

Tal Linzen

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Last updated: September 9, 2018

ACADEMIC EMPLOYMENT

- 2017–present **Assistant Professor**
Department of Cognitive Science
Affiliated faculty, Center for Language and Speech Processing
Johns Hopkins University, Baltimore, Maryland
- 2015–2017 **Postdoctoral researcher**
Laboratoire de Sciences Cognitives et Psycholinguistique & Institut Jean Nicod
Ecole Normale Supérieure, Paris

EDUCATION

- 2010–2015 New York University, Ph.D., Linguistics
Thesis title: Probabilistic linguistic representations: Between learning and processing.
Committee: Alec Marantz (chair), Gillian Gallagher, Maria Gouskova, Liina Pykkänen, Florian Jaeger.
- 2008–2010 Tel Aviv University, M.A., Linguistics, *summa cum laude*
Thesis title: Hebrew Possessive Datives: The effects of affectedness.
Advisor: Mira Ariel.
- 2005–2010 Tel Aviv University, B.Sc., Mathematics & Linguistics, *summa cum laude*

Other courses

- 2016 Machine Learning Summer School, Cádiz, Spain
2008 Spring School on Linguistic Diversity, Leipzig, Germany

PEER-REVIEWED JOURNAL ARTICLES

- In press **Tal Linzen.** What can linguistics and deep learning contribute to each other? A response to Pater. *Language (Perspectives section)*.

- In press **Tal Linzen** & Yohei Oseki. The reliability of acceptability judgments across languages. *Glossa*.
- 2018 Laura Gwilliams, **Tal Linzen**, David Poeppel & Alec Marantz. In spoken word recognition the future predicts the past. *Journal of Neuroscience* 38(35), 7585–7599.
- 2017 **Tal Linzen** & Gillian Gallagher. Rapid generalization in phonotactic learning. *Laboratory Phonology: Journal of the Association for Laboratory Phonology* 8(1): 24, 1–32.
- 2016 **Tal Linzen**, Emmanuel Dupoux & Yoav Goldberg. Assessing the ability of LSTMs to learn syntax-sensitive dependencies. *Transactions of the Association for Computational Linguistics* 4, 521–535.
- 2016 Einat Shetreet, **Tal Linzen** & Naama Friedmann. Against all odds: Exhaustive activation in lexical access of verb complementation options. *Language, Cognition & Neuroscience* 31(9), 1206–1214.
- 2016 **Tal Linzen**. The diminishing role of inalienability in the Hebrew Possessive Dative. *Corpus Linguistics and Linguistic Theory* 12(2), 325–354.
- 2016 **Tal Linzen** & Florian Jaeger. Uncertainty and expectation in sentence processing: Evidence from subcategorization distributions. *Cognitive Science* 40(6), 1382–1411
- 2015 Joseph Fruchter*, **Tal Linzen***, Masha Westerlund & Alec Marantz. Lexical preactivation in basic linguistic phrases. *Journal of Cognitive Neuroscience* 27(10), 1912–1935. (* indicates equal contribution.)
- 2015 Maria Gouskova & **Tal Linzen**. Morphological conditioning of phonological regularization. *The Linguistic Review* 32(3), 427–473.
- 2015 Mira Ariel, Elitzur Dattner, John W. Du Bois & **Tal Linzen**. Pronominal datives: The royal road to argument status. *Studies in Language* 39(2), 257–321.
- 2014 **Tal Linzen**. Parallels between cross-linguistic and language-internal variation in Hebrew possessive constructions. *Linguistics* 52(3), 759–792.
- 2014 Allyson Ettinger, **Tal Linzen** & Alec Marantz. The role of morphology in phoneme prediction: Evidence from MEG. *Brain and Language* 129, 14–23.
- 2013 **Tal Linzen**, Alec Marantz & Liina Pykkänen. Syntactic context effects in single word recognition: An MEG study. *The Mental Lexicon* 8(2), 117–139.
- 2013 **Tal Linzen**, Sonia Kasyanenko & Maria Gouskova. Lexical and phonological variation in Russian prepositions. *Phonology* 30(3), 453–515.

