

Halle R. Dimsdale-Zucker
 312 Schermerhorn Hall
 1190 Amsterdam Avenue
 New York, NY
 E-Mail Address: hdimsdalezucker@gmail.com

Education

- 2019-current Postdoc
 Supervisors: Drs. Mariam Aly and Christopher Baldassano
 Columbia University, New York, NY
- 2013-2019 Ph.D. in Cognitive Neuroscience
 Supervisor: Dr. Charan Ranganath
 University of California at Davis, CA
- 2015 M.A. in Cognitive Neuroscience
 University of California at Davis, CA
- 2006-2010 B.A. with distinction in Brain, Behavior and Cognitive Sciences and English
 Thesis with High Honors: “Multiple memory systems? Serial position dependent false memory effects”
 University of Michigan, Ann Arbor, MI

Honors and Awards

- 2019 UC Davis Psychology Professional Development Award (\$400)
- 2018 UC Davis Graduate Student Travel Award (\$500)
- 2017 UC Davis Dukes Travel Award (\$400)
11 awards out of 13 applications
- 2016 Don Owings Memorial Award
Best talk at the UC Davis Psychology Department Conference
- 2016 UC Davis Dukes Travel Award (\$750)
7 awards granted out of 22 applications
- 2013 National Science Foundation Graduate Research Fellowship
- 2011 Boston College Research Expense Grant (\$2,000)
Co-written with Dr. Elizabeth A. Kensinger
- 2009 Hellman Honors Award (\$350)
- 2008 Tanner Memorial Award (\$600)

Preprints and manuscripts under review

* denotes equal contribution

Dimsdale-Zucker*, H.R., Maciejewska*, K., Kim, K., Yonelinas, A.P., & Ranganath, C. (2021). Relationships between individual differences in dual process and electrophysiological signatures of familiarity and recollection during retrieval. *bioRxiv*. doi: <https://doi.org/10.1101/2021.09.15.460509>

Dimsdale-Zucker, H. R., Montchal, M. E., Reagh, Z. M., Wang, S-F., Libby, L. A., & Ranganath, C. (2020). Hippocampal subfields integrate information about past temporal and cognitive contexts. *bioRxiv*. doi: <https://doi.org/10.1101/766311>

Publications

* denotes equal contribution

Barnett, A. J., Reilly, W., **Dimsdale-Zucker, H. R.**, Mizrak, E., Reagh, Z. M., & Ranganath, C. (2021). Organization of cortico-hippocampal networks in the human brain. *PLoS Biology*. doi: 10.1371/journal.pbio.3001275

Tarder-Stoll, H., Gasser, C., Yu, W., & **Dimsdale-Zucker, H.R.** (accepted, 2021). Challenges in understanding the role of reactivation in modifying hippocampal representations. *Journal of Neuroscience*.

Tarder-Stoll*, H., Jayakumar*, M., **Dimsdale-Zucker, H. R.**, Günseli, E., & Aly, M. (2020). Dynamic internal states shape memory retrieval. *Neuropsychologia*, 138(17), . DOI: <https://doi.org/10.1016/j.neuropsychologia.2019.107328>.

Jonker, T. R., **Dimsdale-Zucker, H. R.**, Ritchey, M., Clarke, A., & Ranganath, C. (2018). Neural reactivation in parietal cortex enhances memory for episodically-linked information. *Proceedings of the National Academy of Sciences*, 115(43), 11084-11089. DOI: <https://doi.org/10.1073/pnas.1800006115>.

Dimsdale-Zucker, H.R. & Ranganath, C. (2018). Representational similarity analyses: A practical guide for functional MRI applications. In Manahan-Vaughan, D. (Ed.), *Handbook of In Vivo Neural Plasticity Techniques: A Systems Neuroscience Approach to the Neural Basis of Memory and Cognition*. DOI: <https://doi.org/10.1016/B978-0-12-812028-6.00027-6>.

