

## Ekaterina Denkova (Ninova)

Postdoctoral Research Associate | Assistant Director Neuroimaging Facility  
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### SUMMARY OF RESEARCH INTERESTS

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Topics: Cognitive and affective neuroscience; interaction of autobiographical memory with emotion and various cognitive functions; autobiographical relevance; coping with emotional memories; emotion regulation; mindfulness; mind wandering; individual differences.

Methods: Brain imaging methods (fMRI, ERPs), psychophysiological measurements (e.g., EDA), and cognitive and personality assessments.

### ACADEMIC HISTORY

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Postdoctoral Research Associate, 2014-Present  
Department of Psychology, University of Miami (USA)  
Advisor: Dr. Amishi Jha

Postdoctoral Research Associate, 2008-2010  
Department of Psychiatry, University of Alberta (Canada)  
Advisor: Dr. Florin Dolcos

Ph.D., Medical Sciences-Neuropsychology, University of Strasbourg (France), 2003-2006  
Advisor: Dr. Liliann Manning

M.A., Neuropsychology, University of Toulouse (France), 2002-2003  
Advisor: Dr. Liliann Manning

M.A., Cognitive and Experimental Psychology, University of Strasbourg (France), 2001-2002  
Advisor: Dr. Marie-Noëlle Metz-Lutz

B.A., Psychology, University of Strasbourg, (France), 1998-2001

### PUBLICATIONS

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#### Peer-Reviewed Journal Articles

24. Brudner E, **Denkova E**, Paczynski M & Jha A (in press). The Role of Expectations and Habitual Emotion Regulation in Emotional Processing: an ERP Investigation. *Emotion*
23. Dolcos F & **Denkova E** (2016). Dissocier les Effets Facilitants et les Effets Délétères de l'Emotion sur la Cognition. *Santé Mentale au Québec*, 41 (1), 15-34.
22. Ernst A, Noblet V, **Denkova E**, Blanc F, De Seze J, Gunot D & Manning L (2016). Distinct and Common Cerebral Activation Changes during Mental Time Travel in Relapsing-Remitting Multiple Sclerosis Patients. *Brain Imaging Behav*, 10 (1), 296-313.
21. **Denkova E**, Dolcos S & Dolcos F (2015). Neural Correlates of 'Distracting' from Emotion during Autobiographical Recollection: A Functional MRI Investigation. *Social Cognitive and Affective Neuroscience*, 10 (2), 219-230.