PEER-REVIEWED PROCEEDING PAPERS

- 2018 Marten van Schijndel & **Tal Linzen**. A neural model of adaptation in reading. To appear in *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*.
- 2018 Rebecca Martin & **Tal Linzen**. Targeted syntactic evaluation of language models. To appear in *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*.

- 2018 Marten van Schijndel & **Tal Linzen**. Modeling garden path effects without explicit hierarchical syntax. In *Proceedings of the 40th Annual Conference of the Cognitive Science Society*, pages 2600–2605.
- 2018 R. Thomas McCoy, Robert Frank & **Tal Linzen**. Revisiting the poverty of the stimulus: hierarchical generalization without a hierarchical bias in recurrent neural networks. In *Proceedings of the 40th Annual Conference of the Cognitive Science Society*, pages 2093–2098.
- 2018 **Tal Linzen** & Brian Leonard. Distinct patterns of syntactic agreement errors in recurrent networks and humans. In *Proceedings of the 40th Annual Conference of the Cognitive Science Society*, pages 692–697.
- 2018 Kristina Gulordava, Piotr Bojanowski, Edouard Grave, **Tal Linzen** & Marco Baroni. Colorless green recurrent networks dream hierarchically. In *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, pages 1195–1205.
- 2018 Laura Gwilliams, David Poeppel, Alec Marantz & **Tal Linzen**. Phonological (un)certainly weights lexical activation. In *Proceedings of the 2018 Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*, pages 29–34.
- 2017 Émile Enguehard, Yoav Goldberg & **Tal Linzen**. Exploring the syntactic abilities of RNNs with multi-task learning. In *Proceedings of the SIGNLL Conference on Computational Natural Language Learning (CoNLL)*, pages 3–14.
- 2017 **Tal Linzen**, Noam Siegelman & Louisa Bogaerts. Prediction and uncertainty in an artificial language. In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*, pages 2592–2597.
- 2017 Gaël Le Godais, **Tal Linzen** & Emmanuel Dupoux. Comparing character-level neural language models using a lexical decision task. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL): Volume 2, Short Papers*, pages 125–130.
- 2016 **Tal Linzen**. Issues in evaluating semantic spaces using word analogies. In *Proceedings of the First Workshop on Evaluating Vector Space Representations for NLP (RepEval)*, pages 13–18.
- 2016 Allyson Ettinger & **Tal Linzen**. Evaluating vector space models using human semantic priming results. In *Proceedings of the First Workshop on Evaluating Vector Space Representations for NLP (RepEval)*, pages 72–77.
- 2016 **Tal Linzen**, Emmanuel Spector & Benjamin Spector. Quantificational features in distributional word representations. In *Proceedings of the Fifth Joint Conference on Lexical and Computational Semantics (*SEM 2016)*, pages 1–11.
- 2015 **Tal Linzen** & Timothy J. O’Donnell. A model of rapid phonotactic generalization. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP 2015)*, pages 1126–1131.
- 2014 **Tal Linzen** & Florian Jaeger. Investigating the role of entropy in sentence processing. In *Proceedings of the 2014 ACL Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*, pages 10–18.

PROCEEDING PAPERS (REFEREED BY ABSTRACT)

- 2018 James White, René Kager, **Tal Linzen**, Giorgos Markopoulos, Alexander Martin, Andrew Nevins, Sharon Peperkamp, Krisztina Polgárdi, Nina Topintzi & Ruben van de Vijver. Preference for locality is affected by the prefix/suffix asymmetry: Evidence from artificial language learning. To appear in *Proceedings of the 48th Annual Meeting of the North East Linguistic Society (NELS 48)*.
- 2018 Itamar Kastner & **Tal Linzen**. A morphosyntactic inductive bias in artificial language learning. To appear in *Proceedings of the 48th Annual Meeting of the North East Linguistic Society (NELS 48)*.
- 2014 **Tal Linzen** & Gillian Gallagher. The timecourse of generalization in phonotactic learning. In *Proceedings of Phonology 2013*.

