

# Christopher R. Madan

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## Education

present Ph.D. in Psychology (BEHAVIOUR, SYSTEMS, AND COGNITIVE NEUROSCIENCE)  
University of Alberta, Edmonton, AB, Canada  
SUPERVISORS:  
    Dr. Jeremy Caplan (Department of Psychology & Centre for Neuroscience)  
    Dr. Esther Fujiwara (Department of Psychiatry & Centre for Neuroscience)

2009 B.Sc. SPECIALIZATION in Psychology, with Distinction  
University of Alberta, Edmonton, AB, Canada

## Areas of Specialization

associative memory; computational memory modeling; emotional memory; reinforcement learning;  
neuroimaging of memory

## Professional

2009-pres *Lab administrator & PhD student.*  
Computational Memory Lab (Principle Investigator: Dr. Jeremy Caplan)  
Department of Psychology & Centre for Neuroscience, University of Alberta  
    Previously: Lab administrator & undergraduate research assistant (2006-2009)

2009-pres *PhD Student.*  
Dr. Esther Fujiwara's Lab (Principle Investigator: Dr. Esther Fujiwara)  
Department of Psychiatry & Centre for Neuroscience, University of Alberta  
    Previously: Associate member (2008-2009)

## Awards & Honors

2009 Walter H Johns Graduate Fellowship  
CIHR Frederick Banting and Charles Best Canada Graduate Scholarship - Master's Level (CGS-M)  
Queen Elizabeth II Scholarship - Doctoral Level (QEII-D) [Declined]  
Faculty of Science Dean's Honor Roll

- 2008 Jason Lang Scholarship  
Faculty of Science Highlighted “Getting Involved in Science” Student for November  
Laurence Decore Award for Student Leadership
- 2007 Peter Jang Leadership Award, Honorable Mention
- 2006 Jason Lang Scholarship  
NASA Family Member Award
- 2005 University of Alberta Entrance Scholarship  
Alexander Rutherford Scholarship (Grades 10, 11, & 12)

Publications & Presentations

† – FORTHCOMING

PAPERS

- 2009 1. **Madan, C. R.**, Glaholt, M. G., & Caplan, J. B. (under revision). The influence of item properties on association-memory. *Journal of Memory and Language*.

ORAL PRESENTATIONS

- 2010 4. †**Madan, C. R.**, Glaholt, M. G., & Caplan, J. B. (2010, January). *The influence of item properties on association-memory: Frequency, imageability, and cued recall*. Oral presentation at the University of Alberta Department of Psychology Cognition Seminar Series, Edmonton, AB.
- 2009 3. **Madan, C. R.**, Lau, C. S. M., Caplan, J. B., & Fujiwara, E. (2009, May). *Emotion hurts association-learning*. Oral presentation at the University of Alberta Psychiatry Research Day, Edmonton, AB.
- 2008 2. **Madan, C. R.**, Glaholt, M. G., & Caplan, J. B. (2008, November). *The influence of single-item properties on association memory*. Oral presentation at the University of Alberta Department of Psychology Cognition Seminar Series, Edmonton, AB.
- 2007 1. **Madan, C. R.**, Glaholt, M. G., & Caplan, J. B. (2007, October). *Imagery and the structure of word associations*. Oral presentation at the University of Alberta Department of Psychology Cognition Seminar Series, Edmonton, AB.

POSTER PRESENTATIONS

- 2009 10. **Madan, C. R.** & Caplan, J. B. (2009, August). *Influence of single-item properties on cued recall in distributed memory models*. Poster presentation at Joint Meeting of the Society for Mathematical Psychology and European Mathematical Psychology Group, Amsterdam, Netherlands.
9. **Madan, C. R.**, Lau, C. S. M., Caplan, J. B., & Fujiwara, E. (2009, July). *Emotionality impairs memory for associations*. Poster presentation at the Annual Conference of the Cognitive Science Society, Amsterdam, Netherlands.
8. **Madan, C. R.**, Lau, C. S. M., Caplan, J. B., & Fujiwara, E. (2009, July). *Emotion selectively impairs associative memory*. Poster presentation at the Annual Organization for Computational Neuroscience Meeting, Berlin, Germany.

7. **Madan, C. R.**, Lau, C. S. M., Caplan, J. B., & Fujiwara, E. (2009, May). *Emotion hurts relational learning*. Poster presentation at the Banff Annual Seminar in Cognitive Science, Banff, AB.
6. **Madan, C. R.**, Lau, C. S. M., Caplan, J. B., & Fujiwara, E. (2009, March). *Emotion hurts relational learning*. Poster presentation at the Joseph R. Royce Research Conference in the Department of Psychology at the University of Alberta, Edmonton, AB.
5. **Madan, C. R.**, Lau, C. S. M., Caplan, J. B., & Fujiwara, E. (2009, February). *Emotion hurts intentional association learning with a concurrent advantage for item learning*. Poster presentation at the Emotion Pre-Conference to the Society for Personality and Social Psychology Annual Meeting, Tampa, FL.
- 2008 4. **Madan, C. R.** (2008, November). *Neuromarketing: the next step in market research?* Poster presentation at the University of Alberta Neuroscience Research Day, Edmonton, AB.
3. **Madan, C. R.**, Lau, C. S. M., Fujiwara, E., & Caplan, J. B. (2008, November). *Emotional enhancement of memory for items versus associations*. Poster presentation at the University of Alberta Neuroscience Research Day, Edmonton, AB.
2. **Madan, C. R.**, Glaholt, M. G., & Caplan, J. B. (2008, July). *The effects of single-item properties on association learning*. Poster presentation at the Annual Meeting of the Society for Mathematical Psychology, Washington, DC.
1. **Madan, C. R.**, Glaholt, M. G., & Caplan, J. B. (2008, July). *Associative symmetry generalizes to asymmetric pairs*. Poster presentation at the Annual Conference of the Cognitive Science Society, Washington, DC.

