

# Joshua K. HARTSHORNE

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## APPOINTMENTS

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| Jane 2016 – <i>Current</i> | Assistant Professor of Psychology<br><i>Boston College</i>   |
| JUNE 2015–DEC 2015         | Post-Doctoral Associate<br><i>Massachusetts Institute of Technology</i><br>Advisor: Josh Tenenbaum   |
| JUNE 2012–MAY 2015         | Post-Doctoral Fellow<br>RUTH L. KIRSCHSTEIN NRSA INDIVIDUAL FELLOWSHIP<br><i>Massachusetts Institute of Tecnology</i><br>Advisor: Josh Tenenbaum |

## EDUCATION

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|------|---|
| 2012 | Ph.D. in PSYCHOLOGY, <b>Harvard University</b> / Cambridge, MA<br>Advisor: Jesse Snedeker |
| 2009 | A.M. in PSYCHOLOGY, <b>Harvard University</b> / Cambridge, MA<br>Advisor: Jesse Snedeker  |
| 2002 | B.A. in MATHEMATICS, <b>Oberlin College</b> / Oberlin, OH<br>Advisor: James Walsh         |

## GRANTS, AWARDS, & SCHOLARSHIPS

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### External Grants

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| 2016-2017 | “APA SUMMER UNDERGRADUATE PSYCHOLOGY RESEARCH EXPERIENCE”<br>PI: Sara Cordes. Co-PIs: Joshua Hartshorne & Katherine McAuliffe. Total Costs: \$20,723  |
| 2016-2019 | “CompCog: Large-scale, empirically based, publicly accessible database of argument structure to support experimental and computational research”<br>NATIONAL SCIENCE FOUNDATION<br>PI: Joshua Hartshorne. Total Costs: \$383,079        |
| 2016-2017 | “Intensive summer program in psychology for exceptional high school students: A pilot program”<br>ESTHER ROSEN KATZ FUND, AMERICAN PSYCHOLOGICAL FOUNDATION<br>PI: Joshua Hartshorne. Co-PI: Katherine McAuliffe. Total Costs: \$18,000 |
| 2016      | “Workshop on Events in Language and Cognition”<br>NATIONAL SCIENCE FOUNDATION<br>PI: Joshua Hartshorne. Total Costs: \$6,491  |

- 2012-2015 Ruth L. Kirschstein National Research Service Award (Individual)
- 2008-2012 National Science Foundation Graduate Fellowship
- 2008-2011 National Defense Science and Engineering Graduate Fellowship
- 2007 North American Society of Adlerian Psychology Conference Scholarship
- 2000 - 2001 Research Experience for Undergraduates Supplement  
NATIONAL SCIENCE FOUNDATION  
PI: Michael Ullman. Total costs: \$4,282. Hartshorne Percent Effort: 100%

### Internal Grants

- 2018–2020 Aging Research Incentive Grant (Boston College)  
Total Costs: \$68,976
- 2017 Academic Technology Innovation Grant (Boston College)  
Total Costs: \$35,000
- 2017 Teaching, Advising, & Mentoring Expense Grant (Boston College)  
Total Costs: \$2,000
- 2012 Elsie Hopestill Stimson Fund (Harvard University)  
Total Costs: \$500
- 2012 Harvard Graduate Student Council Travel Grant (Harvard University)  
Total Costs: \$127.10
- 2011 Elsie Hopestill Stimson Fund (Harvard University)  
Total Costs: \$500
- 2010 Elsie Hopestill Stimson Fund (Harvard University)  
Total Costs: \$500
- 2009 Gordon W. Allport Memorial Fund (Harvard University)  
“What makes puns funny? Homographic processing in typical and atypical populations.” Total Costs: \$3,500
- 2009 Mind, Brain, & Behavior Initiative Graduate Student Award (Harvard University)  
Total Costs: \$1,368
- 2009 John B. Knox Bequest (Harvard University)  
“Constraints of the mapping from semantic to syntax: A cross-linguistic investigation.” Total Costs: \$3,500
- 2009 Gordon W. Allport Memorial Fund (Harvard University)  
Total Costs: \$500
- 2008 Gordon W. Allport Memorial Fund (Harvard University)  
“Pragmatic processing in adult humans: Behavioral and neurophysiological measures.” Total Costs: \$3,500
- 2007 Elsie Hopestill Stimson Fund (Harvard University)  
Total Costs: \$500

