Roger Levy

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RESEARCH INTERESTS

My research focuses on theoretical and applied questions in the processing and acquisition of natural language. Linguistic communication involves the resolution of uncertainty over a potentially unbounded set of possible signals and meanings. How can a fixed set of knowledge and resources be deployed to manage this uncertainty, how is the knowledge acquired, and what is the character of the resources required for these operations by the human mind? To address these questions I combine computational modeling, psycholinguistic experimentation, and analysis of large naturalistic language datasets. This work furthers our understanding of the cognitive underpinning of language processing and acquisition, and helps us design models and algorithms that will allow machines to process human language.

POSITIONS HELD

Professor 2021– Department of Brain & Cognitive Sciences, Massachusetts Institute of Technology

Associate Professor 2016–2021

Department of Brain & Cognitive Sciences, Massachusetts Institute of Technology Associate Professor 2012–2016

Department of Linguistics, University of California, San Diego

Assistant Professor 2006–2012

Department of Linguistics, University of California, San Diego

UK Economic & Social Research Council Postdoctoral Fellow 2005–2006

Syntax, Probability, Prediction, and Memory in Human Sentence Processing

Institute for Communicating and Collaborative Systems

School of Informatics, University of Edinburgh

EDUCATION

Stanford University, Ph.D. in Linguistics

2005

Dissertation Title: *Probabilistic Models of Word Order and Syntactic Discontinuity* Committee: Christopher Manning (chair), Dan Jurafsky, Ivan Sag, Tom Wasow

Stanford University, M.S. in Anthropological Sciences

2002

Thesis Title: Evolution of Inbreeding Avoidance

Advisor: Arthur Wolf

University of Tokyo, Research Student in Biological Anthropology

1997–1998

Advisor: Kenichi Aoki

| Inter-University Program for Chinese Language Study | 1996–1997 |
|--|------------------------|
| Fulbright Fellow | |
| Taipei, Taiwan (Stanford Center) | 4007 |
| University of Arizona, B.S. in Mathematics | 1996 |
| Magna cum Laude (Minor: Physics) | |
| Honors and Awards | |
| MIT Brain & Cognitive Sciences Award for Excellence in Undergraduate | Teaching, for |
| 9.19/9.190: Computational Psycholinguistics | 2021 |
| Outstanding Reviewer, International Conference on Learning Representation | ns 2021 |
| MIT Brain & Cognitive Sciences Postdoc Award to an Outstanding Mentor | 2020 |
| International Chair in Empirical Foundations of Linguistics, LabEx collabora | tive 2018 |
| Marr Prize for Best Student Paper, Annual Conference of the Cognitive Scien | |
| Meilin Zhan (Zhan & Levy 2018) | 2018 |
| Cambridge Community Television Rossi Award for Creative and Responsive | Leadership, |
| presented to MIT Day of Action | 2017 |
| MIT Institute Community and Equity Award, for work on the Day of Action | 2017 |
| Best Paper Award, Annual Meeting of the Association for Computationa | l Linguistics |
| (Gutierrez, Levy, & Bergen 2016) | 2016 |
| Fellow, Center for Advanced Study of the Behavioral Sciences, Stanford, CA | |
| Alfred P. Sloan Research Fellowship | 2012–2014 |
| NSF Faculty Early Career Development (CAREER) Award | 2010–2015 |
| Best Student Paper Award, ACM International Conference on Multimedia (| |
| al., 2010) | 2010 |
| UC San Diego Hellman Fellow | 2010–2011 |
| UC San Diego Faculty Career Development Program Award | 2009–2010 |
| e e e e e e e e e e e e e e e e e e e | 0, 2011, 2015 |
| Royal Society of Edinburgh travel grant | 2007 |
| UK Economic & Social Research Council Postdoctoral Fellowship | 2005–2006 |
| Departmental Fellowship, Stanford University | 2003–2004 |
| Summer Research Grant, Center for East Asian Studies, Stanford University | 2003 |
| Departmental Fellowship, Stanford University | 2001–2002 |
| National Science Foundation Graduate Fellowship | 1998–2001 |
| Japanese Ministry of Education Graduate Fellowship | 1997–1998 1996–1997 |
| Fulbright Graduate Fellowship University of Michigan Technical Japanese Program Summer Fellowship | 1990–1997 |
| Phi Beta Kappa | 1996 |
| Outstanding Graduate in Mathematics, University of Arizona | 1996 |
| Minnesota Supercomputer Institute Summer Internship | 1995 |
| National Security Education Program Scholarship | 1994–1995 |
| Elina Cabalarahia | 1001 1006 |

1991-1996

Flinn Scholarship

REFEREED JOURNAL ARTICLES

Wehbe, L., Blank, I. A., Shain, C., Futrell, R., Levy, R., von der Malsburg, T., Smith, N., Gibson, E. & Fedorenko, E. (In press). Incremental language comprehension difficulty predicts activity in the language network but not the multiple demand network. *Cerebral Cortex*, https://www.biorxiv.org/content/early/2020/04/17/2020.04.15.043844.full.pdf.

Zhan, M., Levy, R. & Kehler, A. (2020). Pronoun interpretation in Mandarin Chinese follows principles of Bayesian inference. *PLoS One*, *15*(8), 1–42.

Futrell, R., Levy, R. P. & Gibson, E. (2020). Dependency locality as an explanatory principle for word order. *Language*, 96(2), 371–412.

Futrell, R., Gibson, E. & Levy, R. P. (2020). Lossy-context surprisal: An information-theoretic model of memory effects in sentence processing. *Cognitive Science*, 44, 1–54.

Ryskin, R., Levy, R. P. & Fedorenko, E. (2020). Do domain-general executive resources play a role in linguistic prediction? Re-evaluation of the evidence and a path forward. *Neuropsychologia*, 136, 1–12.

Bicknell, K., Levy, R. & Rayner, K. (2020). Ongoing cognitive processing influences precise eye movement targets in reading. *Psychological Science*, 1–12.

von der Malsburg, T., Poppels, T. & Levy, R. (2020). Implicit gender bias in linguistic descriptions for expected events: The cases of the 2016 US and 2017 UK elections. *Psychological Science*, 1–14.

Boyce, V., Futrell, R. & Levy, R. (2020). Maze made easy: Better and easier measurement of incremental processing difficulty. *Journal of Memory and Language*, 111, 1–13.

Gibson, E., Futrell, R., Piantadosi, S., Dautriche, I., Mahowald, K., Bergen, L. & Levy, R. (2019). How efficiency shapes human language. *Trends in Cognitive Sciences*, 23(5), 389–407.

Aslin, R. N. & Levy, R. P. (2019). Cognitive science honors the memory of Jeffrey Elman. *Open Mind*, 3, 23–30.

Kaestner, E., Morgan, A. M., Snider, J., Zhan, M., Jiang, X., Levy, R., Ferreira, V. S., Thesen, T. & Halgren, E. (2018). Toward a database of intracranial electrophysiology during natural language presentation. *Language, Cognition and Neuroscience*.

Gibson, E., Jara-Ettinger, J., Levy, R. P. & Piantadosi, S. T. (2018). The use of a computer display exaggerates the connection between exact and approximate number ability in remote populations. *Open Mind*, 2(1), 37–46.

Meylan, S., Frank, M. C., Roy, B. C. & Levy, R. (2017). The emergence of an abstract grammatical category in children's early speech. *Psychological Science*, 28(2), 181–192.

Jara-Ettinger, J., Piantadosi, S., Spelke, E. S., Levy, R. & Gibson, E. (2017). Mastery of the logic of natural numbers is not the result of mastery of counting: Evidence from late counters. *Developmental Science*, 20(6), e12459.

Wittenberg, E. & Levy, R. (2017). If you want a quick kiss, make it count: How choice of syntactic construction affects event construal. *Journal of Memory and Language*, 94, 254–271.

Leinenger, M., Myslin, M., Rayner, K. & Levy, R. (2017). Do resource constraints affect

lexical processing? Evidence from eye movements. *Journal of Memory and Language*, 93, 82–103.

Gibson, E., Piantadosi, S. T. & Levy, R. (2017). *Post Hoc* analysis decisions drive the reported reading time effects in Hackl, Koster-Hale & Varvoutis (2012). *Journal of Semantics*, 34, 539–546.

Futrell, R., Levy, R. & Gibson, E. (2017). Generalizing dependency distance: Comment on "dependency distance: A new perspective on syntactic patterns in natural languages" by Haitao Liu et al. *Physics of Life Reviews*, 21, 197–199.

Morgan, E. & Levy, R. (2016a). Abstract knowledge versus direct experience in processing of binomial expressions. *Cognition*, 157, 384–402.

Potts, C., Lassiter, D., Levy, R. & Frank, M. C. (2016). Embedded implicatures as pragmatic inferences under compositional lexical uncertainty. *Journal of Semantics*, 33(4), 755–802.

Bergen, L., Levy, R. & Goodman, N. (2016). Pragmatic reasoning through semantic inference. *Semantics and Pragmatics*, 9(20).

Pająk, B., Creel, S. C. & Levy, R. (2016). Difficulty in learning similar-sounding words: A developmental stage or a general property of learning? *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 42(9), 1377–1399.

Myslín, M. & Levy, R. (2016). Comprehension priming as rational expectation for repetition: Evidence from syntactic processing. *Cognition*, 147, 29–56.

Myslín, M. & Levy, R. (2015a). Codeswitching and predictability of meaning in discourse. *Language*, 91(4), 871–905.

Kao, J. T., Levy, R. & Goodman, N. D. (2015). A computational model of linguistic humor in puns. *Cognitive Science*, 1–16.

Pająk, B. & Levy, R. (2014). The role of abstraction in non-native speech perception. *Journal of Phonetics*, 46, 147–160.

Pereira, J. C., Coviello, E., Doyle, G., Rasiwasia, N., Lanckriet, G., Levy, R. & Vasconcelos, N. (2014). On the role of correlation and abstraction in cross-modal multimedia retrieval. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 36(3), 521–535.

Schotter, E. R., Bicknell, K., Howard, I., Levy, R. & Rayner, K. (2014). Task effects reveal cognitive flexibility responding to frequency and predictability: Evidence from eye movements in reading and proofreading. *Cognition*, 131(1), 1–27.

Levy, R., Fedorenko, E. & Gibson, E. (2013). The syntactic complexity of Russian relative clauses. *Journal of Memory and Language*, 69(4), 461–495.

Smith, N. J. & Levy, R. (2013). The effect of word predictability on reading time is logarithmic. *Cognition*, 128(3), 302–319.

Levy, R. & Gibson, E. (2013). Surprisal, the PDC, and the primary locus of processing difficulty in relative clauses. *Frontiers in Psychology*, 4(229).

Barr, D. J., Levy, R., Scheepers, C. & Tily, H. J. (2013). Random effects structure for confirmatory hypothesis testing: Keep it maximal. *Journal of Memory and Language*, 68(3), 255–278.

Levy, R. & Keller, F. (2013). Expectation and locality effects in German verb-final struc-

tures. Journal of Memory and Language, 68(2), 199–222.

Bicknell, K. & Levy, R. (2012a). The utility of modeling word identification from visual input within models of eye movements in reading. *Visual Cognition*, 20(4–5), 422–456.

Levy, R., Fedorenko, E., Breen, M. & Gibson, T. (2012). The processing of extraposed structures in English. *Cognition*, 122(1), 12–36.

Levy, R. & Daumé III, H. (2011). Computational methods are invaluable for typology, but the models must match the questions: Commentary on Dunn et al. (2011). *Linguistic Typology*, 15(2), 393–399.

Rohde, H., Levy, R. & Kehler, A. (2011). Anticipating explanations in relative clause processing. *Cognition*, 118(3), 339–358.

Levy, R., Bicknell, K., Slattery, T. & Rayner, K. (2009a). Eye movement evidence that readers maintain and act on uncertainty about past linguistic input. *Proceedings of the National Academy of Sciences*, 106(50), 21086–21090.

Levy, R. (2008a). Expectation-based syntactic comprehension. *Cognition*, 106(3), 1126–1177.

Benor, S. B. & Levy, R. (2006). The chicken or the egg? A probabilistic analysis of English binomials. *Language*, 82(2), 233–278.

REFEREED CONFERENCE PROCEEDINGS PAPERS

Qian, P., Naseem, T., Levy, R. & Astudillo, R. F. (2021). Structural guidance for Transformer language models, In *Proceedings of the 59th annual meeting of the Association for Computational Linguistics*.

Wilcox, E., Vani, P. & Levy, R. P. (2021). A targeted assessment of incremental processing in neural language models and humans, In *Proceedings of the 59th annual meeting of the Association for Computational Linguistics*.

