

# Joshua K. HARTSHORNE

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## APPOINTMENTS

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- 2016-*Current* Assistant Professor of Psychology  
*Boston College*
- FALL 2022 Visiting Scholar  
*Academia Sinica, Taiwan*
- 2015-2015 Post-Doctoral Associate  
*Massachusetts Institute of Technology*  
Advisor: Josh Tenenbaum
- 2012-2015 Post-Doctoral Fellow  
RUTH L. KIRSCHSTEIN NRSA INDIVIDUAL FELLOWSHIP  
*Massachusetts Institute of Technology*  
Advisor: Josh Tenenbaum

## EDUCATION

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

## GRANTS, AWARDS, & SCHOLARSHIPS

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### External Grants

- 2023-2028 “CAREER: HOW MANY INTUITIVE PHYSICS SYSTEMS ARE THERE, AND WHAT DO THEY MEAN FOR PHYSICS EDUCATION?”  
National Science Foundation  
PI: Joshua Hartshorne  
Total BC Costs: \$1,562,735
- 2021-2024 “REU SITE: DEVELOPING SOCIAL MINDS”  
National Science Foundation  
Senior Personnel (PI: Katherine McAuliffe). Total BC Costs: \$330,331  
*This program is run jointly by 4 labs, but NSF regulations allow only 1 PI & 1 co-PI*
- 2022-2023 “POSE: PHASE I: AN OPEN-SOURCE ECOSYSTEM FOR MASSIVE ONLINE EXPERIMENTS AND CITIZEN SCIENCE”  
National Science Foundation  
PI: Joshua Hartshorne. Total BC Costs: \$296,162
- 2020-2023 “COLLABORATIVE RESEARCH: NSF2026: EAGER: A PLAYGROUND AND PROPOSAL FOR GROWING AN AGI”  
National Science Foundation

- co-PIs: Joshua Hartshorne, James Pustejovsky. Total BC Costs: \$198,663
- 2019-2023 “RR: COMP COG: A CHALLENGE SUITE FOR STATISTICAL WORD SEGMENTATION”  
National Science Foundation  
PI: Joshua Hartshorne. Total Costs: \$706,549
- 2019-2021 “CONNECTIVITY-BASED BAYESIAN NONPARAMETRIC MODELING OF INDIVIDUAL VARIABILITY IN AUTISM”  
Simons Foundation Autism Research Initiative (SFARI)  
PIs: Joshua Hartshorne & Stefano Anzellotti. Total Costs: \$299,258
- 2019-2019 “APA SUMMER UNDERGRADUATE PSYCHOLOGY RESEARCH EXPERIENCE”  
PI: Joshua Hartshorne. Co-PIs: Sara Cordes & Katherine McAuliffe. Total Costs: \$25,836
- 2016-2023 “COMP COG: LARGE-SCALE, EMPIRICALLY BASED, PUBLICLY ACCESSIBLE DATABASE OF ARGUMENT STRUCTURE TO SUPPORT EXPERIMENTAL AND COMPUTATIONAL RESEARCH”  
National Science Foundation  
PI: Joshua Hartshorne. Total Costs: \$442,473  
(Numbers include 2 supplements)
- 2020-2022 “RAPID: COLLABORATIVE RESEARCH: A “CITIZEN SCIENCE” APPROACH TO COVID-19 SOCIAL DISTANCING EFFECTS ON CHILDREN’S LANGUAGE DEVELOPMENT”  
National Science Foundation  
co-PIs: Joshua Hartshorne, Yi Ting Huang. Total BC Costs: \$151,942
- 2020-2021 “COLLABORATIVE RESEARCH: A VIRTUAL WORKSHOP ON CONDUCTING LANGUAGE RESEARCH ONLINE: ENHANCING THE RESILIENCE OF THE LANGUAGE SCIENCES IN A TIME OF SOCIAL DISTANCING”  
National Science Foundation  
co-PIs: Joshua Hartshorne, Joshua de Leeuw. Total BC Costs: \$33,880
- 2018-2018 “APA SUMMER UNDERGRADUATE PSYCHOLOGY RESEARCH EXPERIENCE”  
PI: Sara Cordes. Co-PIs: Joshua Hartshorne & Katherine McAuliffe. Total Costs: \$20,723
- 2016-2017 “INTENSIVE SUMMER PROGRAM IN PSYCHOLOGY FOR EXCEPTIONAL HIGH SCHOOL STUDENTS: A PILOT PROGRAM”  
Esther Rosen Katz Fund, American Psychological Foundation  
PI: Joshua Hartshorne. Co-PI: Katherine McAuliffe. Total Costs: \$18,000
- 2016 “WORKSHOP ON EVENTS IN LANGUAGE AND COGNITION”  
National Science Foundation  
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

## Internal Grants

- 2021-2022 Research Expense Grant (Boston College)  
PI: Joshua Hartshorne  
Total Costs: \$2,000
- 2021-2022 Research Across Disciplines (Boston College)  
PIs: Joshua Hartshorne & Emily Prud’hommeaux  
Total Costs: \$15,000
- 2021-2022 Ignite (Boston College)  
Total Costs: \$20,000
- 2020-2021 Research Incentive Grant (Boston College)  
Total Costs: \$15,000
- 2019-2021 “WORKSHOP ON INTEGRATED COGNITIVE SCIENCE AT BOSTON COLLEGE”