20. Ernst A, Noblet V, **Denkova E**, Blanc F, De Seze J, Gunot D & Manning L (2015). Functional Cerebral Changes in Multiple Sclerosis Patients during an Autobiographical Memory Test. *Memory*, 23, 1123-39.
19. **Denkova E** & Manning L (2014). fMRI Contributions to Addressing Autobiographical Memory Impairment in Temporal Lobe Pathology. *World Journal of Radiology*, 6 (4), 93-105.
18. Dolcos F & **Denkova E** (2014). Current Emotion Research in Cognitive Neuroscience: Linking Enhancing and Impairing Effects of Emotion on Cognition. *Emotion Review*, 6, 362-375.
17. **Denkova E**, Dolcos S & Dolcos F (2013). The Effect of Retrieval Focus and Emotional Valence on Inferior Frontal Cortex Activity during Autobiographical Recollection. *Front Behav Neurosci* doi: 10.3389/fnbeh.2013.00192
16. **Denkova E**, Dolcos S & Dolcos F (2013). The Effect of Retrieval Focus and Emotional Valence on Medial Temporal Lobe Activity during Autobiographical Recollection. *Front Behav Neurosci* doi: 10.3389/fnbeh.2013.00109
15. Manning L, **Denkova E** & Unterberger L (2013). Autobiographical Significance in Past and Future Public Semantic Memory: a Case-Study. *Cortex*, 49, 2007-20.
14. Iordan A\*, Dolcos S\*, **Denkova E** & Dolcos F (2013). Sex Differences in the Response to Emotional Distraction: an Event-Related fMRI Investigation. *Cognitive, Affective, & Behavioral Neuroscience*, 13 (1), 116-34.
13. **Denkova E**, Dolcos S & Dolcos F (2012). Reliving Emotional Personal Memories: Affective Biases Linked to Personality and Sex-Related Differences. *Emotion*, 12 (3), 515-28.
12. Wong G, Dolcos S, **Denkova E**, Morey R, Wang L, McCarthy G & Dolcos F (2012). Brain Imaging Investigation of the Impairing Effect of Emotion on Cognition. *J Vis Exp*, (60). pii: 2434. doi: 10.3791/2434.
11. Dolcos F, **Denkova E** & Dolcos S (2012). Neural Correlates of Emotional Memories: A Review of Evidence from Brain Imaging Studies. *Psychologia*, 55, 80-111.
10. **Denkova E**, Chakrabarty T, Dolcos S & Dolcos F (2011). Brain Imaging Investigation of the Neural Correlates of Emotional Autobiographical Recollection. *J Vis Exp*, (54). pii: 2396. doi: 10.3791/2396.
9. Dolcos S, Sung K, **Denkova E**, Dixon RA & Dolcos F (2011). Brain Imaging Investigation of the Neural Correlates of Emotion Regulation. *J Vis Exp* (54), pii: 2430. doi: 10.3791/2430.
8. **Denkova E**, Wong G, Dolcos S, Sung K, Wang L, Coupland N & Dolcos F (2010). The Impact of Anxiety-Inducing Distraction on Cognitive Performance: a Combined Brain Imaging and Personality Investigation. *PLoS One* 5, e14150.
7. Dolcos F & **Denkova E** (2008). Neural Correlates of Encoding Emotional Memories: A Review of Functional Neuroimaging Evidence. *Cell Science Reviews*, 5, 78-122.
6. Botzung A, **Denkova E** & Manning L (2008). Experiencing Past and Future Personal Events: Functional Neuroimaging Evidence on the Neural Bases of Mental Time Travel. *Brain and Cognition*, 66, 202-12.
5. Botzung A, **Denkova E**, Ciuciu P, Scheiber C & Manning L (2008). The Neural Bases of the Constructive Nature of Autobiographical Memories Studied with a Self-Paced fMRI Design. *Memory*, 16, 351-63.
4. Botzung A, **Denkova E** & Manning L (2007). Psychogenic Memory Deficits Associated with Functional Cerebral Changes: an fMRI Study. *Neurocase*, 13, 378-84.
3. **Denkova E**, Botzung A & Manning L (2006). Neural Correlates of Remembering/Knowing Famous People: an Event-Related fMRI Study. *Neuropsychologia*, 44, 2783-2791.

2. **Denkova E**, Botzung A, Scheiber C & Manning L (2006). Implicit Emotion during Recollection of Past Events: a Nonverbal fMRI Study. *Brain Research*, 1078, 143-150.
1. **Denkova E**, Botzung A, Scheiber C & Manning L (2006). Material-Independent Cerebral Network of Re-experiencing Personal Events: Evidence from Two Parallel fMRI Experiments. *Neuroscience Letters*, 407, 32–36.

### Book Chapters

4. Dolcos F, Katsumi Y, **Denkova E**, Weymar M & Dolcos S (in press). Current Issues and Emerging Directions in the Impact of Emotion on Memory: A Review of Evidence from Brain Imaging Investigations. To appear in *Memory in Social Context*. Edited by Takashi Tsukiura and Satoshi Umeda. Springer.
3. Dolcos F, Katsumi Y, **Denkova E** & Dolcos S (in press). Factors Influencing the Opposing Effects of Emotion on Cognition: A Review of Evidence from Research on Visual Perception and Episodic Memory. To appear in *Physics of the Mind and Brain Disorders: Integrated Neural Circuits Supporting the Emergence of Mind* (Springer Series in Cognitive and Neural Systems, New York, NY). Edited by Ioan Opris and Manuel F. Casanova. Springer.
2. Katsumi Y, **Denkova E** & Dolcos S (2017). Personality and Memory. To appear in *Encyclopedia of Personality and Individual Differences*. Edited by Virgil Zeigler-Hill and Todd K. Shackelford. Springer.
1. Dolcos F & **Denkova E** (2015). Dissociating Enhancing and Impairing Effects of Emotion on Cognition. *Emerging Trends in the Social and Behavioral Sciences: An Interdisciplinary, Searchable, and Linkable Resource*, 1–18. Edited by Robert Scott and Stephan Kosslyn. © 2015 John Wiley & Sons, Inc. ISBN 978-1-118-90077-2.