Tucker, M., Qian, P. & Levy, R. P. (2021). What if this modified that? Syntactic interventions with counterfactual embeddings, In *Findings of the Association for Computationa Linguistics*.

Berzak, Y. & Levy, R. P. (2021). Eye movement traces of linguistic knowledge, In *Proceedings of the 43rd annual meeting of the Cognitive Science Society*.

Chen, R., Levy, R. P. & Eisape, T. (2021). On factors influencing typing time: Analyzing TypeRacer's massive open access dataset, In *Proceedings of the 43rd annual meeting of the Cognitive Science Society*.

Meylan, S. C., Foushee, R., Bergelson, E. & Levy, R. P. (2021). Child-directed listening: How caregiver inference enables children's early verbal communication, In *Proceedings of the 43rd annual meeting of the Cognitive Science Society*.

Vani, P., Wilcox, E. G. & Levy, R. P. (2021). Using the Interpolated Maze task to assess incremental processing in English relative clauses, In *Proceedings of the 43rd annual meeting of the Cognitive Science Society*.

Hu, J., Zaslavsky, N. & Levy, R. (2021). Competition from novel features drives scalar inferences in reference games, In *Proceedings of the 43rd annual meeting of the Cognitive*

Science Society.

Aparicio, H., Chen, C., Levy, R. P. & Coppock, E. (To appear). Granularity in the semantics of comparison, In *Proceedings of the 31st Conference on Semantics and Linguistic Theory*.

Wilcox, E. G., Levy, R. P. & Davidson, K. (To appear). Which presuppositions are subject to contextual felicity constraints? In *Proceedings of the 31st Conference on Semantics and Linguistic Theory*.

Eisape, T., Zaslavsky, N. & Levy, R. P. (2020). Cloze distillation improves psychometric predictive power, In *Proceedings of the 24th Conference on Computational Natural Language Learning (CoNLL)*.

Malmaud, J., Levy, R. P. & Berzak, Y. (2020). Bridging information-seeking human gaze and machine reading comprehension, In *Proceedings of the 24th Conference on Computational Natural Language Learning (CoNLL)*.

Wilcox, E., Qian, P., Futrell, R., Kohita, R., Levy, R. P. & Ballesteros, M. (2020). Structural supervision improves few-shot learning and syntactic generalization in neural language models, In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing*.

Tessler, M. H., Tsvilodub, P., Snedeker, J. & Levy, R. P. (2020). Informational goals, sentence structure, and comparison class inference, In *Proceedings of the 42nd annual meeting of the Cognitive Science Society*.

Hofer, M., Verhoef, T. & Levy, R. P. (2020). Hierarchical generalizations support systematicity inferences in the lexicon, In *Proceedings of the 42nd annual meeting of the Cognitive Science Society*.

Wilcox, E. G., Gauthier, J., Hu, J., Qian, P. & Levy, R. P. (2020). On the predictive power of neural language models for human real-time comprehension behavior, In *Proceedings of the 42nd annual meeting of the Cognitive Science Society*.

Meylan, S., Levy, R. P. & Bergelson, E. (2020). Children's expressive and receptive knowledge of the English regular plural, In *Proceedings of the 42nd annual meeting of the Cognitive Science Society*.

Tenenbaum, A. L., Braginsky, M. & Levy, R. P. (2020). Integrating semantics into developmental models of morphology learning, In *Proceedings of the 42nd annual meeting of the Cognitive Science Society*.

Hu, J., Gauthier, J., Qian, P., Wilcox, E. & Levy, R. P. (2020). A systematic assessment of syntactic generalization in neural language models, In *Proceedings of the 58th annual meeting of the Association for Computational Linguistics*.

Gauthier, J., Hu, J., Wilcox, E., Qian, P. & Levy, R. P. (2020). SyntaxGym: An online platform for targeted evaluation of language models, In *Proceedings of the 58th annual meeting* of the Association for Computational Linguistics.

Berzak, Y., Malmaud, J. & Levy, R. P. (2020). STARC: Structured annotations for reading comprehension, In *Proceedings of the 58th annual meeting of the Association for Computational Linguistics*.

Hu, J., Chen, S. Y. & Levy, R. P. (2020). A closer look at the performance of neural language models on reflexive anaphor licensing, In *Proceedings of the Society for Computation*

in Linguistics (SCiL) 2020.

An, A., Qian, P., Wilcox, E. & Levy, R. P. (2019). Representation of constituents in neural language models: Coordination phrase as a case study, In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing*.

Gauthier, J. & Levy, R. P. (2019). Linking artificial and human neural representations of language, In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing*.

Zhan, M. & Levy, R. P. (2019). Availability-based production predicts speakers' real-time choices of Mandarin classifiers, In *Proceedings of the 41st annual meeting of the Cognitive Science Society*.

Wilcox, E., Levy, R. P. & Futrell, R. (2019b). What syntactic structures block dependencies in RNN language models? In *Proceedings of the 41st annual meeting of the Cognitive Science Society*.

Hofer, M. & Levy, R. P. (2019). Iconicity and structure in the emergence of combinatoriality, In *Proceedings of the 41st annual meeting of the Cognitive Science Society*.

Tessler, M. H., Gu, K. & Levy, R. P. (2019). Incremental understanding of conjunctive generic sentences, In *Proceedings of the 41st annual meeting of the Cognitive Science Society*.

Qian, P., Hewitt, L., Tenenbaum, J. B. & Levy, R. P. (2019). Inferring structured visual concepts from minimal data, In *Proceedings of the 41st annual meeting of the Cognitive Science Society*.

Gauthier, J., Levy, R. P. & Tenenbaum, J. B. (2019). A rational model of syntactic bootstrapping, In *Proceedings of the 41st annual meeting of the Cognitive Science Society*.

Futrell, R., Wilcox, E., Morita, T., Qian, P., Ballesteros, M. & Levy, R. (2019). Neural language models as psycholinguistic subjects: Representations of syntactic state, In *Proceedings of the 18th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*.

Wilcox, E., Qian, P., Futrell, R., Ballesteros, M. & Levy, R. (2019). Structural supervision improves learning of non-local grammatical dependencies, In *Proceedings of the 18th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*.

Futrell, R. & Levy, R. P. (2019). Do RNNs learn human-like abstract word order preferences? In *Proceedings of the Society for Computation in Linguistics (SCiL)* 2019.

Shen, J., Hofer, M., Felbo, B. & Levy, R. (2018). Comparing models of associative meaning: An empirical investigation of reference in simple language games, In *Proceedings of the Twenty-Second Conference on Computational Natural Language Learning (CoNLL)*.

Levy, R. P. (2018). Communicative efficiency, Uniform Information Density, and the Rational Speech Act Theory, In *Proceedings of the 40th annual meeting of the Cognitive Science Society*.

Gauthier, J., Levy, R. P. & Tenenbaum, J. B. (2018). Word learning and the acquisition of syntactic–semantic overhypotheses, In *Proceedings of the 40th annual meeting of the Cognitive Science Society*.

Ivanova, A. & Levy, R. (2018). Pragmatic inference of intended referents from binomial word order, In *Proceedings of the 40th annual meeting of the Cognitive Science Society*.

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Zhan, M. & Levy, R. (2018b). Comparing theories of speaker choice using a model of classifier production in Mandarin Chinese, In *Proceedings of the 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*.

Berzak, Y., Katz, B. & Levy, R. (2018). Assessing language proficiency from eye movements in reading, In *Proceedings of the 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*.

Hofer, M. & Levy, R. (2017). Modeling sources of uncertainty in spoken word learning, In *Proceedings of the 39th annual meeting of the Cognitive Science Society*.

Futrell, R. & Levy, R. (2017). Noisy-context surprisal as a human sentence processing cost model, In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*.

Doyle, G. & Levy, R. (2016). Data-driven learning of symbolic constraints for a log-linear model in a phonological setting, In *Proceedings of the 26th International Conference on Computational Linguistics (COLING)*.

Gutiérrez, E. D., Levy, R. & Bergen, B. (2016). Finding non-arbitrary form-meaning systematicity using string-metric learning for kernel regression [Best Paper Award], In *Proceedings of the 54th annual meeting of the Association for Computational Linguistics*. Best Paper Award.

Zhan, M., Levy, R. & Kehler, A. (2016a). Bayesian pronoun interpretation in Mandarin Chinese, In *Proceedings of the 38th annual meeting of the Cognitive Science Society*.

Poppels, T. & Levy, R. (2016d). Structure-sensitive noise inference: Comprehenders expect exchange errors, In *Proceedings of the 38th annual meeting of the Cognitive Science Society*.

Morgan, E. & Levy, R. (2016c). Frequency-dependent regularization in iterated learning (S. Roberts, C. Cuskley, L. McCrohon, L. Barceló-Coblijn, O. Feher & T. Verhoef, Eds.). In S. Roberts, C. Cuskley, L. McCrohon, L. Barceló-Coblijn, O. Feher & T. Verhoef (Eds.), *The evolution of language: Proceedings of the 11th international conference (EVOLANG11)*.

Poppels, T. & Levy, R. (2015a). Resolving quantity and informativeness implicature in indefinite reference (W. Zuidema & J. Szymanik, Eds.). In W. Zuidema & J. Szymanik (Eds.), *Proceedings of the 2015 Amsterdam Colloquium: The Workshop on Reasoning in Natural Language*.

Morgan, E. & Levy, R. (2015b). Modeling idiosyncratic preferences: How generative knowledge and expression frequency jointly determine language structure, In *Proceedings* of the 37th annual meeting of the Cognitive Science Society.

Potts, C. & Levy, R. (2015). Negotiating lexical uncertainty and speaker expertise with disjunction, In *Proceedings of the 41st annual meeting of the Berkeley Linguistics Society*.

Levy, R., Bergen, L. & Goodman, N. D. (To appear). *Roses and flowers*: An informativeness implicature in probabilistic pragmatics, In *Proceedings of the 24th Conference on Semantics and Linguistic Theory*.

Doyle, G., Bicknell, K. & Levy, R. (2014b). Nonparametric learning of phonological con-

straints in Optimality Theory, In *Proceedings of the 52nd annual meeting of the Association for Computational Linguistics*.

Kao, J., Levy, R. & Goodman, N. (2013). The funny thing about incongruity: A computational model of humor in puns, In *Proceedings of the 35th annual meeting of the Cognitive Science Society*.

Bicknell, K., Higgins, E., Levy, R. & Rayner, K. (2013). Evidence for cognitively controlled saccade targeting in reading, In *Proceedings of the 35th annual meeting of the Cognitive Science Society*.

Meylan, S., Frank, M. C. & Levy, R. (2013). Modeling the development of determiner productivity in children's early speech, In *Proceedings of the 35th annual meeting of the Cognitive Science Society*.

Doyle, G. & Levy, R. (2013). Combining multiple information types in Bayesian word segmentation, In *Proceedings of the 2013 conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*.

Bicknell, K. & Levy, R. (2012c). Word predictability and frequency effects in a rational model of reading, In *Proceedings of the 34th annual meeting of the Cognitive Science Society*, Sapporo, Japan.

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 34th annual meeting 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 34th annual meeting of the Cognitive Science Society*.

Pajak, B., Creel, S. C. & Levy, R. (2012). Can native-language perceptual bias facilitate learning words in a new language? In *Proceedings of the 34th annual meeting of the Cognitive Science Society*.

Pająk, B. & Levy, R. (2012). Distributional learning of L2 phonological categories by listeners with different language backgrounds (A. Biller, E. Chung & A. Kimball, Eds.). In A. Biller, E. Chung & A. Kimball (Eds.), *Proceedings of the 36th Boston University conference on language development*, Somerville, MA: Cascadilla Press.

Park, Y. A. & Levy, R. (2011). Automated whole sentence grammar correction using a noisy channel model, In *Proceedings of the 49th annual meeting of the Association for Computational Linguistics: Human Language Technologies*.

Levy, R. (2011a). Integrating surprisal and uncertain-input models in online sentence comprehension: Formal techniques and empirical results, In *Proceedings of the 49th annual meeting of the Association for Computational Linguistics: Human Language Technologies*.

Pająk, B. & Levy, R. (2011). Phonological generalization from distributional evidence, In *Proceedings of the 33rd annual meeting of the Cognitive Science Society*, Austin, TX, Cognitive Science Society.

Smith, N. J. & Levy, R. (2011). Cloze but no cigar: The complex relationship between cloze, corpus, and subjective probabilities in language processing, In *Proceedings of the 33rd annual meeting of the Cognitive Science Society*.