- Institute for the Liberal Arts, Boston College  
 PIs: Joshua Hartshorne & Stefano Anzellotti & Sergio Alvarez & Emily Prud'hommeaux. Total Costs: \$25,000
- 2019 Minor Grant (Institute for Liberal Arts, Boston College)  
 Total Costs: \$2,500
- 2019 Research Expense Grant (Boston College)  
 Total Costs: \$2,000
- 2019 Teaching, Advising, & Mentoring Expense Grant (Boston College)  
 Total Costs: \$652.45
- 2018-2020 Aging Research Incentive Grant (Boston College)  
 Total Costs: \$68,976
- 2017-2019 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

- 2023 NSF CAREER
- 2011 Jean Berko Gleason Award, BUCLD 2011, Best Student Presentation
- 2002 Dahl Essay Prize in Philosophy, Oberlin College
- 1998-2002 John Fredrick Oberlin Scholarship, Oberlin College
- 1998 National Merit Scholar
- 1998 Kansas Honor Scholar

## PUBLICATIONS

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\* denotes student/trainee; ◊ indicates equal effort.

Find links to articles at [l3atbc.org](https://l3atbc.org).

*in prep* \*Hua, Yining & **Joshua K. Hartshorne**. (*in prep*). Rapid vocabulary acquisition in early bilinguals.

**Hartshorne, Joshua K.**, \*Wesley Ricketts, \*Mariela Jennings, \*Miguel Mejia, \*Lauren Skorb, \*Han Xiang P. Choong, \*Alyssa Craparotta, \*Tiwa Eisape, \*Lily Feinberg, \*Shelby A. Grasso, \*David Kocen, \*Rachel Koelling, \*Lisa C. Kurt, \*Celine Jia Rong Lim, \*Jingrun Lin, \*Carrie E. Milinazzo, \*Alyson Wong, & \*Yueran Yang (*in prep*). Failure to account for inter-item variability undermines the statistical word segmentation literature.

*submitted* ◊**Hartshorne, Joshua K.** and ◊Jesse Snedeker. (*submitted*). Conceptual Nativism: The origins of language are in the structure of thought.

**Hartshorne, Joshua K.** (*submitted*). No evidence that age affects different bilingual learner groups differently: Rebuttal to van der Slik, Schepens, Bongaerts, and van Hout (2021).

Allen, Kelsey, Brandle, Franziska, Botvinick, Matthew, Fan, Judith, Gershman, Samuel J., Gopnik, Alison, Griffiths, Thomas L., **Hartshorne, Joshua K.**, Hauser, Tobias, Ho, Mark, de Leeuw, Joshua R., Ma, Wei Ji, Murayama, Kou, Nelson, Jonathan D., van Opheusden, Bas, Pouncy, Thomas, Rafner, Janet, Rahwan, Iyad, Rutledge, Robb, Sherson, Jacob, Simsek, Ozgur, Spiers, Hugo, Summerfield, Christopher, Thalmann, Mirko, Velez, Natalia, Watrous, Andrew, Tenenbaum, Joshua B., and Schulz, Eric. (*submitted*) Using games to understand the mind.

**Hartshorne, Joshua K.** (*submitted*). Just give them childcare: The COVID-19 pandemic as a natural experiment in parenting practices.

*in press* **Hartshorne, Joshua K.**, \*Yujing Huang, & \*Lauren Skorb. (*in press*). Some puzzling findings regarding the acquisition of verbs. *Language Development Research*

Erb, Christopher D., Laura T. Germine, and **Joshua K. Hartshorne**. (*in press*). Fractionating cognitive control: Congruency tasks reveal divergent developmental trajectories. *Journal of Experimental Psychology: General*

Oved, Iris, Nikhil Krishnaswamy, James Pustejovsky, & **Joshua K. Hartshorne**. (*in press*). Commentary: Neither Neural Networks nor the Language of Thought alone Make a Complete Game. *Brain and Behavioral Sciences*

2022 \*Li, Wei & **Joshua K. Hartshorne**. (2022). Even simultaneous bilinguals do not reach monolingual levels of proficiency in syntax. *Languages*, 7(4), 293. <https://doi.org/10.3390/languages7040293>.

\*Agliuskas, Aidan, **Joshua K. Hartshorne**, & Stefano Anzellotti. (2022). Contrastive AI reveals the structure of individual variation in Autism Spectrum Disorder. *Science*, 376(6597), 1070-1074.

**Hartshorne, Joshua K.** (2022). When do children lose the language instinct? A critical review of the critical periods literature. *Annual Review of Linguistics*, 8, 143-51.

\*Li, Wei, Laura T. Germine, Samuel Mehr, Mahesh Srinivasan, & **Joshua K. Hartshorne**. (2022). Building a generalizable & replicable developmental psychology with citizen science. *Infant and Child Development*. [doi.org/10.1002/icd.2348](https://doi.org/10.1002/icd.2348)

\*Chan, Jocelyn & **Joshua K. Hartshorne**. (2022). Is it easier for children to learn English if their native language is similar to English? *Proceedings of the Boston University Conference on Language Development*.

Erb, Christopher D., Laura T. Germine, and **Joshua K. Hartshorne**. (2022). Revisiting the inverted-U: Congruency tasks reveal divergent developmental trajectories. *Proceedings of the Annual Meeting of the Cognitive Science Society*.

\*Liu, Zoey, \*Tiwa Eisape, Emily Prud'hommeaux, and **Joshua K. Hartshorne**. (2022) Data-driven crosslinguistic syntactic transfer in second language learning. *Proceedings of the Annual Meeting of the Cognitive Science Society*.

\*Ricketts, Wesley and **Joshua K. Hartshorne**. (2022). Evaluating unsupervised word segmentation in adults: a meta-analysis. *Proceedings of the Annual Meeting of the Cognitive Science Society*.

