

# MICHAEL ANDRIC

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Born: February 13, 1981 – Los Angeles, CA

## Education

- 2005-2011 Ph.D. in Cognition and Cognitive Neuroscience, Department of Psychology, The University of Chicago
- 1999-2003 B.A. in Psychology, University of California, Santa Cruz

## Grants, Honors & Awards

- 2005-2011 Combined University Unendowed Fellowship / Teaching Assistantship, The University of Chicago
- 2003 Highest Honors, Department of Psychology, University of California, Santa Cruz
- 2000-2003 Cal Grant

## Publications

### Journal Articles

- 2010 Price, C., Crinion, J.T., Leff, A.P., Richardson, F.M., Schofield, T.M., Prejawa, S., Ramsden, S., Gazarian, K., Lawrence, M., Ambridge, L., Andric, M., Small, S.L., Seghier, M.L. (2010). Lesion sites that predict the ability to gesture how an object is used. *Archives Italiennes de Biologie*, 148, 243-258.
- Andric, M., & Small, S.L. (2010). Functional imaging of putative human mirror neuron systems in neurological disease. *Exp. Neurol.*, 221, 5-9 doi:10.1016/j.expneurol.2009.10.014
- 2009 Kenny, S., Andric, M., Boker, S.M., Neale, M.C., Wilde, M., & Small, S.L. (2009). Parallel workflows for data-driven structural equation modeling in functional neuroimaging. *Front.*

*Neuroinform*, 3:34. doi:10.3389/neuro.11.034.2009

Small, S.L., Wilde, M., Kenny, S., Andric, M., & Hasson, U. (2009). Database-managed Grid-enabled analysis of neuroimaging data: The CNARI framework. *International Journal of Psychophysiology*, 73, 62-72. doi:10.1016/j.ijpsycho.2009.01.010

- 2006 Gibbs, R.W., Gould, J.J., & Andric, M. (2006). Imagining metaphorical actions: embodied simulations make the impossible plausible. *Imagination, Cognition and Personality*, 25, 221-238

### Chapters

- 2012 Mashal, N., Andric, M., & Small, S.L. Motor and non-motor language representations in the brain. In: Faust, M. (Ed.), *The handbook of the neuropsychology of language* (pp. 276-293). Oxford, England: Wiley-Blackwell.

### Under Review

Andric, M., Solodkin, A., Buccino, G., Goldin-Meadow, S., Rizzolatti, G., & Small, S.L. (2011). *Neural responses to observing symbolic hand gestures overlap with those for language comprehension and action understanding.*

Andric, M., & Small, S.L. (2011). *Gesture's neural language.*

### In Preparation

Andric, M., & Small, S.L. (manuscript in preparation). *Data-driven identification of functional networks that relate brain activity in natural comprehension.*

Andric, M., & Small, S.L. (manuscript in preparation). *Brain responses to co-speech gestures and their represented meanings.*

### Conference Proceedings

- 2011 Andric, M. & Small, S.L. (2011). Functional community structure for discourse comprehension and gesture processing. *Presented at the Neurobiology of Language Conference, Annapolis, MD, USA.*

Andric, M. & Small, S.L. (2011). Co-speech gesture processing in natural conversation. *Presented at the Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Canada.*

- 2010 Andric, M. & Small, S.L. (2010). Studying the biology of co-speech gesture processing in natural settings. *Presented at the Neurobiology of Language Conference, San Diego, CA, USA.*

Andric, M. & Small, S.L. (2010). Understanding brain function in natural settings. *Presented at the Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.*

2009 Andric, M., & Small, S.L. (2009). Hemodynamic signal fluctuation due to occurrence of cospeech gestures in audiovisual story comprehension. *Presented at the Neurobiology of Language Conference, Chicago, IL, USA.*

Andric, M. & Small, S.L. (2009). HRF phase dynamics in observing the same semantic information presented manually and orally. *Presented at the Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, USA.*

2008 Hasson, U., Andric, M., Kenny, S., Wilde, M., & Small S.L. (2008). An architecture for GRID-based analysis of Neuroimaging data using relational databases and the SWIFT workflow engine. *Frontiers in Neuroinformatics. Conference Abstract: Neuroinformatics 2008.* doi: 10.3389/conf.neuro.11.2008.01.118

Andric, M., Hasson, U., & Small, S.L. (2008). Neuroimaging analysis and visualization tools for remote collaboration. *Presented at the Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia.*

Chen, E., Andric, M., & Small, S.L. (2008). Evaluating the sensitivity of a peak fit analysis to speech-associated manual gestures during naturalistic audiovisual language comprehension. *Presented at the Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia.*

Andric, M., Solodkin, A., Buccino, G., Rizzolatti, G., Goldin-Meadow, S., & Small, S.L. (2008). Grasping meaning from action observation. *Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA, USA.*

2007 Small, S.L., Andric, M., Solodkin, A., Buccino, G., Rizzolatti, G., & Goldin-Meadow, S. (2007). Hand observation and language: emblems, speech, and grasping. *Presented at the Annual Meeting of the Organization for Human Brain Mapping, Chicago, IL, USA.*

## Invited Talks

2011 Andric, M. (2011). The CNARI framework: Computational workflows and infrastructure for neuroimaging data analysis. Talk given at the 8th Postgraduate Academic Forum of Beihang University, Beijing, China.

2008 Andric, M. (2008). Language. Lecture given in *Cognitive Psychology* taught by Sian Beilock at The University of Chicago, Chicago, IL, USA.

Andric, M. (2008). Database enabled visualization and analysis of neuroimaging data. Invited talk given at the Scientific and Statistical Computing Core of the NIMH, Bethesda, MD, USA. (In collaboration with Uri Hasson, Anthony Dick, & Steven Small).

## Professional Memberships

2010-  
Present Society for Neuroscience

2008- Organization for Human Brain Mapping  
Present

2007- Cognitive Neuroscience Society  
Present

## **Committee and Service Work**

### **Ad-hoc Reviewer**

*Brain and Language, Cerebral Cortex, Journal of Neurophysiology*

### **Conference Service**

Program committee, *Neurobiology of Language Conference, Chicago, IL, USA 2009*

## **Teaching**

2009 Teaching Assistant for *Fundamentals of Psychology* (Winter Quarter), The University of Chicago

2008 Teaching Assistant for *Cognitive Psychology* (Autumn Quarter), The University of Chicago

2007-2008 Teaching Intern for *Mind I, II, & III* (Autumn, Winter, & Spring Quarters), Social Sciences Division Core Course, The University of Chicago

## **Technical Skills**

**Audiovisual software** - Adobe Illustrator CS5, Adobe Photoshop CS5, OmniGraffle

**Database software** - MySQL, PostgreSQL

**fMRI analysis tools** - AFNI, FreeSurfer, SUMA

**Programming** - CSS, Graphviz, Grid computing, HTML, Perl, Python, Swift, Unix shell

**Statistical Packages** - MATLAB, Octave, R, SAS, SPSS

**Stimulus Presentation** - MATLAB, Presentation

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Last updated: January 6, 2012