- Rasiwasia, N., Pereira, J. M. C., Coviello, E., Doyle, G., Lanckriet, G. R. G., Levy, R. & Vasconcelos, N. (2010). A new approach to cross-modal multimedia retrieval, In *Proceedings* of the ACM international conference on multimedia. Best student paper award.
- Bicknell, K. & Levy, R. (2010c). A rational model of eye movement control in reading, In Proceedings of the 48th annual meeting of the Association for Computational Linguistics, Uppsala, Sweden.
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- Smith, N. J. & Levy, R. (2010). Fixation durations in first-pass reading reflect uncertainty about word identity, In *Proceedings of the 32nd annual meeting of the Cognitive Science Society*.
- Smith, N. J., Chan, W.-H. & Levy, R. (2010). Is perceptual acuity asymmetric in isolated word recognition? Evidence from an ideal-observer reverse-engineering approach, In *Proceedings of the 32nd annual meeting of the Cognitive Science Society.*
- Colavin, R., Levy, R. & Rose, S. (2010). Modeling OCP-Place with the Maximum Entropy Phonotactic Learner, In *Proceedings of the Chicago Linguistic Society*.
- Levy, R., Reali, F. & Griffiths, T. L. (2009). Modeling the effects of memory on human online sentence processing with particle filters, In Proceedings of the 22nd conference on *Neural Information Processing Systems (NIPS).*
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- Park, Y. A. & Levy, R. (2009). Minimal-length linearizations for mildly context-sensitive dependency trees, In Proceedings of the 10th annual meeting of the North American chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT) conference, Boulder, Colorado, USA.
- Bicknell, K., Levy, R. & Demberg, V. (2009). Correcting the incorrect: Local coherence effects modeled with prior belief update, In Proceedings of the 35th annual meeting of the *Berkeley Linguistics Society.*
- Levy, R. (2008c). A noisy-channel model of rational human sentence comprehension under uncertain input, In Proceedings of the 13th conference on Empirical Methods in Natural Language Processing, Waikiki, Honolulu.
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- Smith, N. J. & Levy, R. (2008a). Optimal processing times in reading: A formal model and empirical investigation, In Proceedings of the 30th annual meeting of the Cognitive Science Society, Washington, DC.
- Levy, R. & Jaeger, T. F. (2007). Speakers optimize information density through syntactic reduction, In Proceedings of the 20th conference on Neural Information Processing Systems (NIPS).

- Levy, R. & Andrew, G. (2006). Tregex and Tsurgeon: Tools for querying and manipulating tree data structures, In Proceedings of the 2006 conference on Language Resources and Evaluation.
- Levy, R. & Manning, C. (2004). Deep dependencies from context-free statistical parsers: Correcting the surface dependency approximation, In Proceedings of the 42nd annual meeting of the Association for Computational Linguistics.
- Levy, R. & Manning, C. (2003). Is it harder to parse Chinese, or the Chinese Treebank? In Proceedings of the 41st annual meeting of the Association for Computational Linguistics.
- Levy, R. & Oshima, D. (2003). Non-transitive information flow in Japanese noun-classifier matching (S. Müller, Ed.) [Available online at http://cslipublications.stanford.edu/ HPSG/4/]. In S. Müller (Ed.), Proceedings of the 10th international conference on Head-Driven *Phrase Structure Grammar*, CSLI Publications. Available online at http://cslipublications. stanford.edu/HPSG/4/.
- Thompson, C., Levy, R. & Manning, C. (2003). A generative model for FrameNet semantic role labeling, In *Proceedings of the 14th European Conference on Machine Learning*.
- Levy, R. & Pollard, C. (2001). Coordination and neutralization in HPSG (F. V. Eynde, L. Hellan & D. Beermann, Eds.) [Available online at http://csli-publications.stanford.edu/ HPSG/2/]. In F. V. Eynde, L. Hellan & D. Beermann (Eds.), Proceedings of the 8th international conference on Head-Driven Phrase Structure Grammar, CSLI Publications. Available online at http://csli-publications.stanford.edu/HPSG/2/.

REFEREED WORKSHOP PROCEEDINGS PAPERS

Thrush, T., Wilcox, E. G. & Levy, R. P. (2020). Investigating novel verb learning in BERT: Selectional preference classes and alternation-based syntactic generalization, In Proceedings of the third BlackboxNLP workshop on analyzing and interpreting neural networks for NLP. Eisape, T., Levy, R. P., Tenenbaum, J. B. & Zaslavsky, N. (2020). Toward human-like object naming in artificial neural systems, In Proceedings of the ICLR workshop on bridging AI and cognitive science (BAICS).

Wilcox, E., Levy, R. P. & Futrell, R. (2019a). Hierarchical representation in neural language models: Suppression and recovery of expectations, In *Proceedings of the second Black*boxNLP workshop.

Gillani, N. & Levy, R. (2019). Simple dynamic word embeddings to map perceptions in the public sphere, In Proceedings of the Third Workshop on Natural Language Processing and Computational Social Science.

Wilcox, E., Levy, R. P., Morita, T. & Futrell, R. (2018). What do RNN language models learn about filler-gap dependencies? In Proceedings of the workshop on analyzing and interpreting neural networks for NLP.

Pająk, B., Bicknell, K. & Levy, R. (2013c). A model of generalization in distributional learning of phonetic categories, In Proceedings of the 4th annual workshop on Cognitive Modeling and Computational Linguistics.

Fossum, V. & Levy, R. (2012). Sequential vs. hierarchical syntactic models of human incremental sentence processing, In Proceedings of the 3rd annual workshop on Cognitive Modeling and Computational Linguistics, Montreal, Quebec.

Bicknell, K. & Levy, R. (2012b). Why long words take longer to read: The role of uncertainty about word length, In *Proceedings of the 3rd annual workshop on Cognitive Modeling and Computational Linguistics*.

West, R., Park, Y. A. & Levy, R. (2011). Bilingual random walk models for automated grammar correction of ESL author-produced text, In *Proceedings of the workshop on Innovative Use of NLP for Building Educational Applications*.

Lev, I., MacCartney, B., Manning, C. & Levy, R. (2004). Solving logic puzzles: From robust processing to precise semantics, In *Proceedings of the 2nd workshop on Text Meaning and Interpretation*.

BOOK CHAPTERS

Wasow, T., Levy, R., Melnick, R., Zhu, H. & Juzek, T. (2015). Processing, prosody, and optional to. In L. Frazier & E. Gibson (Eds.), *Explicit and implicit prosody in sentence processing* (pp. 133–158). Springer.

Levy, R. (2013). Memory and surprisal in human sentence comprehension. In R. P. G. van Gompel (Ed.), *Sentence processing* (pp. 78–114). Hove: Psychology Press.

Aoki, K., Satoh, D. & Levy, R. (2002). Theoretical aspects of brother–sister mating in birds and mammals. In K. Aoki & T. Akazawa (Eds.), *Human mate choice and prehistoric marital networks* (pp. 5–15). Nichibunken, Kyoto.

TECHNICAL REPORTS

Rambow, O., Chiang, D., Diab, M., Habash, N., Hwa, R., Sima'an, K., Lacey, V., Levy, R., Nichols, C. & Shareef, S. (2006). *Parsing Arabic dialects* (tech. rep.). Johns Hopkins University.

OTHER PUBLICATIONS

Zaslavsky, N., Hu, J. & Levy, R. P. (2020, May 13). A rate-distortion view of human pragmatic reasoning.

Futrell, R., Levy, R. & Dryer, M. (2017). A statistical comparison of some theories of NP word order.

Levy, R. (2014, May 12). Using R formulae to test for main effects in the presence of higher-order interactions.

Levy, R. (2011b). Probabilistic linguistic expectations, uncertain input, and implications for eye movements in reading. *Studies of Psychology and Behavior*, *9*(1), 52–63.

THESES

2005. Roger Levy. "Probabilistic Models of Word Order and Syntactic Discontinuity". Ph.D. Thesis, Stanford University.

1999. Roger Levy. "Evolution of Inbreeding Avoidance." Master's Thesis, Stanford University. (Degree awarded 2002.)

MANUSCRIPTS

2002. Roger Levy. "Parallelism and Weight Effects in English Coordinate Noun Phrases and Daughter Annotation of PCFGs." Manuscript, Stanford University.

2001. Roger Levy. "Feature Indeterminacy and the Coordination of Unlikes in a Totally Well-Typed HPSG." Manuscript, Stanford University. Available online at http://idiom.ucsd.edu/~rlevy/papers/feature-indet.ps

FUNDING – EXTRAMURAL

2021–2024. Roger Levy (PI), Edward Gibson (Co-PI). Noisy-channel processing in human language understanding. National Science Foundation (BCS-2121074).

2021–2023. Roger Levy (PI). Developing a scalable theory of alternatives in pragmatics. National Science Foundation Doctoral Dissertation Research Improvement award (BCS-2116918) for PhD candidate Jennifer Hu.

2021–2026. Evelina Fedorenko, Mark Richardson, Nancy Kanwisher, Ziv Williams, Roger Levy, Sydney Cash, Noga Zaslavsky, Alan Bush, Angelique Paulk. NIH U01 "Computational neuroscience of language processing in the human brain".

2019–2021. Roger Levy (PI). Extending and testing theories of language production by investigating speaker choice in a classifier language. National Science Foundation Doctoral Dissertation Research Improvement award (BCS-1844723) for PhD candidate Meilin Zhan.

2018–2021. Roger Levy (PI). Computational analysis of eye movements in reading: reader characteristics, cognitive state, and natural language processing. National Science Foundation (IIS-1815529).

2019–2020. Roger Levy and Joshua Tenenbaum (PIs). Grounded, grammar-based language learning. Google Faculty Research Award.

2016–2020. Roger Levy (PI). *The edge of the lexicon: Productive knowledge and direct experience* in the acquisition and processing of multiword expressions. National Science Foundation (BCS-1551866).

2015–2018 (extended through 2019). Roger Levy (PI). Broad-coverage probabilistic models of communication in context. National Science Foundation (BCS-1456081; collaborative research award with Michael C. Frank and Christopher Potts, Stanford).

2012–2014 (extended through 2016). Alfred P. Sloan Foundation Fellowship.

2010–2015 (extended through 2016). Roger Levy (PI) and Keith Rayner. Linguistic Processes in Sentence Comprehension and Reading. National Institute of Child Health & Human Development (NIH 1R01HD065829-01).

2010–2015 (extended through 2016). Roger Levy (PI). Rational Language Processing with Uncertain and Noisy Input. National Science Foundation CAREER (CISE/IIS-0953870, cofunded by SBE/BCS).

FUNDING – INTRAMURAL (MIT)

2021-. Jacob Andreas, Regina Barzilay, James Glass, Tommi Jaakkola, Roger Levy (MIT investigators). MIT-IBM Signature Project on Low-Resource Language Learning.

2021–2022. Jacob Andreas, Roger Levy, Evelina Fedorenko, Athulya Aravind. Pilot funding, MIT Quest for Intelligence, Semantics for Language.

2020–2021. Roger Levy (MIT PI) and Ramón Astudillo (IBM PI). Extending and testing hybrid neuro-symbolic architectures with neural control for natural language. Exploratory project for MIT–IBM Watson AI Laboratory.

2018–2019. Roger Levy (MIT PI) and Miguel Ballesteros (IBM PI). Hierarchically structured symbolic architectures with neural control for robust and human-like natural language parsing. Exploratory project for MIT–IBM Watson AI Laboratory.

2018–2020. Roger Levy (PI). MEG decoding of representations and computations in real-time language comprehension. Paul E. and Lilah Newton Brain Science Award.

FUNDING – INTRAMURAL (UCSD)

2015–2016. Roger Levy (PI). Resolving Quantity and Informativity in Language Understanding. Academic Senate Research Grant.

2015–2016. Eric Halgren, Victor Ferreira, Vikash Gilja, Shadi Dayeh, and Roger Levy (co-PIs). The neural basis of syntax. Chancellor's Interdisciplinary Collaboratories program grant.

2011–2012. Roger Levy (PI). The acquisition of phonological categories as hierarchical inductive inference. Academic Senate Research Grant.

2011–2012. Roger Levy, Keith Rayner and Nuno Vasconcelos (co-PIs). How language and visual saliency jointly guide eye movements in the perception of complex scenes. Chancellor's Interdisciplinary Collaboratories program grant.

2010–2011. Roger Levy (PI). Using serial reproduction to investigate human language comprehension. Hellman Fellowship.

2010. Roger Levy (PI). Error identification and hallucinated garden paths in language comprehension. Academic Senate Research Grant.

2009. Roger Levy (PI). The deployment of probabilistic knowledge in online sentence comprehension. Academic Senate Research Grant.

INVITED PRESENTATIONS

2021.Title TBD. Invited lecture, Leipzig Lectures on Language, 21 July 2021.

2021. Title "Grammatical generalization and language processing in humans and machines". Invited talk, Collège de France Colloquium The representation of language in brains and machines, 24–25 June 2021.