- Almaatouq, Abdullah, Joshua A Becker, Michael S Bernstein, Robert Botto, Eric Bradlow, Ekaterina Damer, Angela L Duckworth, Tom Griffiths, **Joshua K Hartshorne**, David Lazer, Edith Law, Min Liu, J. N Matias, David G Rand, Matthew J Salganik, Emma Satlof-Bedrick, Maurice Schweitzer, Hirokazu Shirado, Jordan W Suchow, Siddharth Suri, Milena Tsvetkova, Duncan J Watts, Mark E Whiting, and Ming Yin. (2021). Scaling up experimental social, behavioral, and economic science. *OSF Preprint*. <https://doi.org/10.17605/OSF.IO/KNVJS>
- 2021 \*Chen, Tianhu & **Joshua K. Hartshorne**. (2021). More evidence from over 1.1 million subjects that the critical period for syntax closes in late adolescence. *Cognition*, 214, 104706.
- Hartshorne, Joshua K.**, Yi Ting Huang, Pablo Martín Lucio Paredes Aulestia, Kathleen Oppenheimer, \*Parker T. Robbins, & María Daniela Velasco Molina. (2021). Screen time as an index of family distress. *Current Research in the Behavioral Sciences*, 2, 100023.
- 2020 **Hartshorne, Joshua K.** (2020). How massive online studies (MOEs) can illuminate critical and sensitive periods in development. *Current Opinion in Behavioral Sciences*, 36, 135-143.
- Ebersole, C. R., Mathur, M. B., Baranski, E., Bart-Plange, D.-J., Buttrick, N. R., Chartier, C. R., Corker, K. S., Corley, M., **Hartshorne, J. K.**, Ijzerman, H., Lazarevic, L. B., Rabagliati, H., Ropvik, I., et al. (2020). Many Labs 5: Testing pre-data collection peer review as an intervention to increase replicability. *Advances in Methods and Practices in Psychological Science*, September, 3, 309-331.
- \*Skorb, L., Aczel, B., Bakos, B., \*Feinberg, L., Hałasa, E., Kauff, M., Kovacs, M., Krasuska, K., Kuchno, K., Manfredi, D., Montealegre, A., Pękala, E., Pieńkosz, D., \*Ravid, J., Rentzsch, K., Szaszi, B., Schulz-Hardt, S., Sioma, B., Szecsi, P., Szuts, A., Szöke, O., Christ, O., Fedor, A., Jiménez-Leal, W., Muda, R., Nave, G., Salamon, J., Schultze, T., & **Hartshorne, J. K.** (2020). Many Labs 5: Replication Report for Van Dijk, Van Kleef, Steinel, & Van Beest (2008). A social functional approach to emotions in bargaining: When communicating anger pays and when it backfires. *Journal of Personality and Social Psychology*, 94(4), 600-614. *Advances in Methods and Practices in Psychological Science*, 3, 418-428.
- Hartshorne, Joshua K.** (2020). The many blessings of abstraction: A commentary on Ambridge (2020). *First Language*, 40, 581-584.
- Niemi, Laura, **Joshua Hartshorne**, Tobias Gerstenberg, Matthew Stanley, & Liane Young. (2020). Moral values reveal the causality implicit in verb meaning. *Cognitive Science*, 44(6), e12838.
- 2019 Mehr, S. A., Singh, M., Knox, D., Ketter, D. M., Pickens-Jones, D., Atwood, S., Lucas, C., Egner, A., Jacoby, N., Hopkins, E. J., Howard, R. M., **Hartshorne, J. K.**, \*Jennings, M. V., Simson, J., Bainbridge, C. M., Pinker, S., O'Donnell, T. J., Krasnow, M. M., & Glowacki, L. (2019). A natural history of song. *Science*, 366(6468), eaax0868, DOI: 10.1126/science.aax0868.
- Hartshorne, Joshua K.** & Tal Makovski (2019). The effect of working memory on long-term memory acquisition and its relationship to vocabulary acquisition. *Memory and Cognition*, 47(4), 749-763.
- Feiman, Roman, **Joshua K. Hartshorne**, & David Barner (2019). Contrast and entailment: Abstract logical relations constrain how 2- and 3-year-old children interpret known numbers. *Cognition*, 183, 192-207.
- Hartshorne, Joshua K.**, Joshua de Leeuw, Noah Goodman, \*Mariela Jennings, & Timothy J. O'Donnell. (2019). A thousand studies for the price of one: Accelerating psychological science with Pushkin. *Behavior Research Methods*, 51(4), 1782—1803.
- Hartshorne, Joshua K.**, \*Lauren Skorb, \*Sven L. Dietz, \*Caitlin R. Garcia, \*Gina L. Iozzo, \*Katie E. Lamirato, \*James R. Ledoux, \*Jesse Mu, \*Kara N. Murdock, \*Jon Ravid, \*Alyssa A. Savery, \*James E. Spizzirro, \*Kelsey A. Trimm, \*Kendall D. van Horne, & \*Juliani Vidal. (2019). The meta-science of adult statistical word segmentation: Part 1. *Collabra: Psychology*, 5(1), 1. DOI: <http://doi.org/10.1525/collabra.181>
- 2018 **Hartshorne, Joshua K.**, Joshua B. Tenenbaum, & Steven Pinker. (2018). A critical period for second language acquisition: Evidence from 2/3 million English speakers. *Cognition*, 117, 263-277.
- Hartshorne, Joshua K.** & Eva Wittenberg. (2018). Review of Radvansky & Zacks (2014). Event Cognition. *Language and Cognition*, 10(2), 382-389.

