

ELIZABETH M. WAKEFIELD

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EDUCATION & PROFESSIONAL EXPERIENCE

Postdoctoral Scholar, University of Chicago Advisor: Prof. Susan Goldin-Meadow	2013-present
Ph.D., Psychology, Indiana University Bloomington Advisor: Prof. Karin James Dissertation: <i>Development of Gesture Perception & the Role of Gesture in Learning</i>	2013
B.A., Psychology & Music, Kalamazoo College <i>Magna cum laude</i> with honors in Psychology Advisors: Profs. Robert Batsell, Jr. & Siu-Lan Tan Honors Thesis: <i>Effects of Inflation on Taste-Potentiation of Taste Aversion</i>	2008

HONORS, GRANTS, & AWARDS

NSF Collaborative Grant: The Role of Gesture in Word Learning PIs: S. Goldin-Meadow & K. James	2014-2017
Provost's Travel Award for Women in Science, Indiana University (\$500)	2014
Imaging Research Facility Pilot Grant, Indiana University (40 hours scan time)	2013
J. R. Kantor Graduate Student Award, Indiana University	2013
Outstanding Graduate Student Instructor Award, Indiana University	2012
Service-Learning Graduate Fellowship Recipient, Indiana University	2012
Commendation on Doctoral Qualifying Exams, Indiana University	2012
Honorable Mention, NSF Graduate Research Fellowship	2012
Full Travel Stipend, International Society for Gesture Studies Summer Program	2012
Outstanding Instructor for Experimental Methods, Indiana University	2011
Outstanding Professor Award, Kappa Alpha Theta, Indiana University Chapter	2010
Student Presentation Travel Award, Society for Music Perception and Cognition	2010
Phi Beta Kappa	2008
Donald W. Van Liere Prize in Psychology Research, Kalamazoo College	2008
Donald W. Van Liere Prize in Psychology Coursework, Kalamazoo College	2008
Pass with Distinction, Comprehensive Exam in Psychology, Kalamazoo College	2008
Honors on Senior Individualized Project, Kalamazoo College	2008
Student Researcher Prize, Southwestern Comparative Psychology Association	2008
Student-Faculty Summer Research Grant, Kalamazoo College	2007
Freshman Prize in Psychology, Kalamazoo College	2005
Alpha Lambda Delta	2005
Merit-Based Scholarship, Kalamazoo College	2004-2008

PUBLICATIONS

- Novack, M., **Wakefield, E. M.**, & Goldin-Meadow, S. (2016). What makes a movement a gesture? *Cognition*, online first. (*Novack and Wakefield are co-first authors*)
- Wakefield, E. M.** & James, K. H. (2015). Effects of learning with gesture on children's understanding of a new language concept. *Developmental Psychology*, *51*, 1105-1114.
- Church, R. B., Kelly, S. D., & **Wakefield, E. M.** (2015). Measuring Gesture. In D. Matsumoto, H. C. Hwang, & M. G. Frank (Eds.), *APA Handbook of Non-Verbal Communication*.
- Wakefield, E. M.**, James, T. W., & James, K. H. (2013). Neural correlates of gesture processing across human development. *Cognitive Neuropsychology*, *30*, 58-76.
- Wakefield, E. M.** & James, K. H. (2011). The effects of sensori-motor learning on melody processing across development. *Cognition, Brain, & Behavior: An Interdisciplinary Journal*, *15*, 505-534.
- Batsell, W. R., Jr., **Wakefield, E.**, Ulrey, L. A., Reimink, K., Rowe, S. L., & Dexheimer, S. (2012). CS-US interval determines the transition from overshadowing to potentiation with flavor compounds. *Learning & Behavior*, *40*, 180-194.
- Tan, S. L., **Wakefield, E. M.**, & Jeffries, W. P. (2009). Musically untrained college students' interpretations of musical notation: Sound, silence, loudness, duration, and temporal order. *Psychology of Music*, *37*, 5-24.

PEER-REVIEWED CONFERENCE PROCEEDINGS

- Cooperrider, K., **Wakefield, E. M.**, & Goldin-Meadow, S. (2015). More than meets the eye: Gesture changes thought, even without visual feedback. In *Proceedings of the 37th Annual Cognitive Science Society*, Pasadena, CA.
- Tan, S. L., Spackman, M. P., & **Wakefield, E. M.** (2008). Effects of diegetic and non-diegetic music on viewers' interpretations of film. In *Proceedings of the 10th International Conference of Music Perception and Cognition (ICMPC, 2008)*, Sapporo, Japan.

MANUSCRIPTS IN PROGRESS

- Wakefield, E. M.**, Congdon, E., Novack, M., Goldin-Meadow, S. & James, K. H. (under revision). Learning math by hand: The neural effects of gesture-based instruction in 8-year-old children.
- Wakefield, E. M.** & James, K. H. (in prep). How understanding speech changes the neural processing of co-speech metaphoric gesture: A developmental neuroimaging study.

TEACHING EXPERIENCES

INSTRUCTOR

Independently designed and taught courses listed below (Introduction to Psychology and Experimental Methods were taught twice). Each course was taught to a small class size (10-30 students), and included experimental design and APA writing components.