2021. "Semantics, Pragmatics, and Context in Grounded Human Language Understanding". Invited talk, 4th Visually Grounded Interaction and Language (ViGIL) Workshop, NAACL-HLT Conference, 10 June 2021.

- 2021. "Information Density, Availability, and Theories of Speaker Choice in a Classifier Language". Linguistics Department Colloquium, University of Chicago, 25 February 2021.
- **2020.** "Grammatical generalization in neural language models: insights for theory of human language acquisition and processing". Invited talk, Research Seminar of the Linguistics Department of the University of Geneva, 8 December 2020.
- 2020. "Evaluating and calibrating neural language models for human-like language processing." Invited talk, third BlackboxNLP workshop, 20 November 2020.
- **2020–2021.** "Computational models of language processing in humans and machines."

Machine Learning Research Group, Oracle Labs, 19 August 2020.

Computer Science Departmental Colloquium, Worcester Polytechnic Institute, 16 April 2021.

- **2019.** "The learnability of syntactic generalizations from linguistic input: insights from deep learning". Center for Research in Language, UC San Diego, 12 November 2019.
- **2019.** "Implicit gender bias in preferred linguistic descriptions for expected events: the US and UK elections and beyond."

Opportunity Insights Lunch Series, Harvard University, 16 October 2019. Cognitive Psychology Brownbag talk, UC San Diego, 15 November 2019.

- 2019. "Context representation and expectation-based human language processing". Keynote talk, Information Structure and Ambiguity: The Process of Integrating Sentences into Discourse, University of Tübingen, 7–8 October 2019.
- 2019. "Expectation-based Language Processing in Minds and Machines". Keynote talk, Workshop on Computational Cognition, Institute of Cognitive Science, University of Osnabrück, 1–2 October 2019.
- 2019. "Neural language models as psycholinguistic subjects: syntactic state and grammatical dependency." School of Informatics, University of Edinburgh, 25 March 2019.
- 2019. "Information-theoretic optimization in human language comprehension and production." Keynote talk, Inaugural Colloquium SFB, Saarland University, 18 Feb 2019.
- **2018.** "Expectation-based syntactic processing in humans and machines." University of Washington Natural Language Processing group colloquium, 27 Nov 2018.
- 2018. "The noisy-channel theory of human language comprehension." Colloquium given at Potsdam University, Department of Linguistics, 15 October 2018.
- 2018. "Probabilistic models of language comprehension and production." Colloquium given for the Indian Institute of Science Education and Research (IISER), Bhopal, 21 August 2018.
- **2018.** "Gender bias in preferred linguistic descriptions for expected events".

Conference on Quantitative Approaches to Language Science, UC Irvine, 4–5 May 2018. Department of Cognitive Sciences, Ecole Normale SupA@rieure, 4 October 2018.

Cognition, Brain, & Behavior seminar, Psychology Dept., Harvard University, 25 Oct 2018.

2017. "Statistical inference by and about the child learner in the emergence of syntactic productivity". Society for Language Development, Annual Symposium: Formal models of statistical inference. Boston University, 2 November 2017.

2017. "Explicit belief and implicit expectations in language production and comprehension". Colloquium given at:

CSLI Workshop on Bridging computational and psycholinguistic approaches to the study of meaning, Stanford University, 17 February 2017.

Institute of Cognitive Science, Université du Québec à Montréal, 7 April 2017.

2016–2017. "Life at the edge of the lexicon: Productive knowledge and direct experience in language processing and acquisition". Colloquium given at:

Cornell Linguistics Circle Colloquium, 22 September 2016.

Institute of Cognitive Science, Université du Québec à Montréal, 7 April 2017.

Cognitive Science Colloquium, University of Maryland, 5 October 2017.

2016. "Probabilistic models of human language comprehension." Colloquium given at:

Cognitive Brownbag, University of Massachusetts, Amherst, 19 October 2016.

Cognitive Science Colloquium, University at Buffalo, 21 September 2016.

Computational Linguistics Colloquium, Brandeis University, 13 October 2017.

2016. "Negation in probabilistic models of language comprehension: structure, expectations, and pragmatics." Workshop on Negation, University of Geneva, 27 May 2016.

2015. "Bayesian pragmatics: Lexical uncertainty, compositionality, and the typology of conversational implicature". Colloquium given at:

Natural Language Processing Colloquium, Penn State University, 2 December 2016.

Department of Linguistics, Cornell University, 23 September 2016.

Department of Linguistics, MIT, 23 September 2015.

Linguistics Program, Princeton University, 17 September 2015.

Google, 14 May 2015.

Department of Linguistics, University of Rochester, 8 May 2015.

2015. "Probabilistic models of human language comprehension". University of Edinburgh Department of Informatics Colloquium, 29 May 2015.

2015. "Modeling the continuum of hypotheses spanning from nativism to empiricism". Invited talk, Workshop on *Perspectives on Nativism*, University of Edinburgh, 21–22 May 2015.

2015. "Comprehenders as reverse engineers." Colloquium given at the Department of Brain & Cognitive Sciences, University of Rochester, 6 May 2015.

2015. "Probabilistic models of language comprehension, production, and acquisition". Special Seminar, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, 3 April 2015.

2015. "Not when—but how, and what?" Invited Speaker, CUNY Sentence Processing Conference, special session on Exploring the (un)expected: The role of informativity in language production and comprehension, 20 March 2015.

2015. "Expectation-based human language processing and understanding." Departments of Linguistics and Psychology, UC Berkeley, 11 March 2015.

2015. "Probabilistic models of human language comprehension and production." Cognitive Science Colloquium, Tufts University, 4 February 2015.

- **2015.** "Is grammatical knowledge probabilistic? Theory and evidence". Colloquium given at the Psycholinguistics Group Meeting, Stanford University, 29 January 2015.
- **2015.** "Expectation-based language comprehension and production". Psychology Department Colloquium, Stanford University, 28 January 2015.
- **2014.** "Noisy-channel human sentence comprehension". Invited talk given at the Workshop on The Continuous and the Discrete in Sentence Processing, 14–15 November 2014, Johns Hopkins University.
- **2014.** "Probabilistic models of human language comprehension, production, and acquisition." Cognitive Science/Computer Science Colloquium, Johns Hopkins University, 23 September 2014.
- **2014.** "Compositionality in probabilistic semantics and pragmatics: Bayesian *and* and *or*". UC San Diego Department of Cognitive Science Colloquium, 6 October 2014.
- **2014.** "The Bayesian pragmatics of *and* and *or*". Invited talk given 11 August 2014, at the Formal and Experimental Pragmatics Workshop, European Summer School in Logic, Language, and Information (ESSLLI), Tübingen, Germany.
- **2014.** "Exemplars, rule-based generalization, and gradient grammatical knowledge in syntactic processing and acquisition". Talk given at the Workshop on Gradience in Grammar, Center for the Study of Language and Information, Stanford University, 17–18 January 2014.
- **2013–2014.** "Probabilistic knowledge in human language comprehension and production". Colloquium presented at:

Department of Linguistics, UC Santa Barbara, 3 October 2013.

Department of Linguistics, University of Arizona, 24 January 2014.

- **2013.** "The ecology of the binomial construction: processing, pragmatics, and efficiency." Colloquium given at the Stanford Linguistics Department, 8 November 2013.
- **2013.** "Probabilistic Knowledge and Uncertain Input in Human Sentence Processing." Keynote Talk at the Seventeenth Conference on Natural Language Learning (CoNLL), 8–9 August 2013, Sofia, Bulgaria.
- **2013.** "The internal structure of coordinate categories." Presented at *Structure and Evidence in Linguistics*, 28-30 April 2013, Stanford, CA, in honor of Ivan A. Sag.
- **2012–13.** "Probability and a Quantitative Science of Language." Presented at:

Mayfest: *The Role of Computational Models in Linguistic Theory*, University of Maryland, 4–5 May 2012.

Department of Computational Linguistics and Phonetics, Saarland University, 13 May 2013.

- **2012.** "Probabilistic Knowledge and Locality in Syntactic Comprehension." Department of Linguistics, University of California at Santa Cruz, 12 October 2012.
- **2010–2011.** "Probabilistic Knowledge and Uncertain Input in Rational Human Sentence Comprehension." Presented at:

Plenary lecture series, Center for Language and Speech Processing, Johns Hopkins University, 30 June 2010

Computational Linguistics & Information Processing lecture series, Institute for Advanced Computer Studies, University of Maryland – College Park, 15 September 2010

Department of Cognitive Sciences, UC Irvine, 11 October 2010

Mind, Technology, & Society Lecture Series, UC Merced, 7 February 2011

Department of Linguistics, University of Massachussetts at Amherst, 16 September 2011

Institute for Research in Cognitive Science, University of Pennsylvania, 30 September 2011

Department of Cognitive, Linguistic, and Psychological Sciences, Brown University, 6 October 2011

Department of Linguistics, New York University, 21 October 2011

2010. "Probabilistic linguistic expectations, uncertain input, and implications for eye movements in reading." Keynote speaker at the 4th China International Conference on Eye Movements, 24–26 May 2010, Tianjin Normal University, Tianjin, China.

2009–2010. "The Processing of Extraposed Structures in English." Presented at:

Department of Linguistics, UC Berkeley, 5 April 2010

Department of Linguistics, UC San Diego, 12 October 2009

2009–2010. "Uncertain input in rational human sentence comprehension." Presented at:

Stanford Psychology of Language Tea (SPLaT), Stanford University, 1 April 2010

Institute for Cognitive and Brain Sciences, UC Berkeley, 28 August 2009

Dalle Molle Institute for Artificial Intelligence, Lugano, Switzerland, 17 July 2009

2008–2009. "Noise and memory in rational human sentence comprehension." Presented

Department of Psychology, New York University, 18 May 2009

Department of Linguistics, University of Southern California, 13 April 2009

Department of Psychology, California State University – Long Beach, 11 March 2009

Natural Language Processing Group, Information Sciences Institute, 23 January 2009

Department of Linguistics, Northwestern University, 5 December 2008

2007–2008. "Probabilistic knowledge in human language comprehension and production." Presented at:

Department of Linguistics, UCLA, 11 February 2008

Department of Linguistics, Stanford University, 6 February 2008

Department of Brain & Cognitive Sciences, MIT, 4 February 2008

Department of Linguistics, Cornell University, 28 January 2008

IEEE Computational Intelligence Society, San Diego Chapter, 13 June 2007

2007. "Speakers optimize information density through syntactic reduction." Invited speaker, Computational Linguistics Colloquium, University of Potsdam, 13 December 2007.

2007. "Modeling transactions in uncertainty in the online processing of verb-final structures." Invited workshop presentation, Theoretical approaches to the processing of verb-final

constructions workshop, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, 7–9 December 2007.

2007. "New Frontiers Opened by the Gradient View of Grammatical Knowledge." Keynote address, *Eleventh meeting of the Texas Linguistic Society*, 9–10 November 2007.

2007. "Expectations, locality, and competition in human sentence comprehension." Department of Brain & Cognitive Sciences, University of Rochester, April 18, 2007.

2006. "Information-density optimization in natural language grammars." Presented at Language Evolution & Computation group meeting, University of Edinburgh, July 28, 2006.

2005–2006. "Expectation-based syntactic comprehension." Presented at:

Human Communication Research Centre, University of Edinburgh, Oct. 21, 2005

Dept. of Computational Linguistics and Phonetics, Saarland University, Dec. 1, 2005

Research Centre for English and Applied Linguistics, Cambridge University, Jan. 24, 2006

Department of Psychology, University of Glasgow, Feb. 17, 2006

Department of Psychology, University of Dundee, Mar. 9, 2006

Department of Brain and Cognitive Science, MIT, Oct. 6, 2006

2005. "Expectation-based syntactic processing, information theory, and German word order." Presented at:

Department of Linguistics, University of Ottawa, January 17, 2005

Department of Linguistics, University at Buffalo, February 8, 2005

Department of Linguistics, UC San Diego, February 14, 2005

Department of Linguistics, Ohio State University, February 18, 2005

Cognitive Science Program, Indiana University, February 21, 2005

Department of Linguistics, University of Texas – Austin, February 25, 2005

Department of Linguistics, University of Washington, March 12, 2005

2004. "Deep dependencies from context-free statistical parsers." Presented at:

Knowledge Systems Area group, Palo Alto Research Center, March 22, 2005 School of Informatics, University of Edinburgh, August 23, 2004

2004. "Predicate-argument structure from broad-coverage parse trees." Presented at the Institute of Cognitive Science, University of Colorado, Boulder, March 12, 2004.

