

JOSHUA K. HARTSHORNE

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EDUCATION

(In progress) Doctor of Philosophy. Psychology. Advisor: Jesse Snedeker
Harvard University / Cambridge, MA

Masters of Arts. Psychology
Harvard University / Cambridge, MA

Bachelors of Arts. Major: Mathematics; Minor: Russian (2002)
Oberlin College / Oberlin, OH

PRIOR RESEARCH TRAINING

Cognitive Science / Language

Georgetown University. Research Assistant. Full Time. *Summer 2000, Summer 2001, 2002-2003*
Supervisor: Michael Ullman, Departments of Neuroscience, Psychology, Linguistics, and Neurology

Georgetown University. Research Assistant. 10 hrs/week during academic year. *2000-2002*
Supervisor: Michael Ullman, departments of psychology, linguistics, and neurology

Georgetown University. Research Assistant. *January 2000*
Supervisor: Guinevere Eden.

Cognitive Science / Vision and Attention

Harvard University. Research Assistant. Full Time. *Fall 2006-Summer 2007*
Supervisor: Yuhong Jiang, Department of Psychology.

Central Michigan University. Research Assistant. Full Time. *Summer 1997*
Supervisor: John Monahan, Department of Psychology.

Other Research

Central Michigan University. Research Assistant. 5 hrs/week. *Summer 2006*
Supervisor: Nancy Salem-Hartshorne, Department of Psychology.

University of Kansas School of Medicine. Research Assistant. 8 hrs/week. *1997-1998*
Supervisor: S. K. Dey, Department of Molecular and Integrative Physiology.

REFEREED PUBLICATIONS

In Journals

Hartshorne, Joshua K. & Adena Schachner (*accepted pending revisions*). Tracking replicability as a method of post-publication open evaluation.

Hartshorne, Joshua K., Nancy Salem-Hartshorne, & Timothy S. Hartshorne (2009). Birth order and group self-organization. *Journal of Individual Psychology*, 65(2).

Hartshorne, Joshua K. (2008) Working memory capacity and proactive interference. *PLoS ONE* 3(7): e2716.

Hartshorne, Joshua K., and Michael T. Ullman. (2006) Why girls say ‘holded’ more than boys. *Developmental Science*, 9, 21-32.

In Conference Proceedings

Hartshorne, Joshua K., Rebecca Nappa & Jesse Snedeker (2011). Ambiguous pronoun processing development: Probably not U-Shaped. *Proceedings of the Boston University Conference on Language Development* 35.

Hartshorne, Joshua K., Timothy J. O’Donnell, Yasutada Sudo, Miki Uruwashi & Jesse Snedeker (2010). Linking meaning to language: Linguistic universals and variation. In *Proceedings of the Fifteenth Annual Conference of the Cognitive Science Society*.

Submitted, Under Revision, or In Preparation

Hartshorne, Joshua K. & Jesse Snedeker (*submitted*). The speed of inference: Evidence against rapid use of context in calculation of scalar implicatures.

Hartshorne, Joshua K. & Jesse Snedeker (*submitted*). What is implicit causality: World knowledge, an arbitrary feature, or an effect of semantic structure?

Hartshorne, Joshua K. (*submitted*). Causal inferences about the world and pronoun interpretation.

Hartshorne, Joshua K. (*submitted*). Implicit causality & universals in pronoun comprehension.

Hartshorne, Joshua K. & Amanda Pogue (*submitted*). *Love* is hard to understand: Psychological state verbs and the linking problem.

Joshua K. Hartshorne & Tal Yakovski (*under revision*). Visual working memory and the formation of incidental visual long-term memory.

Hartshorne, Joshua K., Timothy J. O’Donnell, Yasutada Sudo, Miki Uruwashi & Jesse Snedeker (*submitted*). Linking meaning to language: Linguistic universals and variation.

Hartshorne, Joshua K. & Jesse Snedeker (*in prep*). Are pronoun resolution biases learned?

Panizza, Daniele, Yi Ting Huang, Joshua Hartshorne, Jesse Snedeker & Gennaro Chierchia (*in prep*). *Some* times words have *two* meanings. A study on the on line interpretation and processing of number words and scalar quantifiers.

