D.

2016-20 *Postdoctoral Fellow,* Davachi Memory Lab, New York University, PI: Lila Davachi, Ph.D.

2011-16 *PhD Student,* Emotion and Cognition Lab, University of Southern California, PI: Mara Mather, Ph.D.

2011 *Teaching Assistant,* BISC 307L: General Physiology, University of Southern California, Instructor: Michael Herrera, Ph.D.

2010 *Rotating Graduate Student*, Brain and Creativity Institute, University of Southern California, PI: Hanna Damasio, M.D.

2010-11 *Rotating/Consulting Graduate Student*, Self-Control and Addiction Lab, University of Southern California, PI: John Monterosso, Ph.D.

2010 *Rotating Graduate Student*, Emotion and Cognition Lab, University of Southern California, PI: Mara Mather, Ph.D.

2009-10 *Research Assistant*, Action Lab West, University of California, Santa Barbara, PI: Scott Grafton, M.D.

2009-10 *Research Assistant*, Human Memory and Neuroimaging Lab, University of California, Santa Barbara, PI: Michael Miller, Ph.D.

2008-09 *Research Assistant*, Close Relationships Lab, University of California, Santa Barbara, PI: Nancy Collins, Ph.D.

AD HOC REVIEWER

Nature Human Behavior
Proceedings of the National Academy of Sciences
Psychological Science
Journal of Neuroscience
Psychoneuroendocrinology
Human Brain Mapping
Neuroimage
Journal of Cognitive Neuroscience
Current Opinion in Behavioral Sciences
Neuropsychologia
Memory & Cognition
Psychonomic Bulletin & Review
Behaviour Research and Therapy
Social Cognitive and Affective Neuroscience
Cognition
Frontiers in Human Neuroscience
Mind, Brain, and Education
Journal of the Royal Society Interface
Brain and Cognition
Brain Imaging and Behavior
PLOS One

EDITORIAL POSITIONS

2021- **Abstract Reviewer Board,** *Society for Affective Science Conference*

2020- **Review Editor**, *Frontiers in Human Neuroscience: Brain Imaging and Stimulation*

2019 **Abstract Reviewer,** *Conference on Cognitive Computational Neuroscience*

GRANT REVIEWS

2020 **Reviewer**, *Biotechnology and Biological Sciences Research Council (BBSRC)*

PROFESSIONAL MEMBERSHIPS

Memory Disorders Research Society
Brain and Research Institute, UCLA
Integrative Center for Learning and Memory, UCLA
Association for Psychological Science
American Psychological Association
Cognitive Neuroscience Society
Society for Neuroscience
Social and Affective Neuroscience Society

MEDIA

1) UCLA Lab Website: https://clewettlab.psych.ucla.edu/

2) *Behavioral and Brain Sciences* article press release: https://dornsife.usc.edu/news/stories/2233/why-we-remember-or-forget-details-of-alarming-moments/

3) Journal of Neuroscience (2018) article press release: https://pressroom.usc.edu/tiny-brain-region-sorts-out-stressful-memories/

4) Npj Science of Learning blog: https://npjscilearncommunity.nature.com/posts/august-2020-research-round-up

5) Social Neuroscience Fellowship work featured on USC Dornsife website and newsletter: http://dornsife.usc.edu/news/stories/1490/brainwaves-by-the-sea/

6) Lecture and slides from USC Cognitive Neuroscience and Neuroimaging Methods Workshop: https://ngp.usc.edu/journals/cognitive-neuroscience-neuroimaging-methods/