

Leon Bergen

Contact Information

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Education

MIT Brain and Cognitive Sciences, Ph.D. (in progress), 2010-

MIT Philosophy, Ph.D. program, 2009-2010.

Swarthmore College, BA in Mathematics and Philosophy, 2009 (with Highest Honors).

Grants and Awards

2015 XPrag Collaboration Project Award.

2014 Cognitive Science Society paper prize for computational modeling of language.

2014 NSF Doctoral Dissertation Improvement Grant.

2012 Leventhal Fellowship, MIT BCS.

2011 NSF Graduate Research Fellowship.

2011 NDSEG Fellowship (declined).

2010 Singleton Fellowship, MIT BCS.

2009 Phi Beta Kappa.

2008 Eugene Lang Summer Initiative Grant.

2006 Morris Monksy Prize in Mathematics.

2005 National Merit Scholar.

Publications

Submitted/In prep.

Bergen, L., Gibson, E., & O'Donnell, T. J. (Under review) Arguments and modifiers from the learner's perspective.

Bergen, L., Goodman, N. D., & Levy, R. (Under Review) Pragmatic reasoning as semantic inference.

Bergen, L. & Goodman, N.D. (In prep.) Quantifier domain restriction in probabilistic pragmatics.

Bergen, L. & Gibson, E. (In prep.) Agreement errors are rational comprehension errors.

Fedorenko, E., Stearns, L., Bergen, L., Eddy, M., & Gibson, E. (In prep.) The P600 ERP component indexes rational error correction within a noisy-channel model of human communication.

Refereed Journal Articles

Bergen, L. & Goodman, N. D., (2014). The strategic use of noise in pragmatic reasoning. *Topics in Cognitive Science*.

Kao, J., Wu, J., Bergen, L., & Goodman, N. (2014) Nonliteral understanding of number words. *Proceedings of the National Academy of Sciences*.

Gibson, E., Bergen, L., & Piantadosi, S. T. (2013). Rational integration of noisy evidence and prior semantic expectations in sentence interpretation. *Proceedings of the National Academy of Sciences*.

Gibson, E., Piantadosi, S. T., Brink, K., Bergen, L., Lim, E., & Saxe, R. (2013). A Noisy-Channel Account of Crosslinguistic Word-Order Variation. *Psychological Science*.

Bergen, L., & Grodner, D. (2012). Speaker Knowledge Influences the Comprehension of Pragmatic Inferences, *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

Adamczak, W., Andrew, K., Bergen, L., Ethier, D., Hernberg, P., Lin, J., & Tamon, C. (2007). "Non-uniform mixing of quantum walk on cycles," *International Journal of Quantum Information*.

Refereed Conference Proceedings Papers

Bergen, L. & Goodman, N. D., (2014). The strategic use of noise in pragmatic reasoning. In *Proceedings of the Thirty-Sixth Annual Conference of the Cognitive Science Society*. [**Winner of the 2014 Cognitive Science Society computational modeling prize for Language.**]

Kao, J., Bergen, L., & Goodman, N. D., (2014). Formalizing the pragmatics of metaphor understanding. In *Proceedings of the Thirty-Sixth Annual Conference of the Cognitive Science Society*.

Levy, R., Bergen, L., & Goodman, N. D., (2014). 'Roses and flowers': An informativeness implicature in probabilistic semantics. In *Semantics and Linguistics Theory (SALT) 24*.

Bergen, L., Gibson, E., & O'Donnell, T. J. (2013). Arguments and Modifiers from the Learner's Perspective. In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics*.

Levy, R., Bergen, L., & Goodman, N. (2013). Roses and flowers: an informativeness implicature in probabilistic pragmatics. In *Workshop on Bayesian Natural Language Semantics and Pragmatics, ESSLLI 2013*.

Bergen, L., Goodman, N. D., & Levy, R. (2012). That's what she (could have) said: How alternative utterances affect language use. In *Proceedings of the Thirty-Fourth Annual Conference of the Cognitive Science Society*.

Bergen, L., Levy, R., & Gibson, E. (2012). Verb omission errors: Evidence of rational processing of noisy language inputs. In *Proceedings of the Thirty-Fourth Annual Conference of the Cognitive Science Society*.

Bergen, L., Evans, O. R., & Tenenbaum, J. B. (2010). Learning structured preferences. In *Proceedings of the Thirty-Second Annual Conference of the Cognitive Science Society*.