- 2017 \*Mu, Jesse, **Joshua K. Hartshorne**, & Timothy O'Donnell. (2017). Evaluating hierarchies of verb argument structure with hierarchical clustering. *Proceedings of Empirical Methods in Natural Language Processing*, Copenhagen, Denmark.
- 2016 Goodman, Noah D., Joshua B. Tenenbaum, & The ProbMods Contributors (2016). Probabilistic Models of Cognition (2nd ed.). <https://probmods.org>
- Hartshorne, Joshua K.**, Timothy J. O'Donnell, Yasutada Sudo, \*Miki Uruwashi, 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., Munafò, 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.
- 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*.
- 2015 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.
- 2014 **Hartshorne, Joshua K.** (2014). What is Implicit Causality? *Language, Cognition, and Neuroscience*, 29(7), 804-824.
- 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.
- 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)*.
- 2013 **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.
- 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*.

- 2012 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.
- 2011 & earlier **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.
- 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.
- 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*.
- 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.

### 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'. (April 2010) *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 Talks without printed proceedings

- 2023 Oved, Iris, Carlos Montemayor, Nikhil Krishnaswamy, James Pustejovsky, & **Joshua K. Hartshorne**. (2023). The view from outside the Matrix: Doing philosophy of mind and cognitive science with virtual worlds. The Science of Consciousness Conference, Arizona .

- Krishnaswamy, Nikhil, Iris Oved, **Joshua K. Hartshorne**, & James Pustejovsky. (2023). Meaning to mean: A precondition for sentience and understanding in large language models. The Science of Consciousness Conference, Arizona .
- 2022 James, Ariel, Rachel A. Ryskin, **Joshua K. Hartshorne**, Haylee Backs, Nandeeta Bala, Laila Barcenas-Meade, Samata Bhattarai, Tessa Charles, Gerasimos Copoulos, Claire Coss, Alexander Eisert, Elena Furuhashi, Keara Ginel, Anna Guttman-McCabe, Chaz Harrison, Laura Hoba, William Hwang, Claire Iannetta, Kristen Koenig, Chauncey Lo, Victoria Palone, Gina Pepitone, Margaret Ritzau, Yi Hua Sung, Orcun Tasdemir, Lauren Thompson, Joshua R. de Leeuw. (2022). What paradigms can webcam eye-tracking be used for? Attempted replications of 5 “classic” cognitive science experiments. Cognitive Development Society, Madison, WI.
- Özge, Duygu, Ebru Evcen and **Joshua K. Hartshorne** (2022). Implicit causality biases in Turkish psychological state events. 3rd International Conference ‘Prominence in Language’, Cologne, Germany.
- 2021 \*Li, Wei & **Joshua K. Hartshorne**. (2021). Even simultaneous bilinguals do not quite reach monolingual levels of proficiency in syntax. Asia-Pacific Babylab Constellation (ABC) Conference, Hong Kong.
- \*Hua, Yining & **Joshua K. Hartshorne**. (2021). Quantifying the bilingual (dis)advantage in vocabulary acquisition. Asia-Pacific Babylab Constellation (ABC) Conference, Hong Kong.
- \*Huang, Yujing & **Hartshorne, J. K.**. (2021). Limitations of linking rules: Why are some verbs learned earlier than others? Asia-Pacific Babylab Constellation (ABC) Conference, Hong Kong.
- Hartshorne, J. K.** & J. R. de Leeuw. (2021). Experiments subjects want. Workshop on Using Games to Understand Intelligence. CogSci 2021.
- \*Chen, Tianhu, Timothy J. O’Donnell, & **Joshua Hartshorne**. (2021). Verb-argument structure and semantics in contextual word embeddings. DUCOG: Annual meeting of the Central European Cognitive Science Association, Dubrovnik.
- 2020 \*Robbins, P. T., Huang, Y. T., Lucio Paredes Aulestia, P. M., Oppenheimer, K., Velasco Molina, M. D., & **Hartshorne, J. K.** (2020, October 29–30). Metrics and causes of family distress during the COVID-19 pandemic [Conference presentation]. University of Southern California Center for Economic and Social Research COVID-19 Work in Progress Conference, Los Angeles, CA.
- 2019 **Hartshorne, Joshua K.** (2019). Automaticity of reading continues to develop into adulthood. Cognitive Development Society, Louisville, KY.
- Hartshorne, Joshua K.** (2019). Teaching science by doing science. Workshop on using replication studies to teach research methods in cognitive science, Annual Meeting of the Cognitive Science Society, Montreal, CA.
- \*Chen, Tianhu & **Joshua K. Hartshorne**. (2019). Revisiting a critical period for syntax in a second language: New analyses provide the same results. CUNY Conference on Human Sentence Processing, Boulder, CO.
- 2016-2018 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.
- 2015 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.
- 2014 **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.
- 2013 **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, Tubingen, 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.
- 2012 **Hartshorne, Joshua K.**, Timothy O'Donnell, Yasutada Sudo, \*Miki Uruwashi & 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.
- 2011 **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.
- 2010 & earlier **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

- 2022 **Hartshorne, Joshua K.** & \*Wesley Ricketts. (2022). Evaluating unsupervised word segmentation in adults: A meta-analysis. Interdisciplinary advances in statistical learning, San Sebastian, Spain, June 1-3.