### Supervision

- 2009 Supervised research assistant, Bridgette Gerson (2009, Jun – 2009, Oct).
- Supervised PSYCO 299 student, Jingjing Song (2008, Sept – 2009, Apr).
- 2008 Helped supervise summer research assistant & PSYCO 496 student, Christine Lau (2008, Jul – 2008, Dec).

### Teaching Experience

#### GUEST LECTURES

- 2010 †*PSYCO 371: Neurobiology of Learning and Memory* (2009, Mar 4)  
 Joint lecture on “Emotional Memory” with Adam Hughes.  
 Topic: Emotional Memory: A Human Perspective.
- †*PSYCO 403: Computational Memory Models* (2009, Jan 19)  
 Joint lecture on “Matrix Math in Matlab” with Yang Liu.
- 2009 *PSYCO 371: Neurobiology of Learning and Memory* (2009, Mar 3)  
 Joint lecture on “Emotional Memory” with Adam Hughes.  
 Topic: Emotional Memory: A Human Perspective.

## MARKING ASSISTANT

PSYCO 377: Human Neuropsychology (2009 Fall, 2010 Winter)

PSYCO 371: Neurobiology of Learning and Memory (2010 Winter)

PSYCO 302: Introduction to Cognitive Neuroscience (2009 Fall)

## Professional Activities

### SERVICE POSITIONS

2009-pres Eureka

#### *Editor-in-Chief*

A new initiative being started by few students at the UofA, including myself, is Eureka – the University of Alberta Science Undergraduate Research Journal. In short, undergraduates who write research papers as part of individual studies or honor's projects can publish their research in Eureka, a peer-reviewed journal. As Editor-in-Chief, I meet with faculty and university staff to help build the infrastructure and support for Eureka, try and recruit editors and get submissions, and also deal with technical aspects involved with running a journal.

2009-pres University of Alberta's Graduate Psychology Association (GPA)

#### *Webmaster*

The GPA represents all graduate psychology students at the University of Alberta. My job is to redesign and maintain the website for the student group, helping fellow graduate students stay current with information relevant to them.

2009-pres Association for Psychological Science (APS)

#### *Campus Representative*

As a campus representative, I represent the Association for Psychological Science at the University of Alberta. This primarily involves passing on announcements from the APS to graduate and undergraduate students at the university regarding upcoming conferences, granting opportunities, and student research awards.

2009-pres Memory Perspectives Reading Group (MPRG)

#### *Founder/Chair*

MPRG is a weekly reading group where psychology and neuroscience graduate students discuss topics pertinent to memory research in order to broaden their understanding of memory research and related fields, as well as practice presenting their research to an audience.

2006-2009 University of Alberta's Undergraduate Psychology Association (UPA)

#### *Vice-President of General Operations & Webmaster*

UPA represents all undergraduate psychology students at the University of Alberta. My job was to help coordinate the other vice-presidents' portfolios and to maintain the website, informing all undergraduates in the department of academic and social events.

2007-2008 University of Alberta Science Undergraduate Society (UASUS)

#### *President* (Involved with the group, in other roles, starting in 2006.)

UASUS is the student group that represents all undergraduate students in the Faculty of Science (at the University of Alberta). I oversaw matters pertaining to all undergraduates in the Faculty of Science. Responsibilities include periodic meetings with the Dean, Students' Union, and representatives from other faculties and science departments.

2006-2008 University of Alberta's Neuroscience Students' Association (NSA)

#### *Vice-President of Communications & Webmaster*

NSA represents all undergraduate students in the neuroscience program (at the University of Alberta). I redesigned the website for the group and wrote the bi-monthly newsletter.

## EVENTS & PRESENTATIONS

2009 Individual Studies & Lab Volunteering Forum, *Department of Psychology*

*University of Alberta* (2009, Mar 19)

Guest speaker at the annual Individual Studies & Lab Volunteering Forum put on by the department for undergraduates interested in getting involved in research.

Topic: Individual Studies & Lab Volunteering: A Student's Perspective.

University Open House

*University of Alberta* (2009, Sep 20)

Volunteered at the University of Alberta's Open House, on behalf of the Department of Psychology.

## PROFESSIONAL AFFILIATIONS

2009 Society for Mathematical Psychology (SMP)

Association for Psychological Science (APS)

2008 Cognitive Science Society (CSS)

## Academic References

Jeremy Caplan	Assistant Professor	<i>jcapan@ualberta.ca</i>
Esther Fujiwara	Assistant Professor	<i>efujiwara@ualberta.ca</i>
Anthony Singhal	Assistant Professor	<i>asinghal@ualberta.ca</i>