2014 ANNUAL MEETING
MEMORY DISORDERS RESEARCH SOCIETY

AUSTIN, TEXAS
2014 Annual Meeting
of the
Memory Disorders Research Society
The University of Texas at Austin
Austin, TX

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Thanks to the generous support of our conference sponsors:
Talk and Event Schedule

Wednesday, September 17th

7:00 pm Welcome Reception, AT&T Hotel Courtyard, 1900 University Ave.  
http://www.meetattexas.com/  
(MDRS members and invited speakers only)

Thursday, September 18th

7:30 – 8:00 Breakfast  
Blanton Auditorium Foyer

8:00 – 8:30 Introduction and Orientation to Austin

8:30 – 10:00 Open Talk Session I  
5 minute talks with 5 minutes for questions  
Presenters: Rik Henson, Joel Voss, Morgan Barense, Simona Ghetti, Arne Ekstrom, Nick Turk-Browne, Jesse Rissman, Veronique Bohbot

10:00 – 10:30 Coffee Break

10:30 – 12:30 Symposium I: Schema and the neurobiology of memory: A (schematic) framework for moving forward  
Organizer: Asaf Gilboa  
• Building on prior knowledge: Probing schema effects in an educational setting - Marlieke van Kesteren  
• Probing schematic representations - Guillen Fernandez  
• Integrating memories across time - Alison Preston  
• Statistical regularities in multiple memories are extracted over time - Paul Frankland  
• Experience, schemata and the vmPFC - Morris Moscovitch

12:30 – 1:30 Catered Lunch  
Blanton Auditorium Foyer

1:30 – 2:40 Symposium II: Eye spy with my little I: The analysis of gaze and pupillary dilation during encoding and retrieval  
Organizer: Ian Dobbins  
• Pupil responses and fixation patterns are valuable contributors to our exploratory arsenal: Differentiation between memory types, strengths and contexts - Daniela Montaldi  
• Eye movements index learning and memory without awareness - Debbie Hannula
• Expectation and judgment uncertainty separately govern pupillary dilation during recognition judgments - Ian Dobbins

2:40 – 3:00  **Cermak Award Winner:** Rosanna Olsen

3:00 – 3:30  **Open Talk Session II**
5 minute talks with 5 minutes for questions  
**Presenters:** Daniel Levy, Jarrod Lewis-Peacock, Brice Kuhl

3:30 – 3:45  **Coffee Break**

3:45 – 4:50  **Keynote Lecture:** If we learn like that, why do we teach like this?  
Bob Duke

7:00 – 10:00  **Banquet**, Max’s Wine Dive, 207 San Jacinto Blvd., Austin  
http://www.maxswinedive.com/  
(MDRS members and invited speakers only)

**Friday, September 19th**

8:00 – 9:00  **Breakfast**  
Blanton Auditorium Foyer

9:00 – 10:00  **Open Talk Session III**
5 minute talks with 5 minutes for questions  
**Presenters:** Stephan Hamann, Myra Fernandes, Andrew Budson, David Schnyer, Jeff Zacks, Jon Simons, Nikolai Axmacher

10:10 – 10:30  **Coffee Break**

10:30 – 12:30  **Symposium III:** Understanding recognition memory in the medial temporal lobe  
**Organizer:** Lisa Saksida

• Object recollection and episode familiarity: Are structures within MTL dedicated to processes, or representations? - Rosie Cowell

• Neurocognitive networks for perception and memory - Kim Graham

• Revisiting MTL functional specialization: The plot thickens - Andrew Mayes

• Evidence for distinct spatial and non-spatial hippocampal subnetworks - Magdalena Sauvage

• MTL cortical modules provide stimulus-specific input to hippocampal binding mechanisms - Bernhard Staresina

• The division of labor in the MTL is based on the attributes and mechanisms of memory, not on the strength or subjective experience of memory - John Wixted
12:30 – 1:30  **Catered Lunch**  
Blanton Auditorium Foyer

1:30 – 3:10  **Symposium IV: Individual differences in memory among healthy adults**  
*Organizers: Brian Levine & Craig Stark*

- Learning and forgetting in individuals with highly superior autobiographical memory - Craig Stark
- Inter-individual variation in episodic autobiographical memory ability: Relationship to behavioral and brain imaging findings - Brian Levine
- Who can remember? Factors affecting the vividness and valence of autobiographical recall - Dan Greenberg
- The role of individual differences in working memory training and transfer - Susanne Jaeggi