INVITED PRESENTATIONS

- 2018 *What can psycholinguistics and deep learning contribute to each other?* University of Potsdam, Germany, September 4.
- 2018 *Neural networks for (psycho)linguistics*. Tutorial given at the University of Potsdam, Germany, September 3.
- 2018 *On the syntactic abilities of recurrent neural networks:*
Experimental Syntax and Heritage Languages Research Group, Humboldt University, Berlin, July 2.
Linguistics Colloquium, Tel Aviv University, Tel Aviv, Israel, June 7.
Linguistics Colloquium, Bar-Ilan University, Ramat Gan, Israel, May 29.
Joint Linguistics and CLIP (Computational Linguistics and Information Processing) Colloquium, University of Maryland College Park, April 11.
- 2018 *Hierarchical behavior without explicit hierarchical representations?* Common Ground Seminar at the University of Pennsylvania, Philadelphia, February 7.
- 2017 *Structure-sensitive dependency learning in recurrent neural networks:*
Cognitive Science Colloquium, Indian Institute of Technology, Delhi, October 12 (via video conference).
Colloquium at the Department of Linguistics, Stony Brook University, Stony Brook, New York, September 29.
Center for Language and Speech Processing Seminar, Johns Hopkins University, September 22.
TLP seminar at LIMSI (Computer Science Laboratory for Mechanics and Engineering Sciences), Paris-Sud University, June 20.
Institute for Language, Cognition and Computation (ILCC) seminar, The University of Edinburgh, June 8.
Colloquium at Tilburg center for Cognition and Communication (TiCC), Tilburg University, The Netherlands, May 31.

- 2017 *Cognitive science and neural network models of language*. Workshop on Deep Learning in Computational Cognitive Science at the 39th Annual Meeting of the Cognitive Science Society, London, July 26.
- 2017 *Information and representations in the neurobiology of morphology*. Workshop on usage statistics, semantic transparency and segmentability in the selection, access and (de)composition of complex words, University of Freiburg, Germany, May 4–6.
- 2017 *Entropy in language comprehension*. Invited talk at the “Information-theoretic modeling of linguistic variation in context” workshop at the 39. Jahrestagung der Deutschen Gesellschaft für Sprachwissenschaft (German Linguistics Society), Saarbrücken, Germany, March 9.
- 2017 *Can recurrent neural networks acquire hierarchical representations from natural texts?* Ling Lunch, Paris Diderot University, January 26.
- 2016 *Using English subject-verb number agreement to evaluate the syntactic capabilities of contemporary neural networks*, Ling Lunch, Queen Mary University of London, November 21.
- 2016 *Can contemporary recurrent neural networks learn syntax-sensitive dependencies?* Language Research Cluster, University of Potsdam, Germany, July 6.
- 2016 *Probabilistic computation and formal representations*. Colloquium talk at the Department of Linguistics, UCLA, February 22.
- 2016 *Understanding probabilistic prediction in sentence processing*. Colloquium talk at the Department of Cognitive Science, Johns Hopkins University, January 6.
- 2015 *Understanding probabilistic prediction in sentence processing*. Language Learning and Processing Lab, The Hebrew University of Jerusalem, Israel, December 27.
- 2015 *How might entropy affect comprehension difficulty?* FEAST (Forum Entwicklung und Anwendung von Sprach-Technologien), Saarland University, Germany, December 7.
- 2015 *Generalization in phonotactic learning:*
 Linguistics Seminar, Tufts University, Cambridge, Massachusetts, February 17.
 Computational Cognitive Science Group, MIT, Cambridge, Massachusetts, February 18.
- 2015 *Probabilistic representations in language: between learning and processing*. Language and Cognition Lab, Stanford University, Palo Alto, California, January 13.
- 2014 *Statistical prediction in language comprehension*. Wohl Institute for Advanced Imaging, Tel Aviv Sourasky Medical Center, Israel, June 2.
- 2014 *Prediction and competition as a window into linguistic representations*. Colloquium talk at the Linguistics Department at Tel Aviv University, Israel, May 29.
- 2014 *Competition and prediction in language comprehension*. Language Processing Brown Bag, University of Illinois at Urbana-Champaign, April 10.