- Liu, Zoey, \*Tiwa Eisape, Emily Prud'hommeaux, and **Joshua K. Hartshorne**. (2022). Uncovering crosslinguistic morphosyntactic transfer in second language learning. *Architectures & Mechanisms in Language Processing (AMLaP)*, York, UK.
- Levari, Tanya, Stefano Anzellotti, \*Aidas Aglinskias, Albert Kim, Emily Prud'hommeaux, & **Joshua K. Hartshorne**. (2022). Developmental continuity in neural semantic representations, *Architectures & Mechanisms in Language Processing (AMLaP)*, York, UK.
- Kim, Albert, Tanya Levari, Stefano Anzellotti, & **Joshua K. Hartshorne**. (2022). Developmental continuity in neural semantic representations, *Society for the Neurobiology of Language (SNL)*, Philadelphia, PA.
- 2021 \*Li, Wei & **Joshua K. Hartshorne**. (2021). Even simultaneous bilinguals do not quite reach monolingual levels of proficiency in syntax. *Boston University Conference on Language Development*.
- \*Aglinskias, Aidas, **Joshua K. Hartshorne**, & Stefano Anzellotti. (2021). Contrastive AI reveals the structure of individual variation in Autism Spectrum Disorder. *Society for Neuroscience*, Chicago, IL, Nov. 13-16.
- 2020 \*Eisape, Tiwalayo, \*William Merrill, \*Sven Dietz, & **Joshua K. Hartshorne**. (2020). Computationally investigating L1 influence on L2 production. *CUNY Conference on Human Sentence Processing*, Amherst, MA.
- Özge, Duygu, Ebru Evcen and **Joshua K. Hartshorne** (2020). Referential form, word order, and emotional valence in Turkish pronoun resolution. *CUNY Conference on Human Sentence Processing*, Amherst, MA.
- 2019 \*Chen, Tianhu and **Joshua K. Hartshorne** (2019). More evidence that the critical period for syntax ends at 17. *Boston University Conference on Language Development*, Boston, MA.
- Hartshorne, Joshua K.** (2019). Birth-order effects on vocabulary persist throughout the lifespan. *Boston University Conference on Language Development*, Boston, MA.
- Hartshorne, Joshua K.** (2019). Birth-order effects on vocabulary persist throughout the lifespan. *Cognitive Development Society*, Louisville, KY.
- Hartshorne, Joshua K.**, \*Mariela Jennings, Tobias Gerstenberg, & Joshua B. Tenenbaum. (2019). When circumstances change, update your pronouns. *Cognitive Science Society*, Montreal, CA.
- Hartshorne, Joshua K.**, \*Mariela Jennings, Tobias Gerstenberg, & Joshua B. Tenenbaum. (2019). When circumstances change, update your pronouns. *CUNY Conference on Human Sentence Processing*, Boulder, CO.
- \*Jennings, Mariela, Martha Palmer, & **Joshua K. Hartshorne**. (2019). How much does verb semantics determine verb syntax? *CUNY Conference on Human Sentence Processing*, Boulder, CO.
- 2018 \*Jennings, Mariela, Martha Palmer, & **Joshua K. Hartshorne**. (2018). How much does verb semantics determine verb syntax? *Architectures and Mechanisms in Language Processing*, Berlin, Germany.
- \*Jennings, Mariela & **Joshua K. Hartshorne**. (2018). Pushkin: An open-source engine for social science at scale. *Architectures and Mechanisms in Language Processing*, Berlin, Germany.
- \*Eisape, Tiwalayo, \*Merrill, Will, **Hartshorne, Joshua K.**, and \*Dietz, Sven (2018). Grammatical accents: Using Machine Learning to Understand Transfer from First Language to Second Language. *Fortieth Annual Conference of the Cognitive Science Society*, Madison, WI.
- \*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.
- \*Skorb, Lauren and **Joshua K. Hartshorne**. (2018). The Meta-Science of Adults Statistical Word Segmentation: Part 1. *Annual Meeting of the CUNY Conference on Human Sentence Processing*, Davis, CA
- Özge, Duygu, **Joshua K. Hartshorne**, & Jesse Snedeker. (2017). Saliency 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.
- 2017

- 2016 **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 Joshua K.**, & Kuperberg G. (2014). Fearing and loving: verb category matters in processing implicit causality. 6th Society for Neurobiology of Language Conference, Amsterdam, The Netherlands.
- 2013 **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.
- 2012 **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). She and her: Online and offline pronoun comprehension in children with ASD. BUCLD 36, Boston, MA
- 2010 **Hartshorne, Joshua K.** & Jesse Snedeker. (2010). Pronoun resolution, cue frequency, and cue reliability. Architectures and Mechanisms in Language Processing (AMLaP) conference, York, UK.
- 2009 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.
- 2008 & earlier 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) Word superiority in visual search for multiple possible targets. 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

- 2024 (planned) Plenary Symposium, Cognitive Development Society
- 2023 Language & Cognition Lab, Stanford University
- 2022 Reading/Tromso joint bilingualism meeting  
 Language & Brain, University of Florida  
 Brain & Language Lab, Georgetown University  
 Research Lightning Talks, COVID Information Commons  
 Institute of Linguistics, National Taiwan University (1/2)  
 Institute of Linguistics, National Taiwan University (2/2)  
 Institute of Linguistics, Academia Sinica, Taiwan  
 Institute of Linguistics, National Tsing Hua University, Taiwan  
 Taiwan Institute of Language Research & Teaching, National Tsing Hua University, Taiwan  
 Institute of Linguistics, National Chengchi University, Taiwan
- 2021 Simons Center for the Social Brain Colloquium, MIT  
 Bilingualism and Mind Brainlab, UC-Irvine  
 Invited Symposium, Eastern Psychological Association  
 Guest speaker for “Developmental Psychology in Practice”, UNC-Greensboro  
 Guest speaker for “Plasticity, Variability and Age in Second Language Acquisition”, UT-Austin  
 Language and Cognition Seminar, Harvard University  
 UCLA Developmental Psychology Forum, UCLA
- 2020 Guest lecture, Evolution and Origins of Cognition course, Harvard University  
 Current Works, Department of Psychology, Yale University  
 Experimental Psychology Society
- 2019 Speech, Language, and Hearing Sciences Spring 2019 Seminar Series, Boston University  
 Rutgers University Undergraduate Linguistics Club, Rutgers University (New Brunswick)