Dimsdale-Zucker, H.R., Flegal, K.E., Atkins, A.S., & Reuter-Lorenz, P.A. (2018). Serial position-dependent false memory effects. *Memory*, 27(3), 397-409. DOI: <https://doi.org/10.1080/09658211.2018.1513039>.

Dimsdale-Zucker*, **H.R.** & Nicholas*, J. (2018). Is spatial context privileged in the neural representation of events? *Journal of Neuroscience*, 38(28), 6241-6243. DOI: <https://doi.org/10.1523/JNEUROSCI.0949-18.2018>.

Dimsdale-Zucker, H. R., Ritchey, M., Ekstrom, A. D., Yonelinas, A. P., & Ranganath, C. (2018). CA1 and CA3 differentially support spontaneous retrieval of episodic contexts within human hippocampal subfields. *Nature Communications*, 9, 1-8. DOI: 10.1038/s41467-017-02752-1.

Waring, J.D., **Dimsdale-Zucker, H.R.**, Flannery, S., Budson, A.E., & Kensinger, E.A. (2017). Effects of Mild Cognitive Impairment on Emotional Scene Memory. *Neuropsychologia*. DOI: 10.1016/j.neuropsychologia.2017.01.011.

Krendl, A.C., **Zucker, H.R.**, & Kensinger, E.A. (2016). Examining the effects of emotion regulation on the ERP response to highly negative social stigmas. *Social Neuroscience*. <http://dx.doi.org/10.1080/17470919.2016.1166155>.

Zucker, H. R., & Ranganath, C. (2015). Navigating the human hippocampus without a GPS. *Hippocampus*, 25(6), 697–703. <http://doi.org/10.1002/hipo.22447>

Mickley Steinmetz, K.R., Schmidt, K., **Zucker, H.R.**, & Kensinger, E.A. (2012). The effect of emotional arousal and retention delay on subsequent-memory effects. *Cognitive Neuroscience*, 12(3-4), 150-159.

Invited talks and workshops

STEMinars, Columbia University (high-school audience) (May 2021)

Empire Strikes Back, Columbia University (April 2021)

Introduction to Git and GitHub Workshop, Columbia University (February 2020)

Representational Similarity Workshop, University of Wisconsin Milwaukee (May 2019)

Presentations

signifies that the first author was/is my research assistant or undergraduate mentee

\$ signifies that the first author was/is my research assistant or high school mentee

* denotes equal contribution

Dimsdale-Zucker, H.R., Montchal, M.E., Reagh, Z.M., Wang, S.-F., Libby, L., & Ranganath, C. (2021, August). CA23DG patterns are modulated by spontaneously retrieved encoding contexts. Poster presented at the Context and Episodic Memory Symposium. Philadelphia, PA.

#Walker, Z. & **Dimsdale-Zucker, H.R.** (2021, August). Does Memory Differ Across a Novel Stimulus Set? Virtual poster presented at the Summer Internship Program in Psychological Science Conference, Virtual.

#Oztelcan *, E., Walker*, Z., & **Dimsdale-Zucker, H.R.** (2021, April). What is the impact of statistical structure on response time latencies? Virtual poster presented at the Psychology Department Undergraduate Symposium, Virtual.

Dimsdale-Zucker, H.R., Aly*, M., Baldassano*, C. (2021, March). Using contexts defined by temporal structure to guide memory. Virtual poster presented at Cognitive Neuroscience Society. Virtual.

\$Blitsman, S. (2019). Inferring latent contexts to guide behavior and memory. Poster presented at the NSPC Health and Science Competition, Long Island University, NY.

#Knapp, I., & **Dimsdale-Zucker, H.R.** (2019, July). Statistical learning in the lab: Studying how we extract patterns from the environment. Poster presented at the Lida Orzeck '68 Summer Research Institute Poster Session, New York, NY.

Dimsdale-Zucker, H.R., Kim, K., Barnett, A., Hsieh, L-T., Reagh, Z.M., & Ranganath, C. (2018, November). Relationships between individual electroencephalography and resting state signatures of memory for items and contexts. Poster presented at Society for Neuroscience, San Diego, California.