INVITED PARTICIPATION IN WORKSHOPS

- 2017 *Meaning in Context (MIC 3)*, Stanford University, Palo Alto, California, September 11–16.

CONFERENCE AND WORKSHOP PRESENTATIONS WITHOUT PROCEEDINGS

- 2018 Marten van Schijndel & **Tal Linzen**. A neural model of adaptation in reading. Poster, *Architectures and Mechanisms of Language Processing (AMLaP) 2018*, Berlin, September 6–8.
- 2018 Marten van Schijndel & **Tal Linzen**. Can entropy explain successor surprisal effects in reading? Poster, *Architectures and Mechanisms of Language Processing (AMLaP) 2018*, Berlin, September 6–8.
- 2018 R. Thomas McCoy, Robert Frank & **Tal Linzen**. Investigating hierarchical bias in the acquisition of English question formation with recurrent neural networks. Poster, *2018 Legrain conference: Learning Language in Humans and in Machines*, Paris, July 5–6.
- 2018 **Tal Linzen** & Brian Leonard. Agreement attraction does not depend on time pressure. Poster, *31st Annual CUNY Conference on Human Sentence Processing*, Davis, California, March 15.
- 2018 Robert Frank, Tom McCoy & **Tal Linzen**. Neural network syntax in the age of deep learning: the case of question formation. Oral presentation, *Society for Computation in Linguistics*, Salt Lake City, Utah, January 4–7.
- 2018 **Tal Linzen** & Yohei Oseki. The reliability of acceptability judgments beyond English. Oral presentation (by invitation) at the symposium “Understanding Judgment Data in Syntax and Semantics: Insights from Experimental Methodologies”, *Linguistic Society of America 2018 Annual Meeting*, Salt Lake City, Utah, January 4–7.
- 2017 **Tal Linzen**, Yoav Goldberg & Emmanuel Dupoux. Agreement attraction errors in neural networks. Poster, *30th Annual CUNY Conference on Human Sentence Processing*, Cambridge, Massachusetts, March 30–April 1.
- 2016 Ewan Dunbar & **Tal Linzen**. Three important properties of Bayesian inference. Tutorial, *MFM Fringe Workshop on Computational Phonology*, Manchester.
- 2016 **Tal Linzen**. Variation and Change in the Hebrew Dative. Oral presentation, *The Second Usage-Based Linguistics Conference*, Tel Aviv, Israel, June 16.
- 2016 **Tal Linzen**, Timothy J. O'Donnell & Gillian Gallagher. Rapid phonotactic generalization: Behavioral evidence and a Bayesian model. Oral presentation, *Linguistic Society of America 2016 Annual Meeting*, Washington, D.C., January 6–10.
- 2016 **Tal Linzen** & Yohei Oseki. The reliability of acceptability judgments beyond English. Oral presentation, *Linguistic Society of America 2016 Annual Meeting*, Washington, D.C., January 6–10.
- 2015 **Tal Linzen** & Timothy J. O'Donnell. A model of rapid phonotactic generalization. Poster, *Workshop on Computational Phonology and Morphology at the Linguistic Summer Institute*, Chicago, July 11.
- 2014 **Tal Linzen** & Gillian Gallagher. The time course of phonotactic learning. Oral presentation, *Eighth Northeast Computational Phonology Meeting*, New York City, November 15.
- 2014 **Tal Linzen**, Phoebe Gaston, Laura Gwilliams & Alec Marantz. Competition and prediction in the auditory processing of morphologically complex words. Poster, *Sixth*