BOOK CHAPTERS

Salem-Hartshorne, Nancy, Blake, Kim, & Hartshorne, Joshua K. (2010) Changes during the life cycle: Teenage. In, Hartshorne, T. S., Hefner, M. A., Davenport, S. L. H. & Thelin, J. W., eds., *CHARGE Syndrome*. Plural Publishing, San Diego, CA., pp. 223-249.

PRESENTATIONS

Conference Talks

Hartshorne, Joshua K. & David Barner. (2011). How do children interpret number words before learning their exact meanings? BUCLD 36, Boston, MA
*Winner of the Jean Berko Gleason Award for top-ranked student presentation.

Hartshorne, Joshua K. (2011). Implicit causality and pronouns: Lexically-encoded meaning, not world knowledge. 24th Annual Meeting of the CUNY Conference on Human Sentence Processing, Palo Alto, CA.

Hartshorne, Joshua K. & Jesse Snedeker (2011). Cues to pronoun resolution. International Association for the Study of Child Language, Montreal, Canada.

Nappa, Rebecca, Joshua K. Hartshorne & Jesse Snedeker (2011). Him or him: Pronoun comprehension in ASD. International Association for the Study of Child Language, Montreal, Canada.

Hartshorne, Joshua K., Manizeh Khan & Jesse Snedeker (2010). Predictability in the visual world. Architectures and Mechanisms in Language Processing (AMLaP) conference, York, UK.

Hartshorne, Joshua K. and Jesse Snedeker. (2009). Integration of discourse and semantic structure in children's resolution of ambiguous pronouns. BUCLD 34, Boston, MA.

Hartshorne, Joshua K. and Jesse Snedeker. (2009). Grammatical context affects online scalar implicature computation. Architectures and mechanisms in Language Processing (AMLaP) conference, Barcelona, Spain.

Vickery, Timothy J., Joshua K. Hartshorne & Yuhong V. Jiang. (2007) Learning to form new perceptual groups. Paper presented at the 15th Annual Object Perception, Attention & Memory meeting.

Monahan, John S., and Joshua K. Hartshorne. (1998) Search task, not field size, affects pop-out search speed. Paper presented at the 90th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans.

Conference Posters

Hartshorne, Joshua K., Rebecca Nappa & Jesse Snedeker. (2011). Steady – not u-shaped – development in ambiguous pronoun processing. 24th Annual Meeting of the CUNY Conference on Human Sentence Processing, Palo Alto, CA.

Hartshorne, Joshua K. & Jesse Snedeker. (2011). Not all pronouns are resolved rapidly online. 24th Annual Meeting of the CUNY Conference on Human Sentence Processing, Palo Alto, CA.

Nappa, Rebecca, Joshua K. Hartshorne & Jesse Snedeker. (2011). Steady – not u-shaped – development in ambiguous pronoun processing. 24th Annual Meeting of the CUNY Conference on Human Sentence Processing, Palo Alto, CA.

Nappa, Rebecca, Joshua K. Hartshorne & Jesse Snedeker. (2011). She and her: Online and offline pronoun comprehension in children with ASD. BUCLD 36, Boston, MA

Hartshorne, Joshua K. & Jesse Snedeker. (2010). Pronoun resolution, cue frequency, and cue reliability. Architectures and Mechanisms in Language Processing (AMLaP) conference, York, UK.

Khan, Manizeh, Joshua Hartshorne & Jesse Snedeker. (2009). Can listeners modulate rapid pragmatic inferences based on knowledge about the speaker? Architectures and Mechanisms in Language Processing (AMLaP) conference, Barcelona, Spain.