Dimsdale-Zucker, H.R., Montchal, M.E., Wang, S.-F., Libby, L.A., & Ranganath, C. (2017, November). Different scales for time in the hippocampal subfields. Poster presented at Society for Neuroscience, Washington, D.C.

Dimsdale-Zucker, H.R., Montchal, M.E., Wang, S.-F., Libby, L.A., & Ranganath, C. (2017, January). How are temporal and cognitive contexts represented by hippocampal subfields? Poster presented at Bay Area Memory Meeting, San Francisco, California.

Dimsdale-Zucker, H.R., Montchal, M.E., Wang, S.-F., Libby, L.A., & Ranganath, C. (2016, November). How are temporal and cognitive contexts represented by hippocampal subfields? Poster presented at Society for Neuroscience, San Diego, California.

Zucker, H.R.**, Ritchey, M., Ekstrom, A.D., Yonelinas, A.P., & Ranganath, C. (2016, May). Memory for space and time in the human hippocampus. Talk presented at UC Davis Psychology Department Annual Conference, Davis, California. (*Awarded Don Owings Memorial Prize for Best Talk***)

Zucker, H.R., Ritchey, M., Ekstrom, A.D., Yonelinas, A.P., & Ranganath, C. (2016, May). Memory for space and time in the human hippocampus. Talk presented at Context and Episodic Memory Symposium, Philadelphia, Pennsylvania.

Zucker, H.R., Ritchey, M., Ekstrom, A.D., Yonelinas, A.P., & Ranganath, C. (2015, March). How the MTL represents spatial and temporal contexts: A high-resolution MRI investigation. Poster presented at Cognitive Neuroscience Society, San Francisco, California.

Zucker, H.R. & Kensinger, E.A. (2013, April). How the neural correlates of recognition memory change over brief delays. Poster presented at Cognitive Neuroscience Society, San Francisco, California.

Ford, J.F., Morris, J.A., **Zucker, H.R.** & Kensinger, E.A. (2013, April). Neural correlates of emotional memory retrieval cross the lifespan. Poster presented at Cognitive Neuroscience Society, San Francisco, California.

Waring, J.D., **Zucker, H.R.**, Deason, R.G., Flannery, S., Budson, A.E., & Kensinger, E. A. (2012, October). The effects of mild cognitive impairment on emotional scene memory. Poster presented at Society for Neuroscience, New Orleans, Louisiana.

Mickely Steinmetz, K.R., Schmidt, K., **Zucker, H.R.**, & Kensinger, E.A. (2012, October). Short- and long-range impacts of encoding activity on memory for arousing

and non-arousing information. Poster presented at Society for Neuroscience, New Orleans, Louisiana.

Zucker, H.R., Reuter-Lorenz, P.A., & Kensinger, E.A. (2012, June). Aging and false memories: Comparing effects of item-relatedness and list position. Poster presented at Massachusetts Neuropsychological Society, Boston, Massachusetts.

Zucker, H.R., Reuter-Lorenz, P.A., & Kensinger, E.A. (2012, March). Aging and false memories: Comparing effects of item-relatedness and list position. Poster presented at Cognitive Aging Conference, Atlanta, Georgia.

Zucker, H.R. & Kensinger, E.A. (2011, June). Memory for emotional details, how the middle-aged brain fares. Poster presented at Organization for Human Brain Mapping, Quebec City, Canada.

Zucker, H.R., Sabhapathy, S., Walker, S., Drag, L., & Bieliauskas, L., (2010, April). Alcohol and acumen: Effects of alcohol consumption on cognitive functioning. Poster presented at Midwestern Psychological Association, Chicago, Illinois.

Zucker, H.R., Flegal, K.E., Atkins, A.S., & Reuter-Lorenz, P.A. (2010, April). Distinguishing between memory systems: False memories depend on serial position. Poster presented at Cognitive Neuroscience Society, Montreal, Canada.