## Awards

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

## PUBLICATIONS

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### Journal articles

- Hartshorne, Joshua K., Laura T. Germine, & Katharina Reinecke (submitted). A thousand studies for the price of one: Accelerating psychological science with online studies.
- Niemi, Laura, Joshua Hartshorne, Tobias Gerstenberg, & Liane Young (submitted). Moral values pervade implicit and explicit causal attribution: Evidence from basic language processing.
- Hartshorne, Joshua K. & Steven Pinker (submitted). The search for s: Individual-difference and developmental evidence for a common component in linguistic & nonlinguistic social cognition.
- Hartshorne, Joshua K. & Tal Makovski (submitted). The effect of working memory on long-term memory acquisition and its relationship to vocabulary acquisition.
- Hartshorne, Joshua K. Joshua B. Tenenbaum, & Steven Pinker. (2018). A critical period for second language acquisition: Evidence from 2/3 million English speakers. *Cognition*
- Hartshorne, Joshua K. & Eva Wittenberg. (in press). Review of Radvansky & Zacks (2014). *Event Cognition. Language and Cognition*.
- Hartshorne, Joshua K., Timothy J. O'Donnell, Yasutada Sudo, Miki Uruwashii, Miseon Lee, & Jesse Snedeker (2016). Psych verbs, the linking problem, and the acquisition of language. *Cognition*, 157, 268-288.
- Hartshorne, Joshua K. (2016). Comment: Acquiring metaphors. *Emotion Review*, 8(3), 280-282.
- Anderson, C. J., Bahník, S., Barnett-Cowan, M., Bosco, F. A., Chandler, J., Chartier, C. R., Cheung, F., Christopherson, C. D., Cordes, A., Cremata, E. J., Penna, N. D., Estel, V., Fedor, A., Fitneva, S. A., Frank, M. C., Grange, J. A., Hartshorne, J. K., Hasselman, F., Henninger, F., van der Hulst, M., Jonas, K. J., Lai, C. K., Levitan, C. A., Miller, J. K., Moore, K. S., Meixner, J. M., Munafo, M. R., Neijenhuijs, K. I., Nilsson, G., Nosek, B. A., Plessow, F., Prenoveau, J. M., Ricker, A. A., Schmidt, K., Spies, J. R., Stieger, S., Strohminger, N., Sullivan, G. B., van Aert, R. C. M., van Assen, M. A. L. M., Vanpaemel, W., Vianello, M., Voracek, M., Zuni, K. (2016). Response to comment on "Estimating the reproducibility of psychological science." *Science*, 351(6277), p. 1037.
- Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science*, 349(6251), 943.
- Hartshorne, Joshua K., & Laura T. Germine. (2015). When does cognitive functioning peak? The asynchronous rise and fall of different cognitive abilities across the lifespan. *Psychological Science*, 26(4), 433-443.
- Hartshorne, Joshua K., Amanda Pogue, and Jesse Snedeker (2015). Love is hard to understand: The relationship between transitivity and caused events in the acquisition of emotion verbs. *Journal of Child Language*, 42, 467-504.
- Hartshorne, Joshua K., Rebecca Nappa, & Jesse Snedeker. (2015). Development of the first-mention bias. *Journal of Child Language*, 42(2), 423-446.

- Hartshorne, Joshua K., Timothy J. O'Donnell, & Joshua B. Tenenbaum. (2015). The causes and consequences explicit in verbs. *Language, Cognition, & Neuroscience*, 30(6), 716-734.
- Hartshorne, Joshua K., Jesse Snedeker, Stephanie Yun-Mun Liem Azar, and Albert Kim. (2015). The neural computation of scalar implicature. *Language, Cognition, & Neuroscience*, 30(5), 620-634.
- Hartshorne, Joshua K. (2014). What is Implicit Causality? *Language, Cognition, and Neuroscience*, 29(7), 804-824.
- Hartshorne, Joshua K., Yasutada Sudo & Miki Uruwashi (2013). Are implicit causality pronoun resolution biases consistent across languages and cultures? *Experimental Psychology*, 60(3), 179-196.
- Hartshorne, Joshua K. & Jesse Snedeker (2013). Verb argument structure predicts implicit causality: The advantages of finer-grained semantics. *Language and Cognitive Processes*, 28(10), 1474-1508.
- Open Science Collaboration (2012). An open, large-scale, collaborative effort to estimate the reproducibility of psychological science. *Perspectives in Psychological Science*, 7, 657-660.
- Hartshorne, Joshua K. & Adena Schachner (2012). Tracking replicability as a method of post-publication open evaluation. *Frontiers in Computational Neuroscience*, 6:8. Doi:10.3389/fncom.2012.00008
- Hartshorne, Joshua K. & Adena Schachner. (2012). Where's the data? *The Psychologist*, 25(5), 355.
- 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.