2004. "The Statistical Distribution of English Coordinate Noun Phrases." Presented at:

Department of Linguistics, Indiana University, February 22, 2005

Department of Linguistics, University of Colorado, Boulder, March 11, 2004

PEER-REVIEWED PRESENTATIONS WITHOUT CONFERENCE PROCEEDINGS (Published Abstracts only)

Zhan, M. & Levy, R. (2018c). Comparing theories of speaker choice using a model of classifier production in Mandarin Chinese [Marr Prize for Best Student Paper].

Zhan, M. & Levy, R. (2018a). Availability-based production, not Uniform Information Density, predicts Mandarin classifier choice.

Boyce, V., von der Malsburg, T., Poppels, T. & Levy, R. (2018). Implicit gender biases in the production and comprehension of pronominal references.

Aparicio, H. & Levy, R. (2018). Counting exceptions: Exception phrases and quantification.

Futrell, R., Gibson, E. & Levy, R. (2018). Generalizing dependency length minimization: Crosslinguistic corpus evidence for information locality.

von der Malsburg, T., Poppels, T. & Levy, R. (2017b). The president will give her inauguration speech: Explicit belief and implicit expectations in language production and comprehension.

Sheng, Y., Wu, F. & Levy, R. (2017). Positioning of determiner phrase affects mandarin relatives processing.

von der Malsburg, T., Poppels, T. & Levy, R. (2017a). The president gave her inauguration speech: Explicit belief and implicit expectations in language production and comprehension.

Zhan, M., Levy, R. & Kehler, A. (2017). Testing a Bayesian pronoun interpretation model with Chinese ba and bei.

Wittenberg, E., Barner, D. & Levy, R. (2016b). The roles of presupposition accommodation and syntax in computing adjectival scalar thresholds.

Zhan, M., Levy, R. & Kehler, A. (2016b). Bayesian pronoun interpretation in Mandarin Chinese.

Zhan, M., Levy, R. & Kehler, A. (2016c). Bayesian pronoun interpretation in Mandarin Chinese.

Myslín, M., Levy, R. & Kehler, A. (2016). Comprehenders infer influences of discourse intent and speaker knowledge state on linguistic form.

Myslín, M., Morgan, E. & Levy, R. (2016). Comprehenders reason about competing causal sources of binomial ordering.

Zhan, M., Levy, R. & Kehler, A. (2016d). Bayesian pronoun interpretation in Mandarin Chinese.

Morgan, E. & Levy, R. (2016b). Frequency-(in)dependent regularization in language production and cultural transmission.

Poppels, T. & Levy, R. (2016a). Resolving quantity and informativeness implicature in indefinite reference.

Wittenberg, E., Barner, D. & Levy, R. (2016a). Inferring individuals' scalar thresholds: What counts as tall for you?

Morgan, E. & Levy, R. (2016d). Productive knowledge and item-specific experience trade off gradiently and rationally.

Wittenberg, E. & Levy, R. (2016). If you want a quick hug, make it count: How grammar affects estimated event durations.

Poppels, T. & Levy, R. (2016b). Resolving quantity and informativeness implicature in indefinite reference.

Poppels, T. & Levy, R. (2016c). Structure-sensitive noise inference: Comprehenders expect

exchange errors.

Wittenberg, E. & Levy, R. (2015). If you want a quick hug, make it count: How grammar affects estimated event durations.

Poppels, T. & Levy, R. (2015b). Resolving quantity and informativeness implicature in indefinite reference.

Bushong, W., Morgan, E., Yen, M. & Levy, R. (2015). Holistic and compositional representations in multiword expressions.

von der Malsburg, T., Vasishth, S. & Levy, R. (2015). The impact of reading modality on sentence comprehension.

Morgan, E. & Levy, R. (2015c). Productive knowledge and direct experience trade off gradiently and rationally in processing binomial expressions.

Morgan, E. & Levy, R. (2015a). Generative and item-specific knowledge jointly determine language structure.

Poppels, T. & Levy, R. (2015d). Structure-sensitive noise inference: Comprehenders expect exchange errors.

Poppels, T. & Levy, R. (2015c). Resolving quantity and informativeness implicature in indefinite reference.

Muhlstein, L., Potts, C., Frank, M. C. & Levy, R. (2015). Pragmatic coordination on context via definite reference.

von der Malsburg, T., Vasishth, S., Metzner, P. & Levy, R. (2015). How presentation modality influences reading comprehension.

Myslín, M. & Levy, R. (2015b). Comprehenders infer interaction between meaning intent and grammatical probability.

Levy, R. (2015). Grammatical knowledge is fundamentally probabilistic.

Myslín, M. & Levy, R. (2015c). Comprehenders infer interaction between meaning intent and grammatical probability.

Levy, R. & Potts, C. (2015). Communicating in language, and about language, using disjunction.

Doyle, G., Bicknell, K. & Levy, R. (2014a). Learning constraint violations directly from data: An emergentist model of phonology.

Pajak, B., Piccinini, P. & Levy, R. (2014). A model of generalization in distributional learning of phonetic categories.

Pająk, B., Bicknell, K. & Levy, R. (2013b). A computational model of generalization in phonetic category learning.

Levy, R., Bergen, L. & Goodman, N. D. (2013). Roses and flowers: An informativeness implicature in probabilistic pragmatics [Presented at the ESSLLI 2013 Workshop on Bayesian Natural Language Semantics and Pragmatics, 5–9 August 2013, Düsseldorf, Germany].

Pajak, B., Bicknell, K. & Levy, R. (2013a). A computational model of generalization in distributional learning: The role of phonetic variability across segment classes.

Morgan, E. & Levy, R. (2013). Direct experience versus abstract knowledge in linguistic processing.

- **2013.** Klinton Bicknell and Roger Levy. "A rational account of regressions in syntactically complex sentences". Poster presentation given at the 2013 CUNY Sentence Processing conference, University of South Carolina, 21–23 March 2013.
- **2013.** Mark Myslín and Roger Levy. "Expectation adaptation for clustering of syntactic structures". Poster presentation given at the 2013 CUNY Sentence Processing conference, University of South Carolina, 21–23 March 2013.
- **2013.** Bożena Pająk and Roger Levy. "Distributional learning of non-native phonetic categories: the role of talker variability." Oral presentation, Annual Meeting of the Linguistic Society of America, 3–6 January 2013, Boston, MA.
- **2013.** Mark Myslín and Roger Levy. "Codeswitching and predictability of meaning in discourse." Poster presentation, Annual Meeting of the Linguistic Society of America, 3–6 January 2013, Boston, MA.
- **2012.** Mark Myslín and Roger Levy. "Information Density in Multilingual Codeswitching". DGfS Workshop on Information Density & Linguistic Variation, Frankfurt am Main, Germany, 6–9 March 2012; and the 2012 Cognition and Language Workshop (CLaW), 14 April 2012, UC Santa Barbara.
- **2012.** Thomas Wasow, Rebecca Green, and Roger Levy. "Optional *to* and Prosody". Poster presentation at the 2012 CUNY Sentence Processing conference, CUNY, 14–16 March 2012.
- **2012.** Klinton Bicknell and Roger Levy. "Effects of frequency, predictability, & length in a rational model of eye movements in reading". Poster presentation at the 2012 CUNY Sentence Processing conference, CUNY, 14–16 March 2012.
- **2012.** Leon Bergen, Roger Levy, and Edward Gibson. "Verb Omission Errors: Evidence of Rational Noisy-channel Language Processing". Poster presentation at the 2012 CUNY Sentence Processing conference, CUNY, 14–16 March 2012.
- **2012.** Elizabeth Schotter, Klinton Bicknell, Roger Levy, and Keith Rayner. "The effects of task on frequency and predictability effects." Poster presentation at the 2012 CUNY Sentence Processing conference, CUNY, 14–16 March 2012.
- **2012.** Rebecca Colavin, Sharon Rose, and Roger Levy. "Under-representation and word-acceptability in Amharic: evidence from a judgment task". Oral presentation at the Organized Session on An Introduction to Ethiosemitic Languages: Data and Theory, 86th Annual Meeting of the Linguistic Society of America, 5–8 January 2012, Portland, Oregon.
- **2012.** Bożena Pająk, Sarah C. Creel, and Roger Levy. "Adults take advantage of fine phonetic detail when learning words in a novel language". Oral presentation at the 86th Annual Meeting of the Linguistic Society of America, 5–8 January 2012, Portland, Oregon.
- Levy, R., Fedorenko, E., Breen, M. & Gibson, E. (2011). Input uncertainty and cue redundancy in syntactic comprehension and adaptation.
- **2011.** Roger Levy and Klinton Bicknell. "A rational model of eye-movement control in reading." Oral presentation at the 16th European Conference on Eye Movements, 21–25 August 2011.

- **2011.** Klinton Bicknell and Roger Levy. "Between-word regressive saccades to and from words of low predictability." Oral presentation at the 16th European Conference on Eye Movements, 21–25 August 2011.
- 2011. Klinton Bicknell and Roger Levy. "Empirical Benchmarks for a rational model of eye movement control in reading." 44th Annual Meeting of the Society for Mathematical Psychology, 16–18 July 2011.
- 2011. Emily Morgan, Roger Levy, Klinton Bicknell, Timothy Slattery and Keith Rayner. "Word Re-recognition Occurs During Second Pass Reading: Evidence from Eye-movements." Poster presentation given at the 2011 CUNY Sentence Processing conference, Stanford University, 24–26 March 2011.
- 2011. Vera Demberg, Frank Keller, and Roger Levy. "Explaining the Relative Clause Asymmetry." Poster presentation given at the 2011 CUNY Sentence Processing conference, Stanford University, 24–26 March 2011.
- 2011. Klinton Bicknell and Roger Levy. "Between-word regressions from words of low predictability and frequency." Poster presentation given at the 2011 CUNY Sentence Processing conference, Stanford University, 24–26 March 2011.
- **2011.** Nathaniel Smith and Roger Levy. "Comparing cloze versus corpus probabilities in self-paced reading." Poster presentation given at the 2011 CUNY Sentence Processing conference, Stanford University, 24–26 March 2011.
- 2011. Gabriel Doyle and Roger Levy. "A log-linear model of language acquisition with multiple cues." Oral presentation at the 85th Annual Meeting of the Linguistic Society of America, Pittsburgh, PA, 6–9 January 2011.
- Bicknell, K. & Levy, R. (2010a). Between-word regressions as part of rational reading. Jaeger, T. F., Levy, R. & Ferreira, V. (2010). Context-sensitive information density affects
- syntactic production (even in the lab).
- **2010.** Roger Levy. "On hallucinated garden paths." Poster presentation given at the 2010 CUNY Sentence Processing conference, New York City, 18–20 March 2010.
- 2010. Nathaniel Smith and Roger Levy. "Fixation durations in first-pass reading reflect uncertainty about word identity." Poster presentation given at the 2010 CUNY Sentence Processing conference, New York City, 18–20 March 2010.
- **2010.** Nathaniel Smith and Roger Levy. "Bias in the Cloze task." Poster presentation given at the 2010 CUNY Sentence Processing conference, New York City, 18–20 March 2010.
- **2010.** Gabriel Doyle and Roger Levy. "A puzzle regarding relative pronoun choice: when frequency and difficulty disagree." Poster presentation given at the 2010 CUNY Sentence Processing conference, New York City, 18–20 March 2010.
- 2010. Rebecca Colavin, Roger Levy, and Sharon Rose. "Modeling OCP-Place with the Maximum Entropy Phonotactic Learner." Presented at the 2010 Computational Modelling of Sound Pattern Acquisition Workshop, University of Alberta, 13–14 February 2010.
- **2010.** Roger Levy. "On hallucinated garden paths." Paper presented at the 2010 annual meeting of the Linguistic Society of America, Baltimore, MD, 7–10 January 2010.

