

# Tal Linzen

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## ACADEMIC EMPLOYMENT

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- 2017–present    **Assistant Professor**  
Department of Cognitive Science (primary appointment)  
Department of Computer Science (joint appointment)  
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

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- 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 Pylkkänen, 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

## JOURNAL ARTICLES

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- 2020 Richard T. McCoy, Robert Frank & **Tal Linzen**. [Does syntax need to grow on trees? Sources of hierarchical inductive bias in sequence-to-sequence networks.](#) *Transactions of the Association for Computational Linguistics*.
- 2019 Afra Alishahi, Grzegorz Chrupała & **Tal Linzen**. [Analyzing and interpreting neural networks for NLP: A report on the first BlackboxNLP workshop.](#) *Journal of Natural Language Engineering*, 25(4), 543–557.
- 2019 **Tal Linzen**. [What can linguistics and deep learning contribute to each other? A response to Pater.](#) *Language*, 95(1), e99–e108.
- 2018 **Tal Linzen** & Yohei Oseki. [The reliability of acceptability judgments across languages.](#) *Glossa: a journal of general linguistics*, 3(1), 100.
- 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

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- 2020 Natalia Talmina & **Tal Linzen**. [Neural network learning of the Russian genitive of negation: optionality and structure sensitivity](#). *Proceedings of the Society for Computation in Linguistics (SCiL)* 3, 21.
- 2019 Grusha Prasad, Marten van Schijndel & **Tal Linzen**. [Using priming to uncover the organization of syntactic representations in neural language models](#). In *Proceedings of the 23rd Conference on Computational Natural Language Learning (CoNLL)*, pages 66–76. (Honorable mention for Best Paper Award for Research Inspired by Human Language Learning and Processing.)
- 2019 Marten van Schijndel, Aaron Mueller & **Tal Linzen**. [Quantity doesn't buy quality syntax with neural language models](#). In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP 2019)*, pages 5835–5841.
- 2019 R. Thomas McCoy, Ellie Pavlick & **Tal Linzen**. [Right for the wrong reasons: diagnosing syntactic heuristics in natural language inference](#). In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 3428–3448.
- 2019 Brenden Lake, **Tal Linzen** & Marco Baroni. [Human few-shot learning of compositional instructions](#). In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*, pages 611–616.
- 2019 Najoung Kim, Roma Patel, Adam Poliak, Alex Wang, Patrick Xia, R. Thomas McCoy, Ian Tenney, Alexis Ross, **Tal Linzen**, Benjamin Van Durme, Samuel R. Bowman, Ellie Pavlick. [Probing what different NLP tasks teach machines about function word comprehension](#). In *Proceedings of the Eighth Joint Conference on Lexical and Computational Semantics (\*SEM 2019)*, pages 235–249. (Best Paper Award.)
- 2019 Shauli Ravfogel, Yoav Goldberg & **Tal Linzen**. [Studying the inductive biases of RNNs with synthetic variations of natural languages](#). In *Proceedings of the 17th Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, pages 3532–3542.
- 2019 R. Thomas McCoy, **Tal Linzen**, Ewan Dunbar & Paul Smolensky. [RNNs implicitly implement tensor product representations](#). In *International Conference on Learning Representations (ICLR) 2019*.
- 2019 R. Thomas McCoy & **Tal Linzen**. [Non-entailed subsequences as a challenge for natural language inference](#). In *Proceedings of the Society for Computation in Linguistics (SCiL) 2019* (extended abstract).
- 2019 Marten van Schijndel & **Tal Linzen**. [Can entropy explain successor surprisal effects in reading?](#) In *Proceedings of the Society for Computation in Linguistics (SCiL) 2019*.

- 2018 Marten van Schijndel & **Tal Linzen**. [A neural model of adaptation in reading](#). In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*, pages 4704–4710.
- 2018 Rebecca Marvin & **Tal Linzen**. [Targeted syntactic evaluation of language models](#). In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*, pages 1192–1202.
- 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 21st 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. (Finalist for Best Paper Award.)