Weng, S.J., Lee, J.A., Louro, H., **Zucker, H.**, Fulton, C., Risi, S., C. Lord, Monk, C.S. (2008, May). The neural circuitry of social reward in autism spectrum disorders. Poster presented at International Meeting for Autism Research, London.

Teaching Experience

Journal Club (Columbia) High school level (10 students; virtual) Organizer	Summer 2021
Justice Through Code (Columbia) Incarcerated individuals Guest lecture organizer	Fall 2020
Journal Club (Columbia) High school level (4 students; virtual) Organizer	Summer 2020
Human Brain Imaging for Cognitive Neuroscience Graduate level (24 students) Guest lecturer	Spring 2020
Statistics for Behavioral Scientists (Columbia) Undergraduate level (40 students)	Spring 2020

Guest lecturer	
Journal Club (Columbia) High school level (8 students) Organizer	Summer 2019
History of Psychology (UC Davis) Undergraduate level (60 students) Teaching assistant	Spring 2017
Development of Memory (UC Davis) Undergraduate level (62 students) Teaching assistant Guest lecturer	Winter 2017
Fundamentals of Cognitive Neuroimaging (UC Davis) Graduate level (15 students) Guest lecturer	Spring 2016
Event-related potentials: A laboratory methods course (Boston College) Undergraduate level (15 students) Laboratory teaching assistant <i>Gave lectures, supervised in-class labs, generated and graded exams</i>	Winter 2012
Memory in Everyday Life (Boston College) Undergraduate level (70-120 students depending on semester) Writing tutor <i>Held office hours and assisted with writing of weekly response papers and term paper</i> Guest lecturer	Fall 2010, 2011, 2012 Fall 2011
<i>Mentorship</i>	
<hr/> <i># = undergraduate, * = high school</i>	
Zion Walker [#] (Columbia) Research Assistant	2020-present
Ezgi Oztelcan [#] (Berkley, supervised remotely from Columbia) Research Assistant	2020-present
Sophie Blitsman [*] (Columbia) High school honors student	2019-2021
Isabelle Knapp [#] (Barnard/Columbia) Summer Research Institute (SRI) position	2019
Laurin Gagné [#] (Columbia) Supervised Independent Research (PSYC 3950)	2018-2019
Boyoung Kim [#] (UC Davis) Brain tracer	2017-2018

Aria Fereydouni [#] (UC Davis) Research Assistant and brain tracer	2017-2018
Charlie Lowell [#] (UC Davis) Research Assistant	2017-2018
Meyhaa Buvanesh [#] (UC Davis) Research Assistant	2017-2018
Kelley Durham [#] (Boston College) Thesis supervisor (Title: How stress impacts memory for emotional scenes)	2011-2012

Service

2020-present	Columbia Trainee Diversity, Equity, and Inclusion Working Group <i>Founding member; Instructor for summer mentorship program for high-school students from historically discriminated backgrounds; Advocate for internal departmental culture reforms</i>
2015-2018	UC Davis Curriculum Committee, Graduate student representative
2014-2015	Sacramento Valley Association for Women in Science volunteer <i>Treasurer 2015</i>
2013-2018	UC Davis Brain Awareness Week volunteer <i>Organizer, 2015</i>
2012-2013	Boston College Brain Awareness Week coordinator
2010-2013	APSSC Student Grant Reviewer
2009	University of Michigan Psi Chi Advisory Board
2009	Student representative, University of Michigan Subject Pool Advisory Committee

Ad hoc reviewer (see <https://publons.com/researcher/223922/halle-r-zucker/>)

BMC Psychiatry
eLife
Hippocampus
Journal of Cognitive Psychology
Journal of Neuroscience
NeuroImage
PLOSOne
Science Advances
Trends in Cognitive Sciences

Professional Memberships

2012-present	Society for Neuroscience
2009-present	Association for Psychological Science
2007-present	Cognitive Neuroscience Society
lifetime member	Psi Chi Psychology Honors Society

lifetime member

National Society of Collegiate Scholars