### **Book chapters**

- Open Science Collaboration (2014). The Reproducibility Project: A model of large-scale collaboration for empirical research on reproducibility. In V. Stodden, F. Leisch, & R. Peng (Eds.), *Implementing Reproducible Computational Research (A Volume in the R Series)*. New York, NY: Taylor & Francis.
- 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.

### **Proceedings**

- Mu, Jesse, Joshua K. Hartshorne, & Timothy O'Donnell. (2017). Evaluating hierarchies of verb argument structure with hierarchical clustering. *Empirical Methods in Natural Language Processing*, Copenhagen, Denmark.
- Niemi, Laura, Joshua Hartshorne, Tobias Gerstenberg, & Liane Young. (2016). Implicit measurement of motivated causal attribution. *Proceedings of the Thirty-Sixth Annual Conference of the Cognitive Science Society*.
- Hartshorne, Joshua K., Claire Bonial, & Martha Palmer. (2014). The VerbCorner Project: Findings from Phase 1 of crowd-sourcing a semantic decomposition of verbs. *Proceedings of the Association of Computational Linguistics (ACL)*.
- Hartshorne, Joshua K., Claire Bonial, & Martha Palmer. (2013). The VerbCorner Project: Toward an empirically-based semantic decomposition of verbs. *Proceedings of Empirical Methods in Natural Language Processing (EMNLP)*.
- Hartshorne, Joshua K., Jesse Snedeker, & Albert Kim. (2013). The neural computation of scalar implicature. In *Proceedings of the Thirty-Fifth Annual Conference of the Cognitive Science Society*.
- 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 Thirty-Second Annual Conference of the Cognitive Science Society.

### **General public (selected)**

The video game engine in your head. (April 1, 2014). Scientific American.

Calling all amateur scientists. (Jan-Feb. 2014). Scientific American Mind.

Citizen scientists decode meaning, memory and laughter. (Sep. 23, 2013). Scientific American.

How to understand the deep structures of language. (Sep. 17. 2013). Scientific American.

Where are all the talking robots? (March 2011). Scientific American Mind.

Fantasy TV in the service of science: An open letter to HBO about 'Dothraki'. Scientific American.

How birth order affects your personality. (Jan. 2010). Scientific American Mind.

Does language shape what we think. Scientific American.

Why don't babies talk like adults? (Feb. 2009). Scientific American.

Every child is a genius. (Jan. 2007). Odyssey Magazine. (w. Sheila Berenson)

Magical mistakes. (Jan. 2007). Odyssey Magazine. (w. Sheila Berenson)

### **PRESENTATIONS**

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**Juried** (for talks with proceedings, see above)

Niemi, L., Hartshorne, J. K., Gerstenberg, T., & Young, L. (2016). The moral dimension of implicit verb causality. CUNY Conference on Human Sentence Processing, Gainesville, FL.

Niemi, L., Hartshorne, J., Gerstenberg, T., & Young, L. (2015). Implicit causality and moral inference. Workshop on expressive language: Semantics, pragmatics, and origins, Mansfield, CT.

Hartshorne, Joshua K. (2015). Achieving human-level performance on (some) Winograd Schema via a model of common sense. Language & Common Sense Workshop, Annual Meeting of the Cognitive Science Society.

Hartshorne, Joshua K. (2015). How our minds change over our lifetimes: New insights from Internet studies. Frontiers of Brain Science: The Kavli science journalism workshop.

Hartshorne, Joshua K., Tobias Gerstenberg, Timothy J. O'Donnell, & Joshua B. Tenenbaum. (2014). Language understanding & common sense reasoning. Architectures and Mechanisms in Language Processing (AMLaP), Edinburgh, UK.

Hartshorne, Joshua K. (2014). Implicit causality and novel verbs. International Association for the Study of Child Language, Amsterdam, Netherlands.