- Hartshorne, Joshua, Manizeh Khan and Jesse Snedeker. (2009). Do listeners model speakers in on-line sentence comprehension? Architectures and Mechanisms in Language Processing (AMLaP) conference, Barcelona, Spain.
- Hartshorne, Joshua K., Pogue, Amanda, & Snedeker, Jesse. (2009). Fear and loathing in discourse coherence: children use argument structure in pronoun interpretation. Poster presented at Experimental Pragmatics, Lyon, France.
- Pogue, Amanda, Hartshorne, Joshua K., & Snedeker, Jesse. (2009). Evidence for a distinction between canonical and non-canonical syntax-semantics mappings. Poster presented at the Annual Meeting of the Cognitive Science Society, Amsterdam.
- Hartshorne, Joshua K. & Snedeker, Jesse. (2009). Grammatical context affects online scalar implicature computation. Poster presented at the 22nd Annual Meeting of the CUNY Conference on Human Sentence Processing, Davis, CA.
- Hartshorne, Joshua K. & Snedeker, J. (2009). Rapid online effects of verb argument structure on pronoun resolution. Poster presented at the 22nd Annual Meeting of the CUNY Conference on Human Sentence Processing, Davis, CA.
- Hartshorne, Joshua K., Pogue, Amanda, & Snedeker, Jesse. (2009). Who is she and why is she so scary? Psych verbs and the mapping from semantics to syntax. Poster presented at the Society for Research Development Biennial Meeting, Denver, CO.
- Salem-Hartshorne, Nancy, & Hartshorne, Joshua K. (2007) Development in CHARGE Syndrome: Results of a longitudinal study. Poster presented at the 8th International CHARGE Syndrome Foundation Conference for Families, Anaheim, CA.
- Hartshorne, Joshua, Timothy Vickery and Yuhong Jiang. (2007) Knowledge about target category: a dissociation between categorization and search. Poster presented at the Vision Sciences Society Annual Meeting, Sarasota, FL.
- Hartshorne, Joshua K., Claudia J. Bonin and Michael T. Ullman. (2007) The procedural deficit hypothesis of dyslexia. Poster presented at the 14th annual meeting of the Cognitive Neuroscience Society, New York.
- Hartshorne, Joshua K., Nancy Salem-Hartshorne and Timothy S. Hartshorne. (2007) Birth order effects in group self-organization. Poster presented at the 55th annual meeting of the North American Society of Adlerian Psychology, Vancouver.
- Bonin, Claudia J., Joshua K. Hartshorne and Michael T. Ullman. (2006) The procedural deficit hypothesis of dyslexia. Poster presented at the 25th Rodin Remediation Academy Conference, Washington, D.C.
- Hartshorne, Joshua K., Mathew Walenski, and Michael T. Ullman. (2003) An investigation of the role of the declarative and procedural memory systems in language using a dual-task paradigm. Poster presented at the 10th annual meeting of the Cognitive Neuroscience Society, New York.
- Ullman, Michael, Ivy V. Estabrooke, Karsten Steinhauer, Matthew Walenski, Claudia Brovotto, Roumyana Pancheva, Kaori Ozawa, Joshua K. Hartshorne, Kristen Mordecai, and Pauline Maki. (2003) Sex differences and the role of estrogen in the neurocognition of language. Poster presented at the 10th annual meeting of the Cognitive Neuroscience Society, New York.

Invited Talks

What role does social cognition play in language comprehension?
Stanford Psychology of Language Tea (SPLaT) / Stanford University

3/10/2011

Can listeners modulate rapid pragmatic inferences based on knowledge about the speaker? The Role of Social Cognition in Language Processing Summer Workshop / Harvard University	7/13/2010
Reading between the lines. The Role of Social Cognition in Language Processing Summer Workshop / Harvard University	7/13/2010
Cooperative – and opinionated – speakers. Scalar Implicature Summer Workshop / Harvard University	6/17/2010
Quantifiers and numbers in upward- and downward-entailing contexts. Scalar Implicature Summer Workshop / Harvard University	6/17/2010
The structure of the mental lexicon Guest Lecture for Linguistics for Language Students / Oberlin College	2004
The structure of the mental lexicon Guest Lecture for Cognitive Psychology / Central Michigan University	2004
Modes of Tourism, Great Baikal Trail Symposium / Ulan-Ude, Russia	2004
The Declarative/Procedural model / Saint Petersburg State University	2003
The Collapse(?) of the Rapa Nui Civilization Guest Lecture for Introduction to Archaeology / Oberlin College	2002

RESEARCH AND TRAVEL GRANTS

External

National Science Foundation Graduate Fellowship	2008-2013
National Defense Science and Engineering Graduate Fellowship	2008-2011
North American Society of Adlerian Psychology Conference Scholarship	2007
Honorable Mention, National Science Foundation Graduate Fellowship	2007
NSF REU (Research Experience for Undergraduates) Supplement “An interference study investigating the declarative/procedural model of language.” PI: Michael Ullman. Total costs: \$4282. Hartshorne Percent Effort: 100%.	2000-2001

Internal

Elsie Hopestill Stimson Memory Travel grant to attend the 2011 CUNY Human Sentence Processing conference. Total costs: \$500	2011
Elsie Hopestill Stimson Memory Travel grant to attend the 2010 Cognitive Science Society meeting. Total costs: \$500	2010
Gordon W. Allport Memorial Fund “What makes puns funny? Homographic processing in typical and atypical populations.” PI: Joshua Hartshorne.	2009

Total costs: \$3500.