Senior Capstone Seminar: Psychology of Music , Elmhurst College IL	2015
Introduction to Psychology (Honors) , Indiana University, Bloomington IN	2011-2012
Experimental Methods , Indiana University, Bloomington IN	2010

ASSISTANT INSTRUCTOR

Assisted with lecturing, test design, grading and one-on-one instruction for courses listed below.

Cognitive Neuroscience , Indiana University, Bloomington IN	2013
Lab in Human Learning and Cognition , Indiana University, Bloomington IN	2012
Development of Brain and Behavior , Indiana University, Bloomington IN	2009
Introduction to Psychology , Indiana University, Bloomington IN	2008
Physiological Psychology , Kalamazoo College MI	2008
Psychology of Music , Kalamazoo College MI	2008
Experimental Methods , Kalamazoo College MI	2008

UNDERGRADUATE MENTORING EXPERIENCES

SENIOR HONORS THESIS SUPERVISOR

Mentored undergraduate students, listed below, on their honors theses. Assisted students with study design, data collection and analysis. Provided feedback on drafts of students' written theses.

Julia Villarreal , Kalamazoo College Thesis: <i>How children describe representational gesture</i>	2015-2016
Jessica Jankowski , Kalamazoo College Thesis: <i>Learning words through gesture or concrete action</i>	2014-2015
Arianna Gutierrez , Indiana University Thesis: <i>Effects of gesture perception and production on learning</i>	2012-2013
Christin Neary , Indiana University Thesis: <i>Investigating neural correlates in vocalists learning melodies</i>	2009-2010

UNDERGRADUATE RESEARCH SUPERVISOR

Mentored undergraduate students on various research projects. Taught students how to collect and code behavioral data, collect fMRI data, analyze data via SPSS, R, and BrainVoyager, and led article-reading groups to introduce students to reading scientific articles.

University of Chicago mentees: Aileen Campanaro (2014-2015) • Emily Kubota (visiting student from Pomona College, summer 2015) • William Loftus (2014-2015) • Cassandra Sarnell (2014-2015)

Indiana University mentees: Paroma Bose (2010-2011) • Emily Dubnicka (2010-2011) • Caroline Giansi (2010-2011) • Portia Goodin (2011-2013) • Arianna Gutierrez (2010-2013) • Natalie Gutkin (2012-2013) • Alyssa Kersey (2009-2013) • Christin Neary (2008-2009) • Emily Thomas (2010-2012)

HONORS RESIDENTIAL FELLOW (2011-2013)

Mentored students in an honors dormitory. Led fun and educational activities including a tour of the neuroimaging facilities at Indiana University, and lecture about neuroimaging techniques.

INVITED TALKS

Using our Hands to Change our Minds: How Gesture and Action Shape Cognition 2015
Psychology Department Colloquium Series, Kalamazoo College

Developmental Neuroimaging: Background, Considerations, & Applications 2015
Colloquium Series, Butler University

UNIVERSITY SERVICE

Founding Member, University of Chicago Postdoctoral Association 2013-present

Guest Lecturer, *“Introduction to Neuroimaging Research Methods”* 2015
Experimental Methods, Loyola University

Guest Lecturer, *“Gesture and Language”* 2014
Language Development, Loyola University

Guest Lecturer, *“Neural Basis of Selective Attention”* 2014
Cognitive Psychology, University of Chicago

Current Student Presenter, Developmental Graduate Student Recruitment 2009-2013

Developmental Seminar Coordinator, Indiana University 2010-2011

Workshop Leader & Facilitator, Associate Instructor Orientation, Indiana University 2013

Guest Lecturer, *“Using neuroimaging to understand development”* 2013
Developmental Cognitive Neuroscience, Indiana University 2013

Volunteer, Greek Award and Assessment Program, Indiana University 2012

Guest Lecturer, *“Introduction to Neuroimaging”* 2009
Introduction to Psychology, Kalamazoo College

PROFESSIONAL SERVICE & OUTREACH

Volunteer Judge , Chicago Area Undergraduate Research Symposium	2015
Outreach Speaker , “ <i>Research at UofC</i> ”, University of Chicago Laboratory School (K-12)	2015
Outreach Speaker , “ <i>The Brain!</i> ”, Templeton Elementary School, Bloomington IN	
Volunteer , Brownie Math and Science Camp, Bloomington IN	2010
Outreach Speaker , “ <i>Can’t get you out of my head: Your brain on music</i> ”, Arts, Sciences & Medicine High School Summer Camp, Kalamazoo MI	2008

Ad hoc Reviewer

Applied Psycholinguistics
 Child Development
 Cognition & Instruction
 Computers & Education
 Cortex
 European Journal of Developmental Psychology
 Infancy
 Journal of Nonverbal Behavior
 Netherlands Organisation for Scientific Research
 Neuroimage

PROFESSIONAL MEMBERSHIPS

Society for the Teaching of Psychology
 International Society for Gesture Studies
 Cognitive Development Society
 Society for Research in Child Development

PROFESSIONAL DEVELOPMENT

Museum-Research Partnership Program – Living Laboratory	2015
Committee on Education Postdoctoral Fellow	2015
Teaching Institute, Society for Research in Child Development	2015
Service Learning Graduate Fellows Program, Indiana University	2012-2013
Summer Gesture School, International Society of Gesture Studies	2012
Indiana University Associate Instructor Orientation	2011

CONFERENCE PRESENTATIONS & POSTERS

Wakefield, E. M., Congdon, E. L., Novack, M., Franconeri, S., & Goldin-Meadow, S. (October, 2015). Using eye tracking to explore how gesture facilitates learning. Poster presented at the Cognitive Development Society 2015 meeting, Columbus, Ohio.