Hartshorne, Joshua K. & Jesse Snedeker. (2014). Learning non-causal transitive verbs. International Association for the Study of Child Language, Amsterdam, Netherlands.

Hartshorne, Joshua K. (2014). Project in action: Achievements, advice, & asks (panel). Games & Crowds, Washington, DC.

Hartshorne, Joshua K. (2014). Crowdsourcing actionable data with games (panel). Games & Crowds, Washington, DC.

Hartshorne, Joshua K. (2014). Taking research out into the wild (panel). SXSWedu, Austin, TX.

Hartshorne, Joshua K. & Jesse Snedeker. (2013). Emotion verbs and the problem of overgeneralization. BUCLD 38, Boston, MA \*Lunchtime plenary symposium, with Ben Ambridge, Adele Goldberg, and Steven Pinker

Hartshorne, Joshua K. (2013). Three myths about re-mention biases. Discourse Expectations: Theoretical, Experimental & Computational Perspectives, Tübingen, Germany.

Hartshorne, Joshua K. (2013). Three puzzles about quantifiers & their acquisition. Society for Research in Child Development, Seattle, WA

Germine, L., Hartshorne, J., Wilmer, J., Chabris, C., Chatterjee, G., & Nakayama, K. (2013). Heterogeneity in cognitive maturation and aging: Why there is no such thing as an adult control. Vision Sciences Society, Naples, Florida.

Hartshorne, Joshua K., Timothy O'Donnell, Yasutada Sudo, Miki Uruwashii & Jesse Snedeker. (2012). Linking event structure to language: Linguistic universals and variation. Maryland's First Annual Interdisciplinary Research Symposium on //Events//.

Wilmer, Jeremy B., Laura Germine, Ryan Ly, Joshua K. Hartshorne, Holum Kwok, Mark A. Williams & Justin Halberda. (2012). The heritability and specificity of change detection ability. Vision Sciences Society, Naples, Florida.

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. (April 9, 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**

Jennings, Mariela, Martha Palmer, & Joshua K. Hartshorne. (2018). How much does verb semantics determine verb syntax? Architectures and Mechanisms in Language Processings, Berlin, Germany.

Jennings, Mariela & Joshua K. Hartshorne. (2018). Pushkin: An open-source engine for social science at scale. Architectures and Mechanisms in Language Processings, Berlin, Germany.

Mu, J., Hartshorne, J. K., & O'Donnell, T. J. (2018). Learning and evaluating hierarchies of verb argument structure. Abstract presented at the Learning Language in Humans and Machines 2018 Conference, Paris, France, July 5-6.

Özge, Duygu, Joshua K. Hartshorne, & Jesse Snedeker. (2017). Salience of experiencer versus stimulus in Turkish psych verbs: A pronoun resolution study. 30th Annual Meeting of the CUNY Conference on Human Sentence Processing, Cambridge, MA.

Hartshorne, Joshua K., Joshua Tenenbaum, & Steven Pinker. (2016). A critical period for acquisition of second language syntax: Evidence from 669,498 English speakers. Boston University Conference on Language Development, Boston, MA.

Hartshorne, Joshua K., Jesse Mu, Timothy J. O'Donnell, & Martha Palmer. (2016). The relationship between semantics and verb argument structure is highly regular: A large-scale, crowd-sourced investigation. Poster presented at Architectures and Mechanisms in Language Processing, Bilbao, Spain.

Mu, Jesse, Timothy J. O'Donnell, & Joshua K. Hartshorne. (2016). Unsupervised learning of VerbNet argument structure. Annual Meeting of the Cognitive Science Society.

Hartshorne, Joshua K., & Palmer, Martha. (2016). VerbCorner: Testing theories of argument structure through crowdsourcing. Workshop on Events in Language, Gainesville, FL.

Hartshorne, Joshua K., Gerstenberg, T., O'Donnell, T. J., & Tenenbaum, J. B. (2014). Language understanding & common sense reasoning. Psychonomic Society, Long Beach, CA.

Shetreet E., Hartshorne J., & Kuperberg G. (2014). Fearing and loving: verb category matters in processing implicit causality. 6th Society for Neurobiology of Language Conference, Amsterdam, The Netherlands.

Hartshorne, Joshua K. & Steven Pinker. (2013). Evidence for common mechanisms in pragmatics and social cognition. Architectures and Mechanisms in Language Processing, Marseille, France.