3:10 – 3:40  **Open Talk Session IV**  
5 minute talks with 5 minutes for questions  
*Presenters: Mick Rugg, Michael Miller, Ken Paller*

3:40 – 4:00  **Coffee Break**

4:00 – 4:20  **Cermak Award Winner: Vishnu Murty**

4:20 – 5:00  **Open Talk Session V**  
5 minute talks with 5 minutes for questions  
*Presenters: Kevin LaBar, Elisabeth (Betsy) Murray, Carmen Westerberg, Andy Yonelinas*

5:00 – 6:00  **Business Meeting**  (MDRS Members Only)

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**Saturday, September 20th**

7:45 – 8:30  **Breakfast**  
Blanton Auditorium Foyer

8:30 – 10:10  **Symposium V: Processes and mechanisms behind temporal organization in episodic memory**  
*Organizer: Charan Ranganath*

- The representation of time in the medial temporal lobe - Wendy Suzuki
- Neural signals revealing the organization of memory - Sean Polyn
- Segmentation of ongoing experiences influences temporal clustering in memory - Lila Davachi
- Hippocampus and prefrontal cortex: Vampyres of time and memory - Charan Ranganath
10:10 – 10:30 **Coffee Break**

10:30 – 12:10 **Symposium VI: Fronto-MTL interactions supporting the control of memory retrieval**  
*Organizers:* Mike Anderson and David Badre

- Primate prefrontal pathways to rhinal cortices affect the input and output of the hippocampus - Helen Barbas
- Dissociable prefrontal mechanisms underlie the enhancement or suppression of mnemonic activity in the hippocampus - Michael Anderson
- Separable ventral and dorsal frontal pathways supporting cognitive control of retrieval - David Badre
- A circuit analysis of prefrontal control over memory retrieval - Howard Eichenbaum

12:10 **Adjourn**

1:30 – 3:00 **BBQ, beer and music at la Barbacue**  
900 E. Cesar Chavez, Austin, TX in the Good Life Food Park  
http://labarbecue.com/

**Blanton Art Museum**  
All registrants receive free passes  
200 E. Martin Luther King Jr. Blvd., Austin, TX  
http://blantonmuseum.org/
Open Talk Titles

Nikolai Axmacher  A role of the hippocampus for conflict processing
Morgan Barense  Expertise modifies MTL representations of complex objects
Veronique Bohbot  Protective effects of spatial memory against pathology in the entorhinal cortex in ApoE4 carriers, the highest known risk gene for Alzheimer’s disease
Andrew Budson  Altering response bias in Alzheimer’s disease
Arne Ekstrom  Dissociable roles of the human hippocampal subfields in representation and binding of spatial context
Myra Fernandes  Can encoding context boost memory? Evidence from studies of aging and fMRI
Simona Ghetti  Flexibility in the developing hippocampus
Stephan Hamann  Dynamic neural connectivity during autobiographical memory retrieval
Rik Henson  What patients with focal hippocampal lesions can do, memory-wise
Brice Kuhl  Decoding the contents of memory from lateral parietal cortex
Kevin LaBar  Spatial proximity enhances hedonic value in emotional memory and defensive avoidance
Daniel Levy  Parietal lesion effects on cued recall of pair associate learning
Jarrod Lewis-Peacock  Realtime neurofeedback of working memory usage during prospective remembering
Michael Miller  Dubious memory evidence and criterion flexibility in recognition memory
Elisabeth Murray  Effects of amygdala lesions on behavioral flexibility in rhesus monkeys: Application of reinforcement learning models
Ken Paller  How to use sleep and memory to become a better person
Jesse Rissman  Dissociable profiles of match/mismatch sensitivity in hippocampus during visual associative memory retrieval
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>David Schnyer</td>
<td><em>Sleep, memory and aging: Got rhythm?</em></td>
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<tr>
<td>Jon Simons</td>
<td><em>Exploring recollection in adults with autism spectrum disorder</em></td>
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<td>Mick Rugg</td>
<td><em>Recolletion-related modulation of functional connectivity</em></td>
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<tr>
<td>Nick Turk-Browne</td>
<td><em>Attention stabilizes representations in the human hippocampus</em></td>
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<td>Joel Voss</td>
<td><em>Targeted enhancement of hippocampal networks and associative memory using noninvasive stimulation</em></td>
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<td>Carmen Westerberg</td>
<td><em>Never go to bed angry: Testing the memorial consequences of this old adage</em></td>
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<tr>
<td>Andy Yonelinas</td>
<td><em>Emotional binding in episodic memory</em></td>
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<tr>
<td>Jeff Zacks</td>
<td><em>Preserved encoding of temporal event structure in healthy aging</em></td>
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**Conference Locations**

**A - AT&T Executive Education and Conference Center**
1900 University Ave, Austin, TX 78705  
http://www.meetatattexas.com/  
The AT&T Conference Center is the main hotel for the conference. The opening night reception will be held in the hotel's courtyard.

