

# Andrew M. Wikenheiser

## Curriculum vitae

NIDA Intramural Research Program  
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### Academic Positions

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**2018–**                      **Assistant Professor**  
Department of Psychology  
University of California, Los Angeles

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### Education

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**2014–2018**                **Post-doctoral fellow**  
NIDA Intramural Research Program  
Adviser: Geoff Schoenbaum

**2008–2014**                **Ph.D. Neuroscience**  
University of Minnesota - Twin Cities  
Graduate Program in Neuroscience  
Adviser: A. David Redish

**2003–2007**                **B.A. Biology** (*summa cum laude*)  
University of Mary, Bismarck, ND  
Minor: Chemistry

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### Research Articles

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1. **AM Wikenheiser**, Y Marrero-Garcia, G Schoenbaum. (2017). Suppression of ventral hippocampal output impairs integrated orbitofrontal encoding of task structure. *Neuron* 95(5): 1197-1207.e3.
2. **AM Wikenheiser**, AD Redish. (2015). Hippocampal theta sequences reflect current goals. *Nature Neuroscience* 18: 289–294.
3. **AM Wikenheiser**, DW Stephens, AD Redish. (2013). Subjective costs drive overly-patient foraging strategies on an intertemporal foraging task. *Proceedings of the National Academy of Sciences* 110(20): 8308–8313.
4. **AM Wikenheiser**, AD Redish. (2013). The balance of forward and backward hippocampal sequences shifts across behavioral states. *Hippocampus* 23(1): 22–29.
5. **AM Wikenheiser**, AD Redish. (2011). Changes in reward contingency modulate the trial to trial variability of hippocampal place cells. *Journal of Neurophysiology* 106(2): 589–598.

6. L Lin, W Sun, **AM Wikenheiser**, F Kung, DA Hoffman. (2010). KChIP4a regulates Kv4.2 channel trafficking through PKA phosphorylation. *Molecular and Cellular Neuroscience* 43(3): 315–325.
7. RS Hammond, L Lin, MS Sidorov, **AM Wikenheiser**, DA Hoffman. (2008). Protein kinase A mediates activity dependent Kv4.2 channel trafficking. *Journal of Neuroscience* 28(30): 7513–7519.

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### Reviews, Chapters, etc.

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1. AJ Langdon, **AM Wikenheiser**, G Schoenbaum. (2017). Rat mPFC and M2 play a waiting game (at different timescales). *Neuron* 94(4): 700–702.
2. B Sadacca, **AM Wikenheiser**, G Schoenbaum. (2017). Toward a theoretical role for tonic norepinephrine in the orbitofrontal cortex in facilitating flexible learning. *Neuroscience* 345: 124–129.
3. **AM Wikenheiser**, G Schoenbaum. (2016). Over the river, through the woods: cognitive maps in the hippocampus and orbitofrontal cortex. *Nature Reviews Neuroscience* 17: 513–523.
4. MJ Sharpe, **AM Wikenheiser**, Y Niv, G Schoenbaum. (2015). The state of the orbitofrontal cortex. *Neuron* 88: 1075-1077.
5. **AM Wikenheiser**, AD Redish. (2015). Decoding the cognitive map: ensemble hippocampal sequences and decision making. *Current Opinion in Neurobiology* 32: 8–15.
6. **AM Wikenheiser**, AD Redish. (2015). Hippocampal sequences and the cognitive map. In: *Analysis and Modeling of Coordinated Multi-neuronal Activity* Springer New York, 105–129.
7. **AM Wikenheiser**, AD Redish. (2012). Hippocampal sequences link past, present, and future. *Trends in Cognitive Sciences* 16(7): 361–362.

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### Talks

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| <b>2017</b> | <b>Society for Neuroscience Meeting Minisymposium</b><br>Neural Circuits Supporting Cognitive Maps for Goal-Directed Behavior<br>Washington, DC |
| <b>2017</b> | <b>Johns Hopkins Department of Neuroscience</b><br>Baltimore Brain Series<br>Baltimore, MD  |
| <b>2017</b> | <b>NIMH Affective Neuroscience Interest Group</b><br>Bethesda, MD   |
| <b>2017</b> | <b>UCLA Department of Psychology</b><br>Los Angeles, CA   |

- 2016**                    **Winter Meeting on Learning and Memory**  
Park City, UT
- 2015**                    **Chesapeake Area Memory and Learning Meeting**  
Baltimore, MD
- 2015, 2017**            **Fellow's Research Lunch**  
NIDA Intramural Research Program
- 2013**                    **Doctoral Dissertation Fellowship Seminar Series**  
University of Minnesota
- 2013**                    **COSYNE Workshop**  
Neural Mechanisms of Foraging Behavior (co-organizer)  
Snowbird, UT
- 2011**                    **Midbrains Neuroscience Consortium**  
St. Olaf College, Northfield, MN
- 2011–2014**            **Graduate Program in Neuroscience Colloquium**  
University of Minnesota

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**Honors & Awards**

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- 2014**                    **Beatrice Z. Milne and Theodore Brandenburg Award**  
University of Minnesota Medical School
- 2013**                    **NIH Graduate Student Research Conference**  
National Institutes of Health, Bethesda, MD
- 2013**                    **Stark Award Travel Grant**  
Department of Neuroscience, University of Minnesota
- 2012**                    **Doctoral Dissertation Fellowship**  
University of Minnesota
- 2010**                    **Poppele Prize**  
Department of Neuroscience, University of Minnesota
- 2007**                    **Post-baccalaureate Research Fellowship**  
National Institutes of Health, Bethesda, MD  
Adviser: Dax Hoffman

## Mentorship

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- 2016**                      **Research Mentor**  
Graduate Summer Opportunity to Advance Research Program  
National Institutes of Health
- 2012–2013**                **Research Mentor**  
Undergraduate Research Mentorship Program  
Howard Hughes Medical Institute  
University of Minnesota
- 2010**                      **Seminar Coordinator & Group Leader**  
Life Sciences Summer Undergraduate Research Program  
University of Minnesota College of Biological Sciences

## Service

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- 2009–2011**                **Student Representative**  
Neuroscience Seminar committee  
University of Minnesota
- 2014–2016**                **Application Reviewer**  
Summer Research Internship Program  
National Institute on Drug Abuse

### **Ad hoc reviewer for:**

*Experimental Brain Research, Nature Neuroscience, Neurobiology of Learning & Memory, Neuron, Journal of Neuroscience, Frontiers in Psychology, Behavioral Neuroscience, Current Biology, Current Opinion in Behavioral Sciences, Scientific Reports, eLife, Brain and Neuroscience Advances, PLOS Computational Biology*