Hartshorne, Joshua K. (2013). Not all pronouns are resolved rapidly. Discourse Expectations: Theoretical, Experimental & Computational Perspectives, Tübingen, Germany.

Hartshorne, Joshua K., Jesse Snedeker & Albert Kim. (2012). The neural computation of scalar implicature. Architectures and Mechanisms in Language Processing (AMLaP), Riva del Garda, Italy.

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 & 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 & 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 & 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 & 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, & 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, & Pauline Maki. (March 30 – April 1, 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

Replicability: Why it fails & what to do about it. MIT Critical Data course. MIT, September 22, 2017.

Inferring meanings: Pronouns and a case study in discourse and communication. **Keynote**, Discourse Expectations: Theoretical, Experimental, and Computational Perspectives (DETEC), June 26, 2017.

Crowdsourcing verb argument structure. The VerbCorner Workshop 2016. Boston College, October 19, 2016.

Replicability: Why it fails & what to do about it. MIT Critical Data course. MIT, October 14, 2016.

Why do children learn languages better than adults? Insights from 675,000 speakers of English. University of Massachusetts-Amherst Developmental Colloquium, October 6, 2016.

Sophisticated linguistic judgments from untrained volunteers. Oxford Languages Symposium, 2015.

Changes over the lifespan: An introduction to Harold and Maude, Science on the Screen, Coolidge Corner Theater, September 21, 2015.

Language understanding and common sense reasoning, Georgetown University, May 1, 2014.

Verb argument structure: An interface between syntax and concepts, Harvard University, Concepts Seminar, December 13, 2013.

Jabberwocky sentences & computational models of verb argument structure, National Chiao Tung University, Taiwan, November 14, 2013.

The VerbCorner Project, National Chiao Tung University, Taiwan, November 13, 2013.

Understanding people, National Taiwan University, Taiwan, November 11, 2013.

A comprehensive account of third-person pronouns, Brown University, Linguistics Lunch, October 2, 2013.

A Structured, Generative Account of Reference Resolution, Harvard University, Language & Cognition Seminar, September 27, 2013.

Love (deconstructed), Oberlin College, Department of Psychology, November 8, 2012.

Building good theories of human behavior requires getting the math right, Oberlin College, Math Lunch, November 8, 2012.

Love (deconstructed), Harvard University, Laboratory for Developmental Studies Seminar Series, September 24, 2012.

What role does social cognition play in language comprehension?, Stanford Psychology of Language Tea (SPLaT) / Stanford University, March 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, July 13, 2010.

Reading between the lines. The Role of Social Cognition in Language Processing Summer Workshop, Harvard University, July 13, 2010.

Cooperative – and opinionated – speakers. Scalar Implicature Summer Workshop, Harvard University, June 17, 2010.

Quantifiers and numbers in upward- and downward-entailing contexts. Scalar Implicature Summer Workshop, Harvard University, June 17, 2010.

The structure of the mental lexicon, guest lecture for “Linguistics for Language Students”, Oberlin College, 2003.

The structure of the mental lexicon, guest lecture for “Cognitive Psychology”, Central Michigan University, 2003.

Modes of Tourism, Great Baikal Trail Symposium, Ulan-Ude, Russia, 2004.

The Declarative/Procedural model, Saint Petersburg State University, Russia, 2003.

The Collapse(?) of the Rapa Nui Civilization, guest lecture for “Introduction to Archeology”, Oberlin College, 2002.

## **MEDIA COVERAGE (SELECTED)**

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### **Print**

To master a language, start learning it early. *The Economist*, May 10, 2018.

Why it's so hard to learn another language after childhood. *Time*, May 2, 2018.

At what age does our ability to learn a new language like a native speaker disappear? *Scientific American*, May 4, 2018.

How easily distracted are you? Here, distract yourself with this game to find out. *New York Magazine*, February 2, 2016.

Older and wiser? Some brain functions improve as we age. *Boston Globe*, March 6, 2015.

Older really can mean wiser. *New York Times*, March 16, 2015.

How intelligence shifts with age. *Wall Street Journal*, June 29, 2015.

The smartest age. *The Atlantic*. March 17, 2015.

Serious games. *Economist*, June 19, 2014.

Knowing your place. Sydney Morning Herald, February 3, 2014.