- Hall, C., **Wakefield, E. M.**, James, K. H., & Goldin-Meadow, S. G. (October, 2015). Learning verbs through action vs. gesture. Poster presented at the Cognitive Development Society 2015 meeting, Columbus, Ohio.
- Novack, M., **Wakefield, E. M.**, Villarreal, J., & Goldin-Meadow, S. (October, 2015). Seeing meaning in movement: The development of gesture understanding. Poster presented at the Cognitive Development Society 2015 meeting, Columbus, Ohio.
- Wakefield, E. M.**, James, K. H., & Goldin-Meadow, S. G. (March, 2015). Can you show me 'yocking'? Learning novel verbs through producing and observing actions and gestures. Talk presented in E. Wakefield & M. Novack (chairs) Comparing the Effects of Active and Passive Learning Experiences Through Action and Gesture at the Society for Research on Child Development, Philadelphia, PA.
- Wakefield, E. M.**, Congdon, E., Novack, M., Goldin-Meadow, S. G., & James, K. H. (March, 2015). Why does gesture facilitate learning? An investigation of the underlying neural mechanism. Poster presented at the Society for Research on Child Development, Philadelphia, PA.
- Wakefield, E. M.**, Novack, M., Congdon, E., Goldin-Meadow, S., & James, K. H. (July, 2014). Understanding the neural effects of learning with gesture: Does gesture help learners because it is grounded in action? Talk presented at the International Society of Gesture Studies meeting, San Diego, California.
- Wakefield, E. M.**, & James, K. H. (October, 2013). Behavioral and neural effects of learning with different gesture strategies. Poster presented at the Cognitive Development Society 2013 meeting, Memphis, Tennessee.
- James, K. H., & **Wakefield, E. M.** (May, 2013). Using fMRI with pre-school children to show brain changes associated with learning. Talk presented by Wakefield at the Cognitive Development Neuroscientific Approaches Symposium, Austin, Texas.
- Wakefield, E. M.**, & James, K. H. (July, 2012). Changes in iconic and metaphoric gesture processing across development. Talk presented at the International Society for Gesture Studies 2012 meeting, Lund, Sweden.
- Wakefield, E. M.**, & James, K. H. (April, 2012). Motor processing during gesture perception across development: An fMRI study. Poster presented at the Cognitive Neuroscience Society 2012 meeting, Chicago, Illinois.
- Wakefield, E. M.**, & James, K. H. (April, 2011). Neural correlates of gesture processing across development. Poster presented at the Cognitive Neuroscience Society 2011 meeting, San Francisco, California.
- Wakefield, E. M.**, & James, K. H. (April, 2010). Sensori-motor integration in children: Effects of different forms of training on melody processing. Poster presented at the Cognitive Neuroscience Society 2010 meeting, Montreal, Quebec.

- Wakefield, E. M.**, & James, K. H. (August, 2009). The effects of sensori-motor learning on melody processing. Talk presented at the Society for Music Perception and Cognition, Indianapolis, Indiana.
- Reimink, K., Ulrey, L. A., **Wakefield, E.**, & Batsell, W. R. (April, 2009). CS-US interval determines overshadowing or potentiation in a taste-taste compound. Talk presented at Southwestern Psychological Association, San Antonio, Texas.
- Wakefield, E.**, Reimink, K., Batsell, W. R., Jr., & Batson, J. (April, 2008). Effects of inflation on taste-potentiated taste aversion. Poster presented at Southwestern Comparative Psychology Association, Georgetown, Texas.
- Wakefield, E. M.** (April, 2008). Reversal of overshadowing to potentiation: A new finding in taste aversion learning. Talk presented at the Van Liere Senior Individualized Project Symposium, Kalamazoo, Michigan.
- Batsell, W. R., Jr., & **Wakefield, E. M.** (March, 2008). Inflation of the elements in a taste-taste compound. Poster presented at the International Conference on Comparative Cognition, Melbourne, Florida.
- Tan, S. L., Spackman, M. P., & **Wakefield, E. M.** (August, 2008). Effects of diegetic and non-diegetic music on viewers' interpretations of film. Talk presented at the International Conference of Music Perception and Cognition, Sapporo, Japan.
- Wakefield, E.**, & McFarland, A. (April, 2006). Musically untrained college students' intuitions about sound, silence, and duration in musical notation. Poster presented at Michigan Undergraduate Psychology Conference, Siena Heights, Michigan.