Mind, Brain and Behavior Initiative Graduate Student Award Travel Grant for AMLaP 2009 PI: Joshua Hartshorne. Total costs: \$1,368.	2009
Elsie Hopestill Stimson Memorial Travel grant to attend the 2009 Experimental Pragmatics conference Total costs: \$500	2009
John B. Knox Bequest “Constraints of the mapping from semantics to syntax: A cross-linguistic investigation.” PI: Joshua Hartshorne. Total costs: \$3500.	2009
Gordon W. Allport Memorial Fund Travel grant to attend CUNY 2009 Conference on Human Sentence Processing Total costs: \$500	2009
Gordon W. Allport Memorial Fund “Pragmatic processing in adult humans: behavioral and neurophysiological measures.” PI: Joshua Hartshorne. Total costs: \$3500.	2008
Elsie Hopestill Stimson Memorial	2007

ADDITIONAL AWARDS AND SCHOLARSHIPS

Jean Berko Gleason Award BUCLD 2011, Best Student Presentation	2011
Dahl Essay Prize in Philosophy	2002
John Frederick Oberlin Scholarship	1998-2002
National Merit Scholar	1998
Kansas Honor Scholar	1998

TEACHING AND SERVICE

Courses Taught

Introduction to Psycholinguistics, Irkutsk State University of Linguistics / Irkutsk, Russia	2004
Introduction to Neurolinguistics, Irkutsk State University of Linguistics / Irkutsk, Russia	2004
Advanced English Conversation, Russian International Academy of Tourism / Irkutsk, Russia	2003 - 2004
English Conversation / St. Petersburg State University	Spring 2001
Robert Jordan's <i>The Wheel of Time</i> / Experimental College, Oberlin College	Fall 2001
Swing Dancing (beginning and advanced sessions) / Experimental College, Oberlin College	Fall 2000

Swing Dancing / Experimental College, Oberlin College *Spring 2000*

Research Courses

Psychology 910r (Supervised Research), Harvard University
Kristin Ohanian, Psych-verb acquisition *Spring 2009*
Yelyzaveta Ryabkina, Pronoun comprehension and implicit causality *Fall 2008*

Language Development: Undergraduate Laboratory Course, Harvard University
Claire Huang (co-advised with Manizeh Khan) *Fall 2010*
The role of speaker-modeling in implicature calculation

Field Experience Program, Harvard School of Education (field experience supervisor)
Joanna Blatt, Psych verbs and the semantics-syntax interface *Spring 2009*

Teaching Assistant

Science of Living Systems 20: Psychological Science / Harvard University (Steven Pinker) *Spring 2011*
Weekly supplemental section lecture, grading.

Psychology / King Chavez Parks Extended College Day, Central Michigan University *July 10–16, 2006*
Four-day, 8:00 – 2:00 psychology course for high-achieving inner city students from Detroit and Flint.

Workshops Organized

The Role of Social Cognition in Language Processing Summer Workshop *July 13, 2010*
Presenters: Joshua Hartshorne, Rebecca Nappa, Jill De Villiers, Peter De Villiers, Lisa Edelson, Evalina Fedorenko, Manizeh Khan, Adrianna Jenkins, James Lee, Kyle Thomas & Kate Harrigan.
Funding: Roback Fund, Harvard University Department of Psychology.

Scalar Implicature Summer Workshop *June 17, 2010*
Presenters: Joshua Hartshorne, Danny Fox, Noah Goodman, Gina Kuperberg, Manizeh Khan, Hazel Pearson, Gennaro Chierchia, Jacopo Romoli, Jesse Snedeker.
Funding: Roback Fund, Harvard University Department of Psychology.

Seminars Organized

Psych Verbs Research Group *2008 –*
Regular meeting (weekly or biweekly) for research assistants and collaborators working on the structure of psych verbs.