How many memories fit in your brain? New York Times, June 22, 2007.

### TV/Radio

Research shows first born children garner most success. Fox 25 News, November 19, 2013.

## TEACHING

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### Courses Taught

- 2018 "Language Acquisition and Development," Boston College / Boston, MA
- 2018 "Computational Models of Cognition," Boston College / Boston, MA
- 2017 "Language Acquisition and Development," Boston College / Boston, MA
- 2004 "Intro to Psycholinguistics," Irkutsk State University of Linguistics / Irkutsk, Russia
- 2004 "Intro to Neurolinguistics," Irkutsk State University of Linguistics / Irkutsk, Russia
- 2001 "Advanced English Conversation" Russian International Academy of Tourism / Irkutsk, Russia
- 2001 "Robert Jordan's *Wheel of Time*," Oberlin College / Oberlin, OH
- 2000 "Swing Dancing (advanced)," Oberlin College / Oberlin, OH
- 2000 "Swing Dancing (beginning)," Oberlin College / Oberlin, OH

### Teaching Assistant

- 2011-2017 "Science of Living Systems 20: Psychological Science," Harvard University, Cambridge, MA  
Taught weekly discussion section. Head teaching fellow in 2013. Course head: Steven Pinker.
- 2006 "King Chavez Parks Extended College Day Program", Central Michigan University / Mount Pleasant, MI  
Four-day psychology course for high-achieving inner city students

### Seminars (Non-Credit)

- 2016 Argument Structure. Massachusetts Institute of Technology / Cambridge, MA  
Weekly meeting for students, post-docs, and faculty
- 2015 Events Reading Group. Massachusetts Institute of Technology / Cambridge, MA  
Weekly meeting for students, post-docs, and faculty
- 2013-2014 Computational Psycholinguistics. Massachusetts Institute of Technology / Cambridge, MA  
Research assistant meeting & discussion group
- 2013 An Introduction to Language: Syntax, Semantics, & Pragmatics.  
Massachusetts Institute of Technology / Cambridge, MA  
Weekly summer seminar on psycholinguistics
- 2011-2012 Verbs & Events. Massachusetts Institute of Technology / Cambridge, MA

Weekly working & discussion group for graduate students and post-doctoral fellows

2012 Language Acquisition Seminar. Massachusetts Institute of Technology / Cambridge, MA  
Weekly summer seminar on language acquisition

2007-2011 Language & Cognition. Harvard University / Cambridge, MA  
Weekly talk series. Students & faculty from psychology and linguistics from Boston area.  
Co-organizers: Jacopo Romoli (2007-2009), Timothy O'Donnell (2008-2009), and Manizeh Khan (2009-2011).  
Funding: Harvard University Graduate School of Arts and Sciences Research Workshops.

2009 Social Cognition & Language. Harvard University / Cambridge, MA  
Research assistant meeting & discussion group. Co-organizer: Rebecca Nappa

## Workshops Organized

July 25, 2018 Massive Online Experiments in Cognitive Science (CogSci 2018)  
Co-Organizers & Presenters: Joshua De Leeuw, Joshua Hartshorne, Laura Germine, Katharina Reinecke, Mariela V. Jennings

Dec. 19-20, 2017 The Pushkin Developers' Workshop. Boston College / Chestnut Hill, MA  
Presenters: Joshua De Leeuw, Joshua Hartshorne, Mariela Jennings

Oct. 19-20, 2016 The VerbCorner Workshop. Boston College / Chestnut Hill, MA  
Invited Speakers: Beth Levin, Ben Ambridge, Martha Palmer, Tim O'Donnell, Joshua Hartshorne

Aug. 10, 2016 Learning to talk about events: Grounding language acquisition in intuitive theories and event cognition (CogSci 2016).  
Co-organized with Melissa Kline & Ev Wittenberg  
Invited Speakers: Dare Baldwin, Gergely Csibra, Cynthia Fisher, Noah Goodman, Joshua Hartshorne, Melissa Kline, Beth Levin, Josh Tenenbaum, Barbara Tversky, Eva Wittenberg, Jeffrey Zacks

Mar. 2, 2016 Events in Language and Cognition (CUNY 2016 pre-conference workshop)  
Co-organized with Melissa Kline and Eva Wittenberg. Invited Speakers: Jesse Snedeker, Elsi Kaiser