### Unpublished Thesis (in English)

**Denkova E** (2006). Neural Bases of Autobiographical Memory: How Personal Recollections Interact with Emotion and Influence Semantic Memory. University of Strasbourg, France. <http://scd-theses.u-strasbg.fr/1172/01/Denkova2006.pdf>

### PRESENTATIONS

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**Denkova E** (2015). Neural Correlates Underlying Subjective and Objectives Indices of Mind Wandering. NIS, University of Miami, USA.

**Denkova E** (2013). Memory and Emotion: Neuroimaging and Behavioral Investigations. University College of London, UK.

**Denkova E** (2010). The Impact of Emotion and Emotion-Related Personality Traits on Memory: Combining Behavioural and Brain Imaging Approaches. Centre for Neuroscience, University of Alberta, Canada.

**Denkova E** (2008). Neural Bases of Autobiographical Memory: How Personal Recollections Interact with Emotion and Influence Semantic Memory. Alberta Cognitive Neuroscience Seminars, Canada.

**Denkova E** (2006). Implicit Emotion during Recollection of Past Events: a Nonverbal fMRI Study. Workshop on Emotion and Spatial Memory, Réseau Grand-Est des Sciences Cognitives, Strasbourg, France.

**Denkova E** (2004). Processing faces with different instructions: fMRI studies. The British Neuropsychological Society Meeting, National Hospital, London, UK.

**Denkova E**, Botzung A & Ritter E (2004). Neuroanatomy of Memory in Mild Cognitive Impairment. Memory Workshop, Freiburg, Germany.

**Denkova E** (2004). Recollections Cued with Photographs: an Event-Related fMRI Study. Meeting of the Institute of Biological Physic, University Hospital of Strasbourg, France.

**Denkova E** (2003). Autobiographical Memory: Experimentation. Meeting of Imagery and Cognition, Réseau Grand-Est des Sciences Cognitives, Nancy, France.

## Posters

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**Denkova E**, Krinsky M, Morrison A & Jha A (2016). The role of confidence in self-reported mind wandering and task engagement: an fMRI investigation. Society for Neuroscience Annual Meeting in San Diego, CA.

Krinsky M, **Denkova E** & Jha A (2016). The influence of cognitive and affective factors on mind wandering. International Congress of Psychology, Japan.

Brudner E, Ramos N, **Denkova E**, Morrison A, Cullen M, MacAuley J & Jha A (2016). The influence of training program duration on cognitive and psychological benefits of mindfulness and compassion training in military spouses. International Symposium for Contemplative Studies, San Diego, CA.

**Denkova E**, Chakrabarty T, Suen K, Dolcos S & Dolcos F (2010). The effect of retrieval focus during recollection of affective autobiographical memories: a functional magnetic resonance imaging investigation. The 17<sup>th</sup> Annual of CNS Meeting, Montreal, Canada.

Dolcos F, **Denkova E**, Wong G, Dolcos S & Coupland N (2010). The effect of individual variation in trait social anxiety on the neural correlates of the response to transient anxiety inducing emotional distraction. The 17<sup>th</sup> Annual of CNS Meeting, Montreal, Canada.

Flor-Henry S, Sung K, **Denkova E**, Dolcos S & Dolcos F (2010). How much can I trust you? An fMRI investigation of the neural mechanisms underlying the impact of social interactions on decision making. The 17<sup>th</sup> Annual of CNS Meeting, Montreal, Canada.

Dolcos S, Sung K, **Denkova E**, Suen K, Li J, Dixon R & Dolcos F (2010). Age-related differences in the effect of automatic and deliberate emotion regulation: a functional magnetic resonance imaging investigation. The 17<sup>th</sup> Annual of CNS Meeting, Montreal, Canada.

**Denkova E**, Dolcos S, Chakrabarty T & Dolcos F (2010). The role of emotion regulation strategies and personality traits in the recollection of autobiographical memories. The 11 Annual Meeting of the SPSP, Las Vegas, USA.

Sung K, Dolcos S, **Denkova E**, Argo J, Masuda T & Dolcos F (2010). Neural mechanisms underlying the impact of social interactions on decision making: an fMRI investigation. The 11 Annual Meeting of the SPSP, Las Vegas, USA.