- **2010.** Klinton Bicknell and Roger Levy. "Eye movements in reading as optimal responses to the contextualized structure of language." Paper presented at the 2010 annual meeting of the Linguistic Society of America, Baltimore, MD, 7–10 January 2010.
- **2009.** Roger Levy. "Online language processing as rational process model: garden-pathing and the particle filter." Oral presentation given at the 31st annual meeting of the Cognitive Science Society, in the symposium *Rational Process Models*, July 29–August 1, 2009.
- Levy, R., Bicknell, K., Slattery, T. & Rayner, K. (2009b). Readers maintain and act on uncertainty about past linguistic input: Evidence from eye movements.
- **2009.** Roger Levy, Florencia Reali, and Thomas Griffiths. "Digging-in effects as rational limited-parallel sentence comprehension." Poster presentation given at the 2009 CUNY sentence processing conference, 26 March 2009.
- **2009.** Klinton Bicknell and Roger Levy. "A new model of local coherences as resulting from Bayesian belief update." Poster presentation given at the 2009 CUNY sentence processing conference, 26 March 2009.
- **2009.** Harry Tily, Marie-Catherine de Marneffe, and Roger Levy. "Comprehension difficulty reflects an understanding of likely production errors." Poster presentation given at the 2009 CUNY sentence processing conference, 27 March 2009.
- **2009.** Roger Levy. "With uncertain input, rational sentence comprehension is good enough". Paper presented at the 2009 annual meeting of the Linguistic Society of America, San Francisco, CA, 8–11 January 2009.
- **2009.** Klinton Bicknell and Roger Levy. "An empirical investigation and new model of local coherences". Paper presented at the 2009 annual meeting of the Linguistic Society of America, San Francisco, CA, 8–11 January 2009.
- **2008.** Nathaniel Smith and Roger Levy. "Probabilistic Prediction and the Continuity of Language Comprehension." Presented at the 9th Conference on Conceptual Structure, Discourse, and Language (CSDL 9).
- Levy, R. (2008b). A fully rational model of local-coherence effects: Modeling uncertainty about the linguistic input in sentence comprehension.
- Smith, N. J. & Levy, R. (2008b). Surprisal as optimal behavior: A formal model and empirical investigation.
- **2008.** Hannah Rohde, Roger Levy, and Andrew Kehler. "Implicit Causality Biases Influence Relative Clause Attachment." Poster presentation given at the 2008 CUNY sentence processing conference, 12–14 March 2008.
- **2008.** Roger Levy, Edward Gibson, and Evelina Fedorenko. "Expectation-based processing of extraposed structures in English." Poster presentation given at the 2008 CUNY sentence processing conference, 12–14 March 2008.
- **2008.** Roger Levy and Frank Keller. "Expectation and Memory in Processing of German Verb-final Clauses: Relativization Matters." Poster presentation given at the 2008 CUNY sentence processing conference, 12–14 March 2008.
- **2008.** Klinton Bicknell, Vera Demberg, and Roger Levy. "Local coherences in the wild: An eye-tracking corpus study." Poster presentation given at the 2008 CUNY sentence processing conference, 12–14 March 2008.

- **2008.** Hannah Rohde, Roger Levy, and Andrew Kehler. "Coherence-Driven Effects in Relative Clause Processing." Oral presentation at the 2008 annual meeting of the Linguistic Society of America, Chicago, IL, 3–6 January 2008.
- **2008.** Gabriel Doyle and Roger Levy. "Mixed categories and gradient grammatical constraints." Poster presentation at the 2008 annual meeting of the Linguistic Society of America, Chicago, IL, 3–6 January 2008.
- **2007.** Roger Levy, Evelina Fedorenko, and Edward Gibson. "The syntactic complexity of Russian relative clauses." Poster presentation given at *Interdisciplinary Approaches to Relative Clauses*, Cambridge University, September 2007.
- Levy, R., Fedorenko, E. & Gibson, T. (2007). The syntactic complexity of Russian relative clauses.
- **2007.** Roger Levy and Frank Keller. "Sentence position and time-course in expectation-based processing of final verbs." Poster presented at the 2007 CUNY sentence processing conference.
- Demberg, V., Keller, F. & Levy, R. (2007). Eye-tracking evidence for frequency and integration cost effects in corpus data.
- **2007.** Evelina Fedorenko and Roger Levy. "Information-structure and word-order in Russian sentence comprehension." Poster presented at the 2007 CUNY sentence processing conference.
- **2006.** Roger Levy, Evelina Fedorenko, and Edward Gibson. "The syntactic complexity of Russian relative clauses." Poster presented at the 2006 Architectures and Mechanisms for Language Processing (AMLaP) Conference.
- Jaeger, T. F. & Levy, R. (2006). The structural basis of probabilistic syntactic production.
- **2006.** Evelina Fedorenko and Roger Levy. "Information-structure and word-order in Russian sentence comprehension." Poster presented at the 2006 Architectures and Mechanisms for Language Processing (AMLaP) Conference.
- Jaeger, F. T., Levy, R., Wasow, T. & Orr, D. M. (2005). The absence of "that" is predictable if a relative clause is predictable.
- **2005.** "German word order and expectation-based syntactic processing." Poster presented at the 18th annual CUNY Sentence Processing Conference, March/April 2005.
- **2005.** "Processing difficulty in verb-final clauses matches syntactic expectations." Presented at the 2005 meeting of the Linguistic Society of America, January 2005.
- **2004.** "Quantifying syntactic discontinuity in natural language." Presented at the 40th annual meeting of the Chicago Linguistic Society.
- **2003.** David Oshima and Roger Levy. "Nouns with multiple classifiers and non-transitive information flow in Japanese." Presented at the Stanford Semantics Fest, March 2003.
- **2002.** "The Statistical Distribution of English Coordinate Noun Phrases: Parallelism and Weight Effects." Presented at the 31st annual meeting of *New Ways to Analyze Variation*, October 2002.
- **2002.** "Non-events and the aspect of locative *keep.*" Presented at the Stanford Semantics Fest, March 2002.

OTHER PRESENTATIONS

2015. Discussant, workshop on "Competition in Linguistics", 12 July 2015, University of Chicago.

2010. Workshop panelist, "The Role of Entropy in Language, Communication & Behavioral Sequencing", Santa Fe Institute, 14–16 June 2010.

2009. "A brief and friendly introduction to multi-level models in psycholinguistics: conceptual background." Presented at the 2009 Pre-CUNY Workshop on Ordinary and Multilevel Models, 25 March 2009.

2008. Panelist, CUNY Sentence Processing Conference special session, *Formal Models of Human Sentence Processing*, 14 March 2008.

2007. Panelist, Grammar Engineering across Frameworks workshop, 13 July 2007.

2007. "Logistic regression and model selection in investigating how speakers regulate information density in language use." Presented at the first UC San Diego workshop in statistics, biostatistics and bioinformatics: *Model selection and Statistical Learning*, 15 March 2007.

TEACHING: UNIVERSITY COURSES

Taught at MIT

Spring 2020. 9.S916: Deep-learning and symbolic models of human language

Spring 2020. 9.19: Computational Psycholinguistics.

Spring 2019. 9.S913/24.954: Pragmatics in Linguistic Theory.

Spring 2019. 9.19: Computational Psycholinguistics.

Spring 2018. 9.S913/24.964: Learning and Linguistic Representations.

Spring 2018. 9.19: Computational Psycholinguistics.

Spring 2017. 9.19: Computational Psycholinguistics.

Fall 2016. 9.S956: Cooperation, Communication, and Pragmatics. Taught at UCSD [1xx=upper-division undergraduate, 2xx=graduate]:

Fall 2015. Linguistics 228: Probabilistic models of cognition (co-taught with Ed Vul, UCSD Psychology).

Winter 2015. Cognitive Science 200: Computational and Experimental Pragmatics.

Winter 2015. Linguistics 165: Computational Linguistics.

Fall 2014. Linguistics 247: Topics in Pragmatics (Bayesian and game-theoretic pragmatics).

Fall 2014. Linguistics 101: Introduction to the Study of Language.

Spring 2013. Linguistics 274: Computational Psycholinguistics.

Winter 2013. Linguistics 101: Introduction to the Study of Language.

Winter 2013. Linguistics 170: Psycholinguistics.

Fall 2012. Linguistics 251: Probabilistic Methods in Linguistics.

Spring 2012. Linguistics 252: Advanced Probabilistic Models of Language.

Spring 2012. Linguistics 170: Psycholinguistics.

Fall 2010. Linguistics 251: Probabilistic Methods in Linguistics.

Fall 2010. Linguistics 165: Computational Linguistics.

Spring 2010. Linguistics 170: Psycholinguistics.

Winter 2010. Linguistics 274: Computational Psycholinguistics.

Fall 2009. Linguistics 101: Introduction to the Study of Language.

Spring 2009. Linguistics 170: Psycholinguistics.

Winter 2009. Linguistics/Computer Science & Engineering 256: Statistical Natural Language Processing

Fall 2008. Linguistics 251: Probabilistic Methods in Linguistics.

Fall 2008. Linguistics 101: Introduction to the Study of Language.

Winter 2008. Linguistics/Computer Science & Engineering 256: Statistical Natural Language Processing.

Winter 2008. Linguistics 101: Introduction to the Study of Language.

Fall 2007. Linguistics 251: Probabilistic Methods in Linguistics.

Spring 2007. Linguistics 274: Computational Psycholinguistics.

Fall 2006. Linguistics 170: Psycholinguistics.

Fall 2006. Linguistics 101: Introduction to the Study of Language.

Taught at Stanford [1xx=upper-division undergraduate, 2xx=graduate]:

Winter 2005. Linguistics 235: Quantitative and Probabilistic Explanation in Linguistics. Co-taught with Christopher Manning.

Winter 2002. Linguistics 130A: Introduction to Semantics and Pragmatics. Teaching assistant for Hana Filip.

Spring 2001. Computer Science 224n/Linguistics 237: Statistical Natural Language Processing. Teaching assistant for Christopher Manning.

Winter 2000. Anthropological Sciences 5: Biology and Evolution of Language. Teaching assistant for James Fox.

TEACHING: SPECIAL COURSES

Fall 2018. Probabilistic models of human language processing and acquisition. Four-course special lecture series as International Chair in Empirical Foundations of Linguistics, Paris Diderot University, September–October 2018.

Summer 2015. Advanced Statistical Modeling in R, taught at the 2015 Institute of the Linguistic Society of America, July 2015.

Summer 2015. Computational Psycholinguistics, taught (jointly with Klinton Bicknell) at the 2015 Institute of the Linguistic Society of America, July 2015.

Summer 2014. Computational Psycholinguistics. Advanced course taught (jointly with Klinton Bicknell) at the 26th European Summer School in Logic, Language, and Information (ESSLLI), August 2014.

Summer 2012. Probabilistic models in the study of language. Introductory course taught at the 24th European Summer School in Logic, Language, and Information (ESS-LLI), August 2012.

Summer 2011. Invited lecturer, UCLA Institute for Pure & Applied Mathematics Graduate Summer School: *Probabilistic Models of Cognition: The Mathematics of Mind*, July 2011.

Summer 2011. Computational Psycholinguistics, taught (jointly with T. Florian Jaeger)

at the 2011 Institute of the Linguistic Society of America, University of Colorado at Boulder, July–August 2011.

June 2010. Computational Psycholinguistics. Tutorial given at the NAACL-HLT Conference, Los Angeles, CA, 1 June 2010.

Summer 2009. Computational Psycholinguistics. Advanced course taught at the 21st European Summer School in Logic, Language, and Information (ESSLLI), July 2009.

December 2007. Computational Psycholinguistics, graduate Blockseminar (intensive short course), University of Potsdam.

Summer 2007. Invited lecturer on Natural Language Modeling, UCLA Institute for Pure & Applied Mathematics Graduate Summer School: *Probabilistic Models of Cognition: The Mathematics of Mind*, July 2007.

Summer 2007. Computational Psycholinguistics, taught at the 2007 Institute of the Linguistic Society of America, Stanford University, July 2007.

Summer 2006. Probabilistic Methods in Computational Psycholinguistics. Advanced course taught at the 18th European Summer School in Logic, Language, and Information (ESSLLI), August 2006.

PREDOCTORAL RESEARCH ASSISTANTSHIPS & EXPERIENCE

Computational Linguistics

2002-2005

Research Assistant, Natural Language Processing Group, Department of Computer Science, Stanford University. Supervisor: Christopher Manning.

Lexical Semantics Summer 2002

Visitor, Framenet and Embodied Construction Grammar projects. International Computer Science Institute, University of California at Berkeley.

Evolutionary Anthropology

1997-1999

Research student, Department of Anthropology, Faculty of Biology, University of Tokyo. Supervisor: Kenichi Aoki. Continued at Stanford University, Department of Anthropological Sciences, under Arthur Wolf.

Minnesota Supercomputer Institute Summer Internship

1995

Department of Chemical Engineering, University of Minnesota. Supervisor: Robert Tranquillo.

OTHER PROFESSIONAL EXPERIENCE

Consulting, Natural Language Processing

2006-

Consultant to corporations & university research groups on natural language processing, including segmentation, stemming, morphological analysis, part-of-speech tagging, and parsing, for English, Chinese, German, Japanese, and Arabic.

Linguistic Consultant, Inxight Software

2000-2002

Worked on lexicon management, segmentation, stemming, morphological analysis, part-of-speech tagging, and named entity extraction in Chinese, Japanese, and Russian. Extensive experience with finite-state and statistical methods for these tasks.

Translator 1996–2004

Experienced in Chinese \rightarrow English and Japanese \rightarrow English freelance translation, in arts, social science, and medical domains.