**B - Blanton Auditorium in the Edgar A. Smith Building**
200 E. Martin Luther King Jr. Blvd., Austin, TX 78701  
All conference talks will be held in the Blanton Auditorium. Included breakfasts, lunches, and coffee breaks will be served in the Blanton Auditorium Foyer.

**C - Blanton Museum of Art**
200 E. Martin Luther King Jr. Blvd., Austin, TX 78701  
http://blantonmuseum.org  
The Blanton Museum of Art is the University of Texas at Austin's main art museum. All registered MDRS attendees will receive free passes to the museum.

**Max's Wine Dive (see map on page 11)**
207 San Jacinto Blvd, Austin, TX 78701  
http://www.maxswinedive.com/  
The MDRS Banquet on Thursday evening will be held at Max's Wine Dive. The location of the restaurant is shown on the restaurant map on page 11.
A Short List of Austin’s Best Food and Drink

Consider this a very small subset of great places in Austin. Check out http://austin.eater.com for more restaurant recommendations and feel free to ask any of the locals, we all have strong opinions on the best local food.

<table>
<thead>
<tr>
<th>Good Food</th>
<th>Good Drinks</th>
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| A. Freedman’s  
2402 San Gabriel St.  
www.freedmensbar.com  
(512) 220-0953 | ![Drink Icon]  
K. Scholz Garten  
1607 San Jacinto Blvd.  
www.scholzgarten.net  
(512) 474-1958 |
| B. Clay Pit  
1601 Guadalupe St.  
www.claypit.com  
(512) 322-5131 | ![Drink Icon]  
L. Pleasant Storage Room  
208 W 4th St.  
www.pleasantrumbar.com  
(512) 322-9921 |
| C. The Blackbird and Henry  
3016 Guadalupe St.  
www.blackbirdandhenry.com  
(512) 394-5264 | ![Drink Icon]  
M. Swift’s Attic  
315 Congress Ave.  
www.swiftsattic.com  
(512) 482-8842 |
| D. Hopfields  
3110 Guadalupe St.  
hopfieldsaustin.com  
(512) 537-0467 | ![Drink Icon]  
N. The Ginger Man  
301 Lavaca St.  
aus.gingermanpub.com  
(512) 473-8801 |
| E. Olamaie  
1610 San Antonio St.  
olamaieaustin.com  
(512) 730-0652 | ![Drink Icon]  
O. East Side Show Room  
1100 E 6th St.  
eastsideshowroom.com  
(512) 467-4280 |
| F. The Dog & Duck Pub  
406 W 17th St.  
www.dogandduckpub.com  
(512) 479-0598 | ![Drink Icon]  
P. Péche  
208 W 4th St.  
www.pecheaustin.com  
(512) 494-4011 |
| G. Dive Bar  
1703 Guadalupe St.  
www.diveaustin.com  
(512) 482-3483 | ![Drink Icon]  
Q. Bacon  
900 W 10th St.  
www.baconaustin.com  
(512) 322-9777 |
| H. La Condesa  
400 W 2nd St.  
www.lacondesaaustin.com  
(512) 499-0300 | ![Drink Icon]  
R. Koriente  
621 E 7th St.  
www.koriente.com  
(512) 275-0852 |
| I. Second Bar + Kitchen  
200 Congress Ave.  
www.congressaustin.com  
(512) 827-2750 | ![Drink Icon]  
S. Lambert’s BBQ  
401 W 2nd St.  
www.lambertsaustin.com  
(512) 494-1500 |
| J. Easy Tiger  
709 E 6th St.  
www.easytigeraustin.com  
(512) 614-4972 | ![Drink Icon]  
T. Kung Fu Saloon  
510 Rio Grande St.  
www.kungfusaloon.com  
(512) 469-0901 |