- Annual Society for the Neurobiology of Language Conference*, Amsterdam, August 27–29.
- 2014 Joseph King, **Tal Linzen** & Alec Marantz. Noun/verb entropy: An MEG study of word-level syntactic category ambiguity. Poster, *Sixth Annual Society for the Neurobiology of Language Conference*, Amsterdam, August 27–29.
- 2014 **Tal Linzen** & Gillian Gallagher. The time course of generalization in phonotactic learning. Member abstract presented as a poster, *36th Annual Conference of the Cognitive Science Society*, Québec, Canada, July 23–26.
- 2013 Maria Gouskova & **Tal Linzen**. Less than words: Morphological effects in lexical variation. Poster, *Phonology 2013*, Amherst, Massachusetts, November 8–10.
- 2013 **Tal Linzen** & Florian Jaeger. Uncertainty and surprisal in sentence processing. Poster, *Architectures and Mechanisms for Language Processing (AMLaP) 2013*, Marseille, September 5–7.
- 2013 **Tal Linzen**, Joseph Fruchter, Masha Westerlund & Alec Marantz. Predicting the foreseeable future: MEG evidence for preactivation of predicted words. Poster, *20th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, April 13–16.
- 2013 Allyson Ettinger, **Tal Linzen** & Alec Marantz. The role of morphology in phoneme prediction: Evidence from MEG. Poster, *20th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, April 13–16.
- 2013 **Tal Linzen**, Joseph Fruchter, Masha Westerlund & Alec Marantz. Predicting the foreseeable future: MEG evidence for preactivation of predicted words. Oral presentation, *26th Annual CUNY Conference on Human Sentence Processing*, Columbia, South Carolina, March 21–23.
- 2013 Allyson Ettinger, **Tal Linzen** & Alec Marantz. The role of morphology in phoneme prediction: Evidence from MEG. Poster, *26th Annual CUNY Conference on Human Sentence Processing*, Columbia, South Carolina, March 21–23.
- 2012 **Tal Linzen**, Alec Marantz, & Liina Pykkänen. Syntactic effects in single word recognition: Evidence from MEG. Oral presentation, *Eighth Mental Lexicon Conference*, Montreal, October 24–26.
- 2012 **Tal Linzen** & Masha Westerlund. Predicting the foreseeable future: Do readers use collocational transition probability to predict upcoming words? Oral presentation, *Eighth Mental Lexicon Conference*, Montreal, October 24–26.
- 2012 **Tal Linzen**, Sonia Kasyanenko & Maria Gouskova. Lexical and phonological variation in Russian prepositions. Oral presentation, *Ninth Old World Conference in Phonology*, Berlin, January 18–21.
- 2011 **Tal Linzen**, Einat Shetreet & Naama Friedmann. Exploring the neural basis of dependency resolution using coordination sentences. Poster, *Third Annual Neurobiology of Language Conference*, Annapolis, Maryland, November 10–11.
- 2011 Einat Shetreet, **Tal Linzen** & Naama Friedmann. The effects of complement predictability on the processing of verbs' complementation options. Poster, *Third Annual Neurobiology of Language Conference*, Annapolis, Maryland, November 10–11.

- 2011 Einat Shetreet, **Tal Linzen** & Naama Friedmann. Are all complementation options activated when accessing the verb? Oral presentation, *Structuring the Argument*, Paris. September 5–7.
- 2010 **Tal Linzen**. Tracking the change in Hebrew possessive constructions using a blog corpus. Poster, *New Ways of Analyzing Variation 40*, Washington, D.C., October 27–30.
- 2010 **Tal Linzen**. Hebrew statistical linguistics using a morphologically analyzed blog corpus. Oral presentation, *Israeli Seminar on Computational Linguistics*, Tel Aviv, June 16.
- 2010 **Tal Linzen**. The Hebrew possessive dative: From affectedness to possession. Oral presentation, *Variation and Change in Argument Realization*, Naples, May 27–30.

AWARDS

- 2018 Center for Educational Resources Technology Fellowship Grant (\$5,000): Internal JHU grant to develop visualizations and other resources for teaching computational cognitive science (with Tom McCoy).
- 2012 Dean’s Travel Grant, New York University
- 2010–2015 Henry M. MacCracken Fellowship, New York University
- 2008–2009 Graduate fellowship, Department of Linguistics, Tel Aviv University
- 2008 Excellence Prize, School of Mathematics, Tel Aviv University
- 2007 Excellence Prize, The Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University
- 2005–2009 Fellowship, The Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University

TEACHING

Classes at Johns Hopkins University

- Fall 2018 AS.050.202: *Introduction to Computational Cognitive Science*
AS.050.819: *Research Seminar in Psycholinguistics*
- Spring 2018 AS.050.819: *Research Seminar in Psycholinguistics*
- Fall 2017 AS.050.101: *Cognition*
AS.050.819: *Research Seminar in Psycholinguistics*

Classes at New York University

- 2013 *Math Tools for Cognitive Science and Neuroscience* (offered by the Psychology and Neural Science department). Teaching assistant for Nathaniel Daw.
- 2012 *Language* (offered by the Linguistics department). Teaching assistant for Maria Gouskova.