July 22, 2015 Language and Common Sense (CogSci 2015)  
Co-organizer: Joshua Tenenbaum  
Invited Speakers: Joshua Hartshorne, Joshua Tenenbaum, Jeffrey Siskind, Noah Goodman, Andrew Kehler, Percy Liang, Nancy Chang, Charles Ortiz, Jr., Tobias Gerstenberg, Elsi Kaiser

July 13, 2010 The Role of Social Cognition in Language Processing Summer Workshop  
Harvard University / Cambridge, MA  
Invited Speakers: Joshua Hartshorne, Rebecca Nappa, Jill De Villiers, Peter De Villiers, Lisa Edelson, Evalina Fedorenko, Manizeh Khan, Adrianna Jenkins, James Lee, Kyle Thomas, Kate Harrigan

June 17, 2010 Scalar Implicature Summer Workshop  
Harvard University / Cambridge, MA  
Invited Speakers: Joshua Hartshorne, Danny Fox, Noah Goodman, Gina Kuperberg, Manizeh Khan, Hazel Pearson, Gennaro Chierchia, Jacopo Romoli, Jesse Snedeker

## Post-Doctoral Fellows Sven Dietz (2017)

**Thesis Committees** Sophie Savelkoul (Master's, BC), Jesse Mu (undergraduate, BC), Lily Feinberg (undergraduate, BC), Juliani Vidal (undergraduate, BC), Tiwalayo Eisape (undergraduate, BC)

**Post-Bac Research Assistants** Jon Ravid, Lauren Skorb, Mariela Jennings, Miguel Mejia

**Undergraduate Research Assistants** Taylor Martinez, Kate Roberts, Rudmila Rashid, Jacob Bennett, Han Xiang Choong, Lily Feinberg, Zachary Barker, Juliani Vidal, Kayley Okst, Nicola Roux, Eric Seferian, Clinton Tak, Parker Robbins, Tiwalayo Eisape, Alexa Dudley, Casey Nicastrì, Tony Chen, Olivia Eastwood, Julie Hong, Shikun (Jason) Wang, Katherine Montas, Marissa Russell, Camille Phaneuf, William Merrill, Ernesto Gutierrez, Affy Wu, JungHo Lee, Cora Ives, Maria Jose Valdivia Cox, Varun Nambikrishnan, William Ades, Liana Llado, Jesse Mu, Arthi Vezhavendan, Mika Braginsky, Gabriel Hege, Jose Velarde, Michelle Namkoong, Lauren Bush, Kareem Itani, Stephanie McHugh, Samuel Thacker, Tanya Ivonchik, Brandon Benson, Christopher Delgado, Hayley Song, Kristen Jorgenson, Nchinda Nchinda, Allison Kozol, Briana Chen, Gabriel Frattallone, Sruthi Narayan, Lindsay Peterman, Daniel Tassone, Stephanie Liem, David Batuner, Lauren Grenzig, Yunqian Wang, Meera Kanabar, Claire Huang (with Manizeh Khan), Callie Sae Her, Sarah Goodloe, Allison Song, Rebecca Levitan, Chen Chen, Rebecca Podell, Miki Uruwashi, Maria Blokh, Mark Nasef Ragheb (with Manizeh Khan), Steve Faulkner, Yelyzaveta Ryabkina, Amanda Pogue, Meghan Sheridan

**High School Research Assistants** Yena Kim, Mark Seong Hun Yu

## SERVICE

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- Journal Reviewing (*ad hoc*) see [Publons](#)
- Conference Reviewing Architectures and Mechanisms in Language Processing (2014-2015), Boston University Conference on Language Development (2015), Cognitive Science Society (2011-2013, 2015-2017), CUNY Human Sentence Processing (2014), Discourse Expectations: Theoretical, Experimental, and Computational Perspectives (2013, 2017), Society for Philosophy and Psychology (2016)
- Grant Reviewing (Panel) National Defense Science and Engineering Graduate Fellowship (2013-2014), National Science Foundation Graduate Research Fellowship Program (2015)
- Grant Reviewing (*ad hoc*) German-Israeli Foundation for Scientific Research and Development (1), National Science Foundation Linguistics (1)
- Institutional Technological and Methodological Training Committee (chair), Psych Dep., BC (2016-current), Future Directions Committee, Psych Dep., BC (2016-current), Study Pool Committee, Harvard University (2008-2009)