ADVISING & MENTORSHIP

| Postdoctoral Mentees | |
|--|-----------------------|
| Victoria Fossum, UCSD Linguistics | 2011-2012 |
| →Software engineer, Google | |
| Titus von der Malsburg, UCSD Psychology and Linguistics | 2014-2016 |
| →Visiting Professor, Psycholinguistics & Neurolinguistics, Potsdam | Univ. 2016–2020 |
| →Tenure-track faculty, Institut für Linguistik, Universität Stuttgart | 2020- |
| Eva Wittenberg, UCSD Center for Research in Language | 2015-2016 |
| →Assistant Professor, UCSD Linguistics | 2016- |
| Richard Futrell, MIT BCS | 2017-2018 |
| →Assistant Professor, UC Irvine Language Science | 2018- |
| Helena Aparicio, MIT BCS | 2017-2020 |
| →Assistant Professor, Cornell University Linguistics | 2021- |
| Yevgeni Berzak, MIT BCS | 2018-2021 |
| →Senior Lecturer, Industrial Engineering and Management, Technic | on 2021– |
| Michael Henry Tessler, MIT BCS | 2018– |
| Stephan Meylan, MIT BCS | 2019– |
| Ph.D. Advisees | |
| Klinton Bicknell, UCSD Linguistics | Graduated 2011 |
| →Postdoctoral researcher, UCSD Psychology | 2011–2013 |
| →Postdoctoral researcher, Rochester Brain & Cognitive Sciences | 2013-2014 |
| →Assistant Professor, Northwestern Linguistics | 2014- |
| →Research Scientist, Duolingo | 2018- |
| e e e e e e e e e e e e e e e e e e e | Graduated 2011 |
| →Postdoctoral researcher, University of Edinburgh Informatics | 2012-2015 |
| →Computational Fellow, Berkeley Institute for Data Science | 2015- |
| | Graduated 2012 |
| →Postdoctoral fellow, Rochester Brain & Cognitive Sciences | 2012-2014 |
| →Researcher and Lecturer, Northwestern University Linguistics | 2014-2015 |
| →Research Scientist, Duolingo | 2015- |
| Rebecca Colavin, UCSD Linguistics (co-chair with Sharon Rose) | Graduated 2013 |
| Y. Albert Park, UCSD Computer Science & Engineering (CSE) | Graduated 2013 |
| →Chief Research Engineer, LG Electronics | |
| Gabriel Doyle, UCSD Linguistics | Graduated 2014 |
| →Postdoctoral researcher, Stanford Psychology | 2014-2017 |
| →Asst. Professor, San Diego State Univ., Ling. & Asian/Middle Eas | stern Languages |
| 2017– | |
| Anubha Kothari, Stanford Linguistics (Thomas Wasow co-chair) →Facebook | Graduated 2010 |
| | Graduated 2016 |

| ightarrowPostdoctoral researcher, Tufts Psychology | 2016–2018 |
|--|-----------------------|
| →Assistant Professor, Dept. of Linguistics, UC Davis | 2018– |
| Richard Futrell, MIT Brain & Cognitive Sciences | Graduated 2017 |
| →Postdoctoral Researcher, MIT Brain & Cognitive Sciences | 2017–2018 |
| →Assistant Professor, Dept. of Language Science, UC Irvine | 2018– |
| Till Poppels, UCSD Linguistics | 2014-2020 |
| ightarrowPostdoctoral researcher, Paris University Diderot | 2021- |
| Meilin Zhan, UCSD Linguistics and MIT Brain & Cognitive Sciences | 2014-2020 |
| →Research Specialist, MIT Brain & Cognitive Sciences | 2020-2021 |
| Matthias Hofer, MIT Brain & Cognitive Sciences | 2017–present |
| Jonathan Gauthier, MIT Brain & Cognitive Sciences | 2018-present |
| Peng Qian, MIT Brain & Cognitive Sciences | 2018-present |
| Jennifer Hu, MIT Brain & Cognitive Sciences | 2019-present |
| Tiwalayo Eisape, MIT Brain & Cognitive Sciences | 2020-present |
| Carina Kauf, MIT Brain & Cognitive Sciences | 2020–present |
| Ph.D. Committees | - |
| Jeremy K Boyd, UCSD Linguistics | Graduated 2007 |
| Hannah Rohde, UCSD Linguistics | Graduated 2008 |
| Laura Kertz, UCSD Linguistics | Graduated 2010 |
| Harry Tily, Stanford Linguistics | Graduated 2010 |
| Elizabeth Schotter, UCSD Psychology | Graduated 2013 |
| Bernhard Angele, UCSD Psychology | Graduated 2013 |
| Patrick Plummer, UCSD Psychology | Graduated 2015 |
| Ross Metusalem, UCSD Cognitive Science | Graduated 2015 |
| Kevin Smith, UCSD Psychology | Graduated 2015 |
| Wen-Hsuan Chan, UCSD Cognitive Science | Graduated 2016 |
| Gwendolyn Gillingham, UCSD Linguistics | 2012- |
| Nick Gruberg, UCSD Psychology | 2013- |
| External Thesis Examinations | |
| Luke Maurits, PhD, Psychology, University of Adelaide | 2011 |
| Cyrus Shaoul, PhD, Psychology, University of Alberta | 2012 |
| Kristina Gulordava, PhD, Linguistics, University of Geneva | 2018 |
| Comprehensive Paper Committees (excluding Ph.D. advisees) | |
| Kathyrn Cooke, UCSD Linguistics | 2007 |
| Lucien Carroll, UCSD Linguistics | 2009 |
| Jamie Alexandre, UCSD Cognitive Science | 2009 |
| Dan Michel, UCSD Linguistics | 2009, 2010 |
| Chris Barkley, UCSD Linguistics | 2009 |
| Gwen Gillingham, UCSD Linguistics (co-chair) | 2010 |
| Carson Dance, UCSD Cognitive Science | 2011 |
| Gary Patterson, UCSD Linguistics | 2012 |
| Page Piccinini, UCSD Linguistics (chair) | 2013 |
| Scott Seyfarth, UCSD Linguistics (chair) | 2013 |
| Jasmeen Kanwal, UCSD Linguistics (co-chair) | 2013 |
| , | 2010 |

| Masters Degree Advisees | |
|--|-----------------------|
| Azadeh Monirabbassi, UCSD Computer Science & Engineering (c | o-chair with Gary |
| Cottrell) | Graduated 2008 |
| Randy West, UCSD CSE (co-chair with Gary Cottrell) | Graduated 2011 |
| \rightarrow Microsoft | |
| Vineet Kumar, UCSD CSE (co-chair with Charles Elkan) | Graduated 2012 |
| ightarrowPhD program, UMass Computer Science | |
| Russell Horton, UCSD Linguistics | Graduated 2012 |
| ightarrowReverb Technologies, Inc. | |
| Masters Degree Committees | |
| Matt Rodriguez, UCSD CSE | Graduated 2009 |
| Undergraduate Research Assistants (at UCSD) | |
| Heidi Laidemitt, Linguistics | 2007 |
| Margo Schwartz, Linguistics | 2007-2008 |
| Joel Roman, Cognitive Science | 2008 |
| Kenneth Dowling III, Linguistics (Eleanor Roosevelt College honors | project) 2008-2009 |
| Natalie Katz, Linguistics | 2008–2010 |
| Henry Lu, Math & Economics | 2009-2010 |
| Miriam Ayad, Physiology & Neuroscience | 2009-2010 |
| Andrew Izu, Linguistics | 2009-2010 |
| Elena Churilov, Linguistics & Psychology | 2010 |
| →PhD program in Psychology, SUNY–Stony Brook | |
| Emma Hendricks, Linguistics | 2010 |
| ightarrowPhD program in Education, Vanderbilt | |
| Maria Jones (née Sokolov), Linguistics | 2010-2012 |
| →Post-Baccelaurate in Communication Sciences & Disorders, Cha | pman University |
| ightarrowPhD program in Education, UC Irvine | • |
| Erin Bennett, Ling & Math | 2010-2011 |
| →Baggett Post-baccalaureate Fellow with Naomi Feldman (Maryl | and Linguistics) |
| →Lab manager for Noah D. Goodman (Stanford Psychology) | |
| →PhD Program in Psychology, Stanford University | |
| Megha Ram, International Studies (Eleanor Roosevelt College honor | rs project) 2010– |
| 2011 | |
| Tiffany Chiou, Biochemistry/Chemistry (Eleanor Roosevelt College | ge honors project) |
| 2010– | 1 , , |
| Daphne Tan, Economics (Eleanor Roosevelt College honors project) | 2011 |
| K. Michael Brooks, Linguistics | 2012-2013 |
| →PhD Program in Communication Sciences & Disorders, Northw | estern University |
| William Presant, Spanish Literature | 2013 |
| Melodie Yen, Linguistics & Psychology | 2012-2014 |
| →PhD Program in Linguistics, University of Arizona | |
| Agatha Ventura, Linguistics | 2013-2014 |
| Wednesday Bushong, Linguistics & Cognitive Science | 2013-2015 |
| →PhD Program in Brain & Cognitive Sciences, University of Roch | |
| | |

| Bonnie Chinh, Linguistics & Cognitive Science | 2013-2015 |
|--|-----------|
| Abhishek Goyal, Computer Engineering | 2014-2015 |
| Hannah Campbell, Cognitive Science | 2015 |
| Miranda Clemmons, Cognitive Science | 2015 |
| Jake Prasad, Computer Science | 2014–2015 |
| Suhas Arehalli, Computer Science | 2015–2016 |
| →PhD program in Cognitive Science, Johns Hopkins University | |
| Undergraduate Research Assistants (at MIT) | |
| Veronica Boyce, Brain & Cognitive Sciences | 2017–2019 |
| →Research Associate, MIT Computational Psycholinguistics Lab | 2019–2020 |
| ightarrowPhD Program in Psychology, Stanford University | 2020- |
| Aaron Fleischer, Brain & Cognitive Sciences | 2018 |
| Emma Majercak, Biological Engineering | 2018 |
| Margarita Misirpashayeva, Linguistics & Philosophy | 2018–2019 |
| Jennifer Yu, Brain & Cognitive Sciences | 2018 |
| Theodor Cucu, Linguistics & Philosophy | 2018–19 |
| Gordon Garrett, Electrical Engineering & Computer Science | 2018 |
| Brin Harper, Mathematics | 2018–2019 |
| Julia Wu, Electrical Engineering & Computer Science | 2018 |
| Katherine Xiao, Electrical Engineering & Computer Science | 2018–2019 |
| Karen Gu, Electrical Engineering & Computer Science | 2018–2020 |
| Jason Madeano, Electrical Engineering & Computer Science | 2018– |
| Julia Chatterjee, Mechanical Engineering | 2019 |
| Jiaxing Liu, Biology | 2019– |
| Dakota Thurman, Management | 2019 |
| Kevin Zayas, Electrical Engineering & Computer Science | 2019 |
| A R. Bancks, Electrical Engineering & Computer Science | 2019 |
| Sophia Cheung, Mechanical Engineering | 2019 |
| Miguel Gomez-Garcia, Electrical Engineering & Computer Science | 2019 |
| Nikasha Patel, Electrical Engineering & Computer Science | 2019 |
| Silvia Cho, Biological Engineering | 2019 |
| Eric Hong, Electrical Engineering & Computer Science | 2019 |
| Katherine Liu, Brain & Cognitive Sciences (year 1) | 2019 |
| Lauren Schexnayder, Brain & Cognitive Sciences | 2019 |
| Arun Wongprommoon, Brain & Cognitive Sciences (year 1) | 2019–2020 |
| Beining Zhang, Electrical Engineering & Computer Science | 2019–2020 |
| Kristy Chang, Linguistics & Philosophy | 2020- |
| Jamie Geng, Electrical Engineering & Computer Science | 2020- |
| Siyi Lin, Brain & Cognitive Sciences (year 1) | 2020- |
| Erin Shin, Brain & Cognitive Sciences (year 1) | 2020– |
| Chelsea Ajunwa, Brain & Cognitive Sciences | 2020- |
| Robert Chen, Brain & Cognitive Sciences (year 1) | 2020- |
| Faduma Khalif, Electrical Engineering & Computer Science | 2020- |
| Mason Lykes, Linguistics & Philosophy | 2020– |

| Carl Joshua T. Quines, Brain & Cognitive Sciences (year 1) | 2020- |
|--|-------|
| Kevin Shao, Brain & Cognitive Sciences (year 1) | 2020- |
| Pranali Vani, Brain & Cognitive Sciences (year 1) | 2020- |
| Irene Zhou, Brain & Cognitive Sciences | 2020- |
| Curtis Chen, Brain & Cognitive Sciences | 2020- |