Classes at Tel Aviv University

2008 *Foundations of Theoretical Linguistics* (offered by the Linguistics department).
Teaching assistant for Aya Meltzer and Lior Laks.

Other

2013 Statistics workshop, NYU Linguistics (six meetings on regression and mixed-effects modeling in R, co-taught with Sean Martin).

ADVISING AND MENTORING

Postdoctoral researchers

2017–present Marten van Schijndel

PhD advisees

2018–present Suhas Arehalli

2017–present Grusha Prasad

2017–present Tom McCoy (co-advised with Paul Smolensky)

SERVICE

JHU Cognitive Science committees

2017–present Co-chair, colloquium committee

Fall 2018 Brown Bag organizer

Fall 2017 Brown Bag organizer

JHU Graduate Board Oral exams

2018 Hsiang-Yun Sherry Chien (Psychology and Brian Sciences)

2018 Chenxi Liu (Computer Science)

2017 Adi Renduchintala (Computer Science)

Conference and workshop organization

2018 *Analyzing and interpreting neural networks for NLP*, workshop to be co-located with Empirical Methods in Natural Language Processing (EMNLP), Brussels, Belgium, November 1 (co-organizer).

2018 *The 2018 Workshop on Cognitive Modeling and Computational Linguistics*, co-located with the Society for Computational in Linguistics (SCiL) and the Linguistic Society of America (LSA), Salt Lake City, Utah, January 7 (co-organizer).

2017 *The 2017 Workshop on Cognitive Modeling and Computational Linguistics*, co-located with the Conference of the European Chapter of the Association for Computational Linguistics, Valencia, Spain (co-organizer).

Editorial responsibilities for conferences and meetings

2019 Area Chair (Language and Computation), *European Summer School in Logic, Language and Information*, Riga, Latvia.

2018 Technical chair, *2018 Legrain conference: Learning Language in Humans and in Machines*, Paris, France.

2018 Area chair, *International Conference on Computational Linguistics (COLING)*, Santa Fe, New Mexico.

Ad-hoc grant reviewing

2018 National Science Foundation.

Ad-hoc journal reviewing

2018 Cognition; Glossa.

2017 Journal of Memory and Language; Language; Language, Cognition & Neuroscience; Neuroscience & Biobehavioral Reviews; PLOS Computational Biology.

2016 Brain and Language; Cognition (x3); Frontiers in Human Neuroscience; Journal of Neuroscience.

2015 Cortex; Language, Cognition & Neuroscience; Phonology.

2014 Cognitive Science; Lingua.

2013 Phonology; Language and Cognitive Processes; The Mental Lexicon.

Ad-hoc conference reviewing

2018 Association for Computational Linguistics (ACL); The CUNY Sentence Processing Conference; Empirical Methods in Natural Language Processing (EMNLP); Society for Computation in Linguistics (SCiL).

2017 Association for Computational Linguistics (ACL); Computational Natural Language Learning (CoNLL); Empirical Methods in Natural Language Processing (EMNLP); Society for Computation in Linguistics (SCiL); Society for the Neurobiology of Language (SNL).

2016 Computational Natural Language Learning (CoNLL); CUNY Sentence Processing Conference; Deutsche Gesellschaft für Sprachwissenschaft; Empirical Methods in Natural Language Processing (EMNLP); European Association for Computational Linguistics (EACL); International Conference on Computational Linguistics (COLING); Penn Linguistics Colloquium; Usage-Based Linguistics Conference; Society for the Neurobiology of Language (SNL).

2015 Empirical Methods in Natural Language Processing (EMNLP); Israeli Association for Theoretical Linguistics.

2014 Penn Linguistics Colloquium.