- Language & Cognition Seminar, Harvard University  
 Language Group, Princeton University  
 Guest speaker for “Plasticity, Variability and Age in Second Language Acquisition”, UT-Austin  
 CompLang, Massachusetts Institute of Technology  
 Cognition, Brain, & Behavior series, Harvard University  
 LingLangLunch seminar, Brown University  
 Learning and the Brain conference, Boston, MA
- 2018 Universals Seminar, Harvard University
- 2017 MIT Critical Data Course, MIT  
**Keynote**, Discourse Expectations: Theoretical, Experimental, and Computational Perspectives (DE-TEC)
- 2016 The VerbCorner Workshop, Boston College  
 MIT Critical Data Course, MIT  
 Developmental Colloquium, University of Massachusetts-Amherst
- 2015 Oxford Global Languages Symposium, Oxford University  
 Science on the Screen, Coolidge Corner Theater, Boston, MA  
 The Kavli science journalism workshop.
- 2014 Ad hoc lecture, Georgetown University
- 2013 Concepts Seminar, Harvard University  
 Ad hoc lecture, National Chiao Tung University, Taiwan  
 Ad hoc lecture, National Chiao Tung University, Taiwan  
 Ad hoc lecture, National Taiwan University, Taiwan  
 Linguistics Lunch, Brown University  
 Language & Cognition Seminar, Harvard University
- 2012 Ad hoc lecture, Oberlin College  
 Math Lunch, Oberlin College  
 Laboratory for Developmental Studies Seminar, Harvard University
- 2011 Stanford Psychology of Language Tea (SPLaT), Stanford University
- 2010 The Role of Social Cognition in Language Processing Summer Workshop, Harvard University  
 Scalar Implicature Summer Workshop, Harvard University
- 2003 Linguistic for Language Students course, Oberlin College  
 Ad hoc lecture, Central Michigan University  
 Ad hoc lecture, Saint Petersburg State University, Russia
- 2002 Introduction to Archaeology course, Oberlin College

## TEACHING

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### Courses Taught

- 2023 “Computational Models of Cognition,” Boston College / Boston, MA  
 “How Extraterrestrials Think,” Boston College / Boston, MA
- 2022 “BabyTalk,” Boston College / Boston, MA  
 “How Extraterrestrials Think,” Boston College / Boston, MA
- 2021 “BabyTalk,” Boston College / Boston, MA  
 “How Extraterrestrials Think,” Boston College / Boston, MA
- 2019 “How Extraterrestrials Think,” Boston College / Boston, MA
- 2018 “Language Acquisition and Development,” Boston College / Boston, MA  
 “Computational Models of Cognition,” Boston College / Boston, MA  
 “Language Acquisition and Development,” Boston College / Boston, MA  
 “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  
“Intro to Neurolinguistics,” Irkutsk State University of Linguistics / Irkutsk, Russia
- 2001 “Advanced English Conversation” Russian International Academy of Tourism / Irkutsk, Russia  
“Robert Jordan’s *Wheel of Time*,” Oberlin College / Oberlin, OH
- 2000 “Swing Dancing (advanced),” Oberlin College / Oberlin, OH  
“Swing Dancing (beginning),” Oberlin College / Oberlin, OH

### Teaching Assistant

- 2011-2013 “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)

*I often organize reading groups & seminars that draw trainees and faculty from surrounding institutions as well as my home institution.*

- 2022 Bootstrapping Language Reading Group. Boston College / Chestnut Hill, MA  
Twice-monthly intensive summer reading group
- 2021 Concepts Reading Group. Boston College / Chestnut Hill, MA  
Weekly summer reading group
- 2016-2017 Monday Methods Meetings. Boston College / Chestnut Hill, MA  
Monthly methods discussion group for students, post-docs, and faculty
- 2016 Argument Structure. Massachusetts Institute of Technology / Cambridge, MA  
Weekly reading/research meeting
- 2015 Events Reading Group. Massachusetts Institute of Technology / Cambridge, MA  
Weekly meeting
- 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
- 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. Co-founded by me and continues to present day.  
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<sup>1</sup> Research Workshops.
- 2009 Social Cognition & Language. Harvard University / Cambridge, MA  
Research assistant meeting & discussion group. Co-organizer: Rebecca Nappa

### Workshops Organized

- Nov. 18, 2021 Virtual Workshop on Virtual Eyetracking  
Speakers: Josh Hartshorne, Josh de Leeuw, Rachel Ryskin, Ariel James, Ian Krajbich, Anthony Yacovone, Mieke Slim, Shari Liu, Maggie Kandel
- Summer, 2020 Moving Research Online (Virtual)