**Denkova E**, Wong G, Sabourin K, Sung K, Dolcos S & Dolcos F (2009). Opposing pattern of brain activity in perceptual and executive brain regions linked to individual variation in social anxiety: An fMRI investigation. The 16<sup>th</sup> Annual of CNS Meeting, San Francisco, USA.

Dolcos S, Sung K, **Denkova E** & Dolcos F (2009). Goal inducement and emotion control: the effect of conscious and nonconscious goal regulation on the response to emotional stimulation. The 16<sup>th</sup> Annual of CNS Meeting, San Francisco, USA.

Dolcos F, Dolcos S, **Denkova E** & Wong G (2009). Sex-related differences in emotion regulation strategies in coping with social anxiety: a combined personality and brain imaging investigation. The 16<sup>th</sup> Annual of CNS Meeting, San Francisco, USA.

**Denkova E**, Botzung A, Scheiber C & Manning L (2004). An event-related fMRI study of autobiographical memory retrieval cued with photographs of next of kin faces. 10<sup>th</sup> annual meeting of the OHBM, Budapest, Hungary.

Botzung A, **Denkova E**, Scheiber C & Manning L (2004). A case of autobiographical memory selectively impaired: comparisons with 8 normal controls in a self-paced event-related fMRI design. 10<sup>th</sup> annual meeting of the OHBM, Budapest, Hungary.

## COMPETITIVE FELLOWSHIPS

Canadian Institutes of Health Research-Wyeth Pharmaceuticals Research Fellowship	2008-2010
French Ministry of National Education, Research & Technology Fellowship	2003-2006
Neurex Doctoral Fellowship (Eltem) (declined)	2003

## TEACHING/MENTORING EXPERIENCE

Advising, University of Miami 2015- Present

- E. Brudner, Research Assistant [resulted in conference posters and paper]
- J. Dunn, Undergraduate Student [resulted in a submitted conference poster]
- K. Zayan, E. Homedi, 2017 Honors Thesis Students [resulted in a submitted conference poster]
- Daily work with RAs, graduate and undergraduate students

Advising, University of Alberta, Canada 2008-2010

- G. Wong, Honors Thesis Student [resulted in a conference poster and paper]
- T. Chakrabarty, MD Student [resulted in a conference poster and paper]

Teaching, University of Strasbourg, France 2004-2006

- Memory and Neuroimaging
- Neuroimaging Methods
- Neuropsychology of Neurodegenerative Diseases

## SERVICE

- Assistant Director Neuroimaging Facility, Coral Gables Campus, University of Miami Aug 2016-
- Ad hoc reviewer:

*Biological Psychology*  
*Cognition and Emotion*  
*Emotion*  
*Frontiers in Psychology*  
*Human Brain Mapping*

*NeuroImage*  
*Neuropsychologia*  
*Psychiatry Research*  
*Psychophysiology*  
*Social Cognitive and Affective Neuroscience*

- Leading mock scanner tours and presentations for college and middle school students, visitors
- Presenting at Open House (11/2015)
- Volunteer Judge at the Undergraduate Research, Creativity, Innovation Forum (RCIF), University of Miami, 2016, 2017

## MEDIA COVERAGE

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- New Study Suggests a Better Way to Deal with Bad Memories:

[http://www.huffingtonpost.com/2014/04/22/lessen-pain-bad-memories\\_n\\_5175992.html?&ncid=tweetlnkushpimg00000033%C2%A0%C2%A0](http://www.huffingtonpost.com/2014/04/22/lessen-pain-bad-memories_n_5175992.html?&ncid=tweetlnkushpimg00000033%C2%A0%C2%A0)

<http://www.sciencedaily.com/releases/2014/04/140418141121.htm>

- L'extraversion : un gage de bonheur ? par Marc Olano, Le Monde de l'Intelligence, 34, 2014

<https://marcolano.files.wordpress.com/2015/12/lmi34-extraversion.pdf>

## ACADEMIC REFERENCES

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University of Miami, USA

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Dr. Florin Dolcos

Assistant Professor of Psychology

University of Illinois at Urbana-Champaign, USA

Email: fdolcos@illinois.edu

Dr. Liliann Manning

Professor of Neuropsychology

University of Strasbourg, France

Email: manning@unistra.fr

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NOTE: For the period 2010-2014, I took maternity leave and served as Unpaid Research Consultant for Dr. Florin Dolcos' group and Dr. Liliann Manning's team; this resulted in a number of recently published peer-reviewed papers with these teams.