Language & Cognition *2007 – 2011*
Weekly research workshop and discussion for members of the Harvard Psychology and Linguistics Departments. With Jacopo Romoli (2007-2009), Timothy O'Donnell (2008-2009) and Manizeh Khan (2009-).
Funding: Harvard University Graduate School of Arts and Sciences Research Workshops.

Social Cognition and Language Research Group *Spring 2009*
Weekly research workshop and discussion for research assistants working on social cognition and language.

Autism Research Group *Fall 2009*
Regular meeting (weekly) for research assistants and members of SnedLab working language processing in autistic populations. With Rebecca Nappa.

Research Assistants

Stephanie Liem *Fall 2008 - Spring 2011*

Grammatical Theory of Implicature, ERP
Gender mismatched pronouns, ERP

- Meera Kanabar *Spring 2009, Summer/Fall 2010*
Cross-linguistic regularities in argument realization (French, Gujarati)
Pronoun resolution and implicit causality
Corpus study of implicit causality in child-directed speech
- David Batuner *Fall 2010 – Spring 2011*
Implicit causality in Russian, eyetracking
Implicit causality in English, eyetracking (48 verbs experiment)
The role of speaker-modeling in implicature (unreliable speaker – short version)
- Lauren Grenzig *Fall 2010 – Spring 2011*
Gender mismatched pronouns, ERP
First mention effect in young children, eyetracking
Corpus study of pronoun use in children with autism
- Yunqian Wang *Spring 2011*
Mandarin implicit causality, eyetracking
Corpus study of child-directed Mandarin psych verbs
- Claire Huang (with Manizeh Khan) *Fall 2010*
Top-down effects in pragmatics
- Callie Sae Her *Fall 2010*
Implicit causality in Mandarin, eyetracking
First mention effect in young children, eyetracking
- Sarah Goodloe *Spring 2010*
Speaker modeling in language comprehension (unreliable speaker project).
- Allison Song *2009-2010*
Pronoun processing in young children and psych verbs in Mandarin.
- Rebecca Levitan *2009-2010*
The role of domain-general social cognition in pragmatics: an individual differences study.
- Chen Chen *2009-2010*
ERP testing and psych verbs in Mandarin.
- Rebecca Podell *Summer 2009*
Implicit consequentiality in young children, eyetracking.
- Miki Uruwashi *Spring 2009 – Spring 2010*
Cross-linguistic regularities in argument realization (Japanese)
- Maria Blokh *Spring 2009*
Cross-linguistic regularities in argument realization (Russian)
- Mark Nasef Ragheb (with Manizeh Khan) *Spring 2009*
Top-down effects in pragmatics
- Steve Faulkner *Fall 2008*
Grammatical Theory of Implicature
Top-down effects in pragmatics

Yelyzaveta Ryabkina *Fall 2008*
Implicit causality in Russian.
Implicit causality in children.

Athena Xie *Summer 2008*
Grammatical Theory of Implicature

Amanda Pogue *Summer 2008*
Psych verbs and the semantics-syntax interface
Pronoun resolution and implicit causality

Meghan Sheridan *Winter/Spring 2008*
Individual differences in social cognition
Reading time and scalar implicatures

SERVICE

Study Pool Committee *9/2008 – 9/2009*
Reviewed applications for new experiments.

LANGUAGES

Modern Languages

Russian – *fluent written and spoken*
Spanish – *advanced written and spoken*
Mandarin Chinese – *intermediate written and spoken*
Japanese – *basic written and spoken*

Classical Languages Studied

Latin
Hebrew

Language Study Programs

Escuela de Idiomas, Nerja / Nerja, Spain / Full Time *Spring 2006*
Mandarin Training Center / Taipei, Taiwan / Full Time *2004-2005*
Irkutsk State University / Irkutsk, Russia / Part Time *Spring 2004*
Center of Russian Language and Culture / St. Petersburg, Russia / Full Time *Summer 2002*
Center of Russian Language and Culture / St. Petersburg, Russia / Full Time *Spring 2001*
Instituto Mexico Americano de Cultura / Guadalajara, Mexico / Full Time *January 1999*
United States Department of Agriculture Graduate School / Part Time *2003*
Elementary Japanese II & Elementary Japanese III