- Co-Organizer: Joshua R. de Leeuw  
Speakers: Joshua K. Hartshorne, Joshua R. de Leeuw, Rebecca Gilbert
- July 29, 2020 Workshop on Scaling Cognitive Science (CogSci 2020)  
Co-Organizers: Thomas L. Griffiths, Jordan Suchow  
Speakers: Thomas L. Griffiths, Joshua K. Hartshorne, Mayank Agrawal, Andrea Simenstead, Jordan Suchow, Todd Gureckis, Lauren Rutter, James Houghton
- Dec. 16-18, 2019 Scaling Cognitive Science (Princeton University)  
Co-Organizers: Thomas L. Griffiths, Jordan Suchow  
Invited Speakers: Lucy Fortson, Yoav Bar-Anon, Sam Mehr, Todd Gureckis, Alex Paxton, Mayank Agrawal, Mike Frank, Mark Steyvers, Ben Stenhaus, Grant Buckles, Josh de Leeuw, Abdullah Almaatouq, Grant Miller, Bri Cho, Diana Tamir, Jason Radford, Sam Blazek, Steve Cambria
- 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

## Students Supervised

- Post-Doctoral Fellows Sven Dietz (2017), Aidas Aglinskis (2019—...), Yuting Huang (2020—2021), Mengguo Jing (2021—2022), Jesse Storbeck (2023—...)
- Graduate Students Mariela Jennings (2019—2020), Wei Li (2020—...), Amir Soltani (2022—...)
- Lab Managers/Techs Jon Ravid, Lauren Skorb, Mariela Jennings, Miguel Mejia, Wesley Ricketts, Parker Robbins.
- McNair Scholars Tiwalayo Eisape, Juliani Vidal
- Gabelli Scholars Duy-Tan Dao
- Thesis Committees Hamed Kerdabadi (Ph.D., BC), Sophie Savelkouls (Master's, BC), Alicia Bergeron (undergraduate, BC).
- Coop Students Zakir Makhani, Myles Bandel, Jeremiah Isaac, Megan Rest, Alex Ichimura, Anna Petti, Jianxu Wang, Rui Han, Eric Gu, Zeen Naeem, Hayley Greenough, Parker Robbins.
- Master's RAs Alejandra Tejo, Juliani Vidal, Mington Li, Justin Feng, Ning Hua, Hao Zeng

Undergraduate Theses	Jesse Mu (undergraduate, BC), Lily Feinberg (undergraduate, BC), Juliani Vidal (undergraduate, BC), Tiwalayo Eisape (undergraduate, BC), Tony Chen (undergraduate, BC), William Pyle (undergraduate, BC), Jocelyn Hui Yan Chan (undergraduate, BC), Ethan Amato (undergraduate, BC), Heesu Yun (undergraduate, BC).
Undergraduate RAs	Alejandra Sanchez, Ning Duan, Affy Wu, Alexa Dudley, Alexa Rivas, Alice Lim, Allison Song, Allison Kozol, Amanda Pogue, Amelia Fineberg, Andrew Chough, Annabel Lee, Anushka Fernandes, Arthi Vezhavendan, Asher Kang, Audrey Veator, Avery Gu, Brandon Benson, Briana Chen, Briana Ruiz, Caitlin Garcia, Camille Phaneuf, Callie Sae Her, Casey Nicastrì, Chris Mitchell, Christian Ramirez, Claire Huang (with Manizeh Khan), Claudia Reino, Clinton Tak, Chen Chen, Christopher Delgado, Cora Ives, Daniel Tassone, David Batuner, David Kocen, Deena Mohamed, Duncan Wang Eric Echeandia, Eric Seferian, Ernesto Gutiérrez, Ethan Amato, Everett Kim, Ezekiel (Zeke) Coleman, Gabriel Frattallone, Gabriel Hege, Han Choong, Hannah Yoon, Hayley Song, Heesu Yun, Heleni Singer, Imaan Salimi, Inés Martínez Velasco, Irene Yi, Jacob Bennett, Jesse Mu, Jocelyn Chan, Jose Velarde, Joy Johnson, Judeline Joseph, Juliani Vidal, Julie Hong, JungHo Lee, Kareem Itani, Kate Sindt (née Roberts), Katherine Karafotas, Katherine Montas, Kayley Okst, Kristen Jorgenson, Lauren Bush, Lauren Grenzig, Le You, Liana Llado, Lilia McGee-Harris, Lily Feinberg, Lindsay Peterman, Madeleine McCann, Maria Blokh, Maria Jose Valdivia Cox, Marissa Russell, Mark Chudnovsky, Mark Nasef Ragheb (with Manizeh Khan), Maryanna Valencia, Meera Kanabar, Meghan Sheridan, Michelle Namkoong, Mika Braginsky, Miki Uruwashì, Nchinda Nchinda, Nicola Roux, Olivia Eastwood, Oluwaseun (Seun) Eisape, Phúc (Philip) Huynh Lê, Rachel Duquette, Rebecca Levitan, Rebecca Podell, Rudmila Rashid, Ruoshan Zhou, Samuel Thacker, Sarah Al-Mayahi, Sarah Goodloe, Sebastian (Alex) Clendenning-Jimenez, Seung Kim, Shaan Bijwadia, Shikun (Jason) Wang, Siva Zhou, Stephanie Liem, Steve Faulkner, Sruthi Narayan, Stephanie McHugh, Sunny Yeo, Tanya Ivonchuk, Taylor Martinez, Thomas Dickson, Tianhu (Tony) Chen, Tinuade McClish, Tiwalayo Eisape, Varun Nambikrishnan, Wendy Uelk, Wenshuo Qin, Will Ades, William (Jaq) Pyle, William Merrill, Yelyzaveta Ryabkina, Yining Hua, Yunqian Wang, Zach Barker, Ziyue (Suzie) Su.
High School RAs	Yena Kim, Mark Seong Hun Yu, Akash Kumar, Zoe Elizee, Jay Garg, Heather Krasner, Praharshitha Allam, Riya Shukla, Ivy Wang, Salma Hazimeh, Seth Lockwood, Kira (Fangze) Tian, Mark Seong Hun Yu
McNair Exploratory Scholars	Wenshuo Qin, Shemar Joseph, Kyra Trimm, Anh Nguyen, Bilal Wahid

