

# Michael Andric

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Born: February 13, 1981 – Los Angeles, CA

## Current Position

*Ph.D. Student*, Program in Cognition and Cognitive Neuroscience, Department of Psychology, The University of Chicago

## Education

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

## Grants, Honors & Awards

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

## Publications

### Journal Articles

- 2009 Andric, M., Small, S.L. (2009). Functional imaging of putative human mirror neuron systems in neurological disease. *Exp. Neurol.* [doi:10.1016/j.expneurol.2009.10.014](https://doi.org/10.1016/j.expneurol.2009.10.014)
- 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

### **Submitted or In Revision**

2009 Andric, M., Solodkin, A., Buccino, G., Goldin-Meadow, S., Rizzolatti, G., & Small, S.L. (submitted). Neural responses to observing symbolic hand gestures overlap with those for language comprehension and action understanding.

### **In Preparation**

Mashal, N., Andric, M., & Small, S.L. Motor and non-motor representations of language in the brain. To appear in M. Faust (Ed.), *Advances in the Neural Substrates of Language: Toward a synthesis of Basic Science and Clinical Research*. Malden, MA: Wiley-Blackwell, forthcoming.

Andric, M., (in preparation). Using a local RDBMS and Grid-enabled computing infrastructure for neuroimaging analysis, visualization, and data-sharing: Practical applications of CNARI with examples.

Gupta, A., Hasson, U., Andric, M., & Small, S.L. (in preparation). A method for fMRI analysis based on self-similar responses over time.

Andric, M., Solodkin, A., Buccino, G., Rizzolatti, G., Goldin-Meadow, S., & Small, S.L. (in preparation). HRF dynamics in cortical areas for observation of manual actions and spoken language.

### **Refereed Conference Proceedings**

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

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

2008-Present Organization for Human Brain Mapping

2007-Present Cognitive Neuroscience Society

## Committee and Service Work

### **Ad-hoc Reviewer**

*Brain and Language, 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** - OmniGraffle, Photoshop

**Database software** - MySQL, PostgreSQL

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

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

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

**Stimulus Presentation** - MATLAB, Presentation