EDUCATIONAL COMMONS

The below items are also listed elsewhere on my CV, but are gathered together here for convenience in assessment of my case for promotion at MIT.

| Member, MIT Committee on the Library System | 2017–present |
|--|---------------|
| Chair, MIT Committee on the Library System | 2018-present |
| Supervision of 38 UROPs | 2017-present |
| (full list in Advising & Mentorship Undergraduate Research Assistantship | ips (at MIT)) |
| Core organizing team member, MIT Day of Action | 2017, 2018 |
| (see also Honors and Awards) | |

ACADEMIC SERVICE

Grant proposal reviewing

| | NIH Language & Communication (LCOM) Study Section chartered member 20 | 19–2023 |
|---|---|---------|
| | Ad-hoc reviewer, one ESRC proposal | 2018 |
| | Ad-hoc reviewer, two National Science Foundation panels | 2018 |
| | NIH LCOM Study Section, temporary member | 2017 |
| | Ad-hoc reviewer, one National Science Foundation panel | 2017 |
| | NIH LCOM Study Section, temporary member | 2016 |
| | Panelist, one National Science Foundation panel | 2016 |
| | Ad-hoc reviewer, one National Science Foundation panel | 2016 |
| | Ad-hoc reviewer, one National Science Foundation panel | 2015 |
| | Ad-hoc reviewer, one National Science Foundation panel | 2014 |
| | Member, NSF College of Reviewers, Perception/Action/Cognition | 2013- |
| | Panelist, one National Science Foundation panel | 2013 |
| | Panelist, one National Science Foundation panel | 2012 |
| | Ad-hoc reviewer, two National Science Foundation panels | 2012 |
| | Panelist, one National Science Foundation panel | 2011 |
| | Ad-hoc reviewer, two National Science Foundation panels | 2010 |
| | Panelist, one National Science Foundation panel | 2010 |
| | Ad-hoc reviewer, one National Science Foundation panel | 2009 |
| | Ad-hoc reviewer, one National Science Foundation panel | 2007 |
| | Panelist, two National Science Foundation panels | 2007 |
| E | ditorial Work for Journals | |
| | | |

E

| Inaugural Associate Editor, Glossa Psycholinguistics | 2021- |
|--|--------------|
| Editorial Board, Open Mind | 2020-present |
| Associate Editor, Language | 2017–2019 |
| Consulting Editor, Journal of Experimental Psychology: General | 2017-present |

Founding Associate Editor, Open Mind

2016-2020

Standing Review Committee Member, *Transactions of the Association for Computational Linguistics* 2014–2015

Associate Editor, Cognitive Science

2013-2015

Editorial Board, Linguistic Issues in Language Technology

2007-present

Service to Scholarly Societies

Member, Governing Board of the Cognitive Science Society

2017-2022

Conference & Workshop Organization

Conference Co-chair, Conference on Natural Language Learning (CoNLL) 2017, Vancouver, Canada

Co-organizer, Cognitive Modeling and Computational Linguistics (CMCL) 2013, Sofia, Bulgaria (collocated with ACL)

Co-organizer, Cognitive Modeling and Computational Linguistics (CMCL) 2012, Montreal (collocated with NAACL-HLT)

Faculty co-supervisor, North American Association for Computational Linguistics (NAACL) Student Research Workshop 2012, Montreal

Conference Area Chairs

ACL-IJCNLP 2021 (Senior Area Chair, Linguistic Theories, Cognitive modeling and Psycholinguistics)

EACL 2021 (Area Chair, Linguistic Theories, Cognitive modeling and Psycholinguistics)

EMNLP 2020 (Senior Area Chair, Linguistic Theories, Cognitive Modeling and Psycholinguistics)

EMNLP 2018 (Morphology, Tagging, Parsing, Formal Linguistics and Psycholinguistics)

ACL 2013, 2016, 2017 (Cognitive Modeling and Psycholinguistics)

NIPS 2011

ACL 2010 (Psycholinguistics)

COLING 2010 (Cognitive Modeling)

Program Committees

ACL 2018, Workshop on Relevance of Linguistic Structure in Neural Architectures for NLP

Cognitive Science Society, 2008, 2009, 2016, 2018, 2020, 2021

Semantics and Linguistic Theory (SALT), 2017, 2018, 2021

Annual Meeting of the European Chapter of the Association for Computational Linguistics (EACL), 2016

Annual Conference of the Cognitive Science Society, 2016

North American Summer School for Logic, Language, and Information (NASSLLI), 2014

7th Workshop on Innovative Uses of NLP for Building Educational Applications, NAACL 2012

DGfS 2012 Workshop on Information Density and Linguistic Variation

Architectures and Mechanisms in Language Processing (AMLaP) Conference, 2011

ACL Workshop on Cognitive Modeling and Computational Linguistics, 2010, 2011

CUNY Sentence Processing Conference, 2009, 2010

Quantitative Investigations in Theoretical Linguistics (QITL), 2006, 2008 EMNLP 2006

ACL/COLING Workshop on Multi-word Expressions, 2006

Conference on Natural Language Learning (CoNLL), 2006, 2008, 2018

International Conference on Computer Processing of Oriental Languages, 2006

At-large reviewing

2021: *ICLR*, CUNY Sentence Processing Conference, Semantics and Linguistic Theory (SALT), NAACL-HLT, Cognitive Science (×2), Proceedings of the National Academy of Sciences, Linguistics & Philosophy

2020: CUNY Sentence Processing Conference, AMLaP-Asia, AMLaP, *Journal of Memory and Language* (JML; ×2), *Journal of Semantics, Trends in Cognitive Sciences*,

2019: Annual Meeting of the Linguistic Society of America (LSA), *Psychological Review*, CUNY Sentence Processing Conference, SALT, *Proceedings of the National Academy of Sciences (PNAS)*

2018: CUNY Sentence Processing Conference, JML, *Psychological Review*, Architectures and Mechanisms in Language Processing conference (AMLaP), *Current Directions in Psychological Science* (×2), *Journal of Experimental Psychology: General, Cognitive Science, Science*

2017: Annual Meeting of the Linguistic Society of America (LSA), Cognitive Modeling and Computational Linguistics workshop (CMCL), *Cognitive Science*, (JML (×2), *Journal of Semantics*, CUNY Sentence Processing Conference, *Journal of Experimental Psychology:General*

2016: CUNY Sentence Processing Conference, Semantics and Linguistic Theory (SALT), Linguistic Typology, International Journal of Speech-Language Pathology (IJSLP), Empirical Methods in Natural Language Processing (EMNLP), JML (×2), AMLaP, Language and Speech, Journal of Experimental Psychology: Learning, Memory, and Cognition (JEP:LMC), Language

2015: SALT, CUNY Sentence Processing Conference, Experimental Pragmatics Conference (XPRAG), *Cognition*, *PNAS*, IJSLP, *JML*

2014: ACL, Cognition (×2), JEP:LMC, PNAS, Philosophical Psychology, AMLaP

2013: CUNY Sentence Processing Conference, Cognition (×4), Cognitive Science, PLoS One, Language and Cognitive Processes, The 19th Amsterdam Colloquium, Transactions of the Association for Computational Linguistics, PNAS

2012: Computational Linguistics, Cognition (x2), Cognitive Science, ACL, CUNY Sentence Processing Conference, Cognitive Science Society Conference, Cambridge University Press, Psychological Science, Topics in Cognitive Science (TopiCS), AMLaP, Cognitive Psychology

2011: Language, CUNY Sentence Processing Conference, West Coast Conference on Formal Linguistics (WCCFL), Cognitive Science Society, English Language & Linguistics (ELL), Journal of Experimental Psychology: General, Psychological Science, International Joint Conferences on Artificial Intelligence (IJCAI), Experimental and Theoretical Advances in Prosody (ETAP), Cognitive Linguistics, Cognition (×2), EMNLP, AMLaP, Linguistic Society of America (LSA) Annual Meeting, Input & Syntactic Acquisition/

Psychocomputational Models of Language Acquisition workshop, MIT Press

2010: Cognition (\times 2), Computational Linguistics, Dialogue & Discourse, Data Mining and Knowledge Discovery, Journal of Experimental Psychology: General, Journal of Memory & Language (\times 2), Psychological Science (\times 2), Psychonomic Bulletin & Review, Research on Language and Computation, Syntax, Cognitive Science Society, NIPS, AMLaP

2009: Attention, Perception, & Psychophysics, Cognition (×3), Cognitive Science (×2), Computational Linguistics, Cortex, Data Mining and Knowledge Discovery, Journal of Memory and Language (×2), Discourse Processes, Language & Cognitive Processes (×2), Natural Language Engineering, Syntax, WCCFL, NAACL/HLT, NIPS, LSA Annual Meeting, Oxford University Press, Computational Linguistics in The Netherlands

2008: Cognition (×3), Cognitive Science, Computational Linguistics, Language & Cognitive Processes (×3), Journal of Logic, Language, and Information, Memory & Cognition, Perception & Psychophysics, EMNLP, Conference on Neural Information Processing Systems (NIPS), CUNY Sentence Processing Conference, Chicago Linguistic Society

2007: Cognition, Corpora, Language & Cognitive Processes, EMNLP-CoNLL, CUNY Sentence Processing Conference, AMLaP, HLT/NAACL, Chicago Linguistic Society, WECOL

2006: *Cambridge Handbook on Computational Cognitive Modeling, Cognitive Science* (2 times), CUNY Sentence Processing Conference, EACL

2005: *Cognitive Science* (2 times), HLT/EMNLP, ACL, Springer *Text, Speech, and Language Technology* series

2004: COLING

Roger Levy

Institute Service, MIT

| Member, MIT Committee on the Library System | 2017-present |
|--|--------------|
| Chair, MIT Committee on the Library System | 2018–present |
| Core organizing team member, MIT Day of Action | 2017, 2018 |

Departmental Service, MIT

| Departmental representative to Institute Faculty Meetings | 2019-present |
|--|--------------|
| BCS Graduate Affairs Committee | 2016-present |
| First-year graduate advisor, MIT Brain & Cognitive Sciences | 2016-present |
| Communication of Constitution of Constitution of Constitution Constitution of Constitution Constitution of Con | - 2016 |

Computational faculty search committee, MIT Brain & Cognitive Sciences 2016–present

Departmental Service, UC San Diego

| Departmental Service, OC San Diego | |
|--|----------------------|
| Research/Travel Committee | 2015–2016 |
| Chair, Language Evolution and/or Development Search Commi | ttee 2014–2015 |
| Admissions Committee | 2014–2015 |
| Phonetics Search Committee | 2012–2013 |
| Chair, Colloquium Committee | 2010–2013 |
| Academic Senate Representative, alternate | 2010–2011 |
| Academic Senate (alternate 2007–2008; main representative 2008 | –2009) 2007–2009 |
| Curriculum committee | 2007–2010 |
| External Relations committee (chair) | 2007–2008, 2009–2010 |
| Colloquium committee | 2006–2007 |
| Library committee | 2006–2007 |
| Departmental space committee | 2008–2009 |

Departmental Service, Stanford Linguistics

Colloquium committee

2004-2005

Library and computer committees

2001-2003

R-LANG mailing list

2007-present

Founder (with Marco Baroni) and host of R-LANG mailing list, a forum for discussion of statistical modeling and analysis of language data, in R.

Corpora Initiative

2002-2004

Co-leader with Florian Jaeger of Stanford University Linguistics Department initiative on improving departmental corpora and corpus-related tool resources.

Symposium Organization

1999

Student organizer for Symposium on Molecular Anthropology: *Unraveling the Secrets of Human Genetic Variation*, Department of Anthropological Sciences, Stanford University, May 21, 1999.

Other UCSD-local academic service

Official representative on UCSD's Interdisciplinary Ph.D. Program in Cognitive Science Executive Committee for UCSD's Linguistics Department 2009–2016

2008 Fulbright graduate fellowship interview committee, UCSD campus

Faculty co-advisor, *Alchemy* journal of translation (UCSD Departments of Literature & Linguistics)

2012–2016

Interviewer, UCSD Shuttle Operations

2012

2008

Invited faculty advisor, annual UCSD campus workshop for Assistant Professors applying to the NSF CAREER program 2012

Other academic service (external)

Language & Cognition Area Expert, ESSLLI Student Session

2014

Participant, Beyond the Ivory Tower: A Workshop for Scholars on Writing for the Public, Northeastern University, 2–4 June 2017

LANGUAGE PROFICIENCIES

English - native

Mandarin Chinese, Japanese, and Russian – fluent

Spanish – conversational fluency

German – advanced reading knowledge

French – advanced beginner

Vietnamese, Egyptian Arabic – beginner

Research experience with Arabic, Hindi, Marathi, and Polish

Experienced in Chinese

English and Japanese

English translation.