## MEDIA COVERAGE & APPEARANCES (SELECTED)

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### Print

- AI reveals how the brain's anatomy changes with Autism. *Daily Beast*, June 2, 2022.
- Stressed about your kids' screen time? Don't be. *Boston Globe*, December 18, 2020.
- Seattle-area parents want rules about screen time, but experts say off-screen interactions matter more. *Seattle Times*. Oct. 13, 2020.
- In quarantine, kids pick up parents' mother tongues. *New York Times*. Sept. 10, 2020.
- Science can explain why some songs are universal. *The Wall Street Journal*. Nov. 21, 2019.
- La música sigue patrones universales. *El País*, November 21, 2019.
- Scientists confirm music is universal, and it is used in 'strikingly similar ways' across the globe. *Newsweek*. Nov. 21, 2019.
- What makes a song? It's the same recipe in every culture. *Scientific American*. Nov. 21, 2019.
- Why it's so hard to learn French in middle age. *New York Times*, April 30, 2019.
- ¿A qué edad alcanzamos el punto máximo de inteligencia? *BBC Mundo*, March 16, 2019.



- When does intelligence peak? *Scientific American*, February 28, 2019
- To master a language, start learning it early. *The Economist*, May 10, 2018.
- Why language fluency depends on starting to learn in childhood. BBC Newshour. May 1, 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.
- This is the best age to learn a second language. IFLScience, May 2, 2018.
- Scientists pinpoint best age to learn a second language. *Newsweek*, May 1, 2018.
- Want to learn a foreign language fluently? Start before 10, study finds. *The Telegraph*, May 1, 2018.
- This the exact age when your brain power peaks. *New York Post*, August 1, 2017
- Is Donald Trump too old to be president? *Politico*, February 28, 2016.
- How easily distracted are you? Here, distract yourself with this game to find out. *New York Magazine*, February 2, 2016.
- Many psychology findings not as strong as claimed, study says. *New York Times*, August 27, 2015.
- Many scientific studies can't be replicated. That's a problem. *Washington Post*, August 27, 2015.
- Massive International Project Raises Questions about the Validity of Psychology Research. *Scientific American*, August 27, 2015
- That Amazeballs Scientific Study You Just Shared on Facebook Is Probably Wrong, Study Says. *Slate*, August 27, 2015.
- Try again. *Economist*, August 27, 2015.
- Trouble for science. XKCD, No. 1574.
- Science isn't broken. FiveThirtyEight, August 19, 2015.
- How intelligence shifts with age. *Wall Street Journal*, June 29, 2015.
- New Study Shows That Your Brain's Powers Change As You Age – Some Peaking In Your 70s. *Forbes*, March 23, 2015.
- The smartest age. *The Atlantic*. March 17, 2015.
- Older really can mean wiser. *New York Times*, March 16, 2015.
- Growing old can actually BOOST your brainpower: Study finds some areas of our brain do not peak until our fifties. *Daily Mail*, March 11, 2015
- Older and wiser? Some brain functions improve as we age. *Boston Globe*, March 6, 2015.
- Serious games. *Economist*, June 19, 2014.
- Knowing your place. *Sydney Morning Herald*, February 3, 2014.
- Get Involved in Citizen Science of the Mind. *Scientific American*, January 1, 2014
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- How many memories fit in your brain? *New York Times*, June 22, 2007.

## TV/Radio

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- Living Lab (NPR), The language learning window, May 14, 2018.
- BBC World Service, Why language fluency depends on starting to learn in childhood, May 1, 2018.
- Morning Edition (NPR), Scientific Findings Often Fail To Be Replicated, Researchers Say, August 28, 2015
- Radio Boston (WBUR), MIT, MGH Research Says Not All Cognitive Abilities Decline As You Age, March 9, 2015.
- Fox 25 News, Research shows first born children garner most success, November 19, 2013.

## SERVICE

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Editorial Boards	Language Development Research Psycholinguistics (Ukrainian journal)
Editing	Special issue on “Language & War“, <i>East European Journal of Psycholinguistics</i>
Grant Reviewing (Panel)	National Defense Science and Engineering Graduate Fellowship (2013-2014) National Science Foundation Graduate Research Fellowship Program (2015) EHR Core Research (ECR) program, National Science Foundation (2022)
Grant Reviewing ( <i>ad hoc</i> )	German-Israeli Foundation for Scientific Research and Development (1), U.S.-Israel Binational Science Foundation (1) National Science Foundation (3) Max Plank Institute (1)
Journal Reviewing ( <i>ad hoc</i> )	see <a href="#">Publons</a>
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, 2018, 2020), Discourse Expectations: Theoretical, Experimental, and Computational Perspectives (2013, 2017), Society for Philosophy and Psychology (2016)
Institutional	Technological and Methodological Training Committee, Psych Dep., BC (2016— current; chair 2016-2018) Outreach Committee, Psych Dep., BC (2021—current) Diversity and Inclusion Committee, Psych Dep., BC (2018—current) Faculty Search Committee, Psych Dep., BC (2018), Future Directions Committee, Psych Dep., BC (2016—2018), Study Pool Committee, Harvard University (2008—2009)