- 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)

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- 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](#). In Sherry Hucklebridge and Max Nelson (eds.), *Proceedings of the 48th Annual Meeting of the North East Linguistic Society (NELS 48)*, pages 207–220.
- 2018 Itamar Kastner & **Tal Linzen**. [A morphosyntactic inductive bias in artificial language learning](#). In Sherry Hucklebridge and Max Nelson (eds.), *Proceedings of the 48th Annual Meeting of the North East Linguistic Society (NELS 48)*, pages 81–90.
- 2014 **Tal Linzen** & Gillian Gallagher. [The timecourse of generalization in phonotactic learning](#). In John Kingston, Claire Moore-Cantwell, Joe Pater, and Robert Staubs (eds.), *Proceedings of 2013 Annual Meeting on Phonology*.

## FUNDING

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- 2019–2023 Tal Linzen (PI). [Inductive biases for the acquisition of syntactic transformations in neural networks](#). National Science Foundation (BCS-1920924; collaborative award with Robert Frank, Yale).
- 2019–2023 Tal Linzen (PI) and Yoav Goldberg (PI). *Large-scale neural networks as models of human syntactic knowledge*. United States – Israel Binational Science Foundation (award 2018284).
- 2019–2024 Christopher Honey (PI) and Tal Linzen (Co-Investigator). [Integrating and separating information sequences in the human cerebral cortex](#). National Institute of Mental Health (R01MH119099).
- 2019–2020 Tal Linzen (PI). *Syntactic evaluation of neural language models with applications to text entry*. [Google Faculty Research Award](#).
- 2018–2019 Tal Linzen (PI) and Tom McCoy. *Interactive visualizations for computational concepts in cognition*. JHU Center for Educational Resources Technology Fellowship Grant.

## INVITED PRESENTATIONS

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[Upcoming talks in brackets]

- [2020] Invited speaker, The 28th International Conference on Computational Linguistics (COLING'2020), Barcelona, September 15–18.
- [2020] Invited speaker, Architectures and Mechanisms of Language Processing (AMLaP), Potsdam, Germany, September 3–5.
- [2020] Cognitive Science Colloquium, University of Maryland, College Park, April 2.
- [2020] Data Science Colloquium, University of California, San Diego, February 11.
- [2020] Linguistics Colloquium, University of California, San Diego, February 10.
- 2020 *How well do neural NLP systems generalize?* NLP Seminar, University of California, Berkeley, January 23.
- 2020 *What inductive biases enable human-like syntactic generalization?* Linguistics Colloquium, Stanford University, January 21.
- 2019 *Psycholinguistics and deep learning.* Lecture at the Brains, Minds, and Machines summer course, Woods Hole, MA, August 24.
- 2019 *What inductive biases enable human-like syntactic generalization?* Keynote talk, The 24th Conference on Formal Grammar, Riga, Latvia, August 11.
- 2019 *How well do neural NLP systems generalize?* Invited talk, RepEval: The Third Workshop on Evaluating Vector Space Representations for NLP (co-located with NAACL 2019), Minneapolis, MN, June 6.
- 2019 *What can psycholinguistics and deep learning contribute to each other?* Computational Psycholinguistics Seminar, Waseda University, Tokyo, May 24.
- 2019 *Assessing syntactic generalization in artificial neural networks:*  
Keynote talk, Midwest Speech and Language Days 2019, Chicago, May 3.  
Seminar talk, RIKEN Center for Advanced Intelligence Project, Tokyo, May 24.
- 2019 *Syntactic generalization in artificial neural networks.* Cognitive Talk Series, Princeton University, April 24.
- 2019 *Linguistics in the age of deep learning.* CompLang Seminar on Language and Computation, MIT, April 18.
- 2019 *Psycholinguistic evaluation of neural NLP systems.* Language Technologies Institute Colloquium, Carnegie Mellon University, Pittsburgh, PA, February 8.
- 2019 *Linguistics as a part of cognitive science.* Talk given as a part of “MarantzFest”, a conference honoring Alec Marantz, January 6.
- 2018-9 *Using cognitive science to evaluate and interpret neural language models:*  
Google (NYC), January 7, 2019.  
Allen Institute for Artificial Intelligence (Seattle, WA), December 14, 2018.  
Microsoft Research (Redmond, WA), December 13, 2018.
- 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:*  
 Linguistics Colloquium, Yale University, December 10.  
 Linguistics Speaker Series, Georgetown University, October 19.  
 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.* Keynote 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

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- 2019 *Compositionality in Brains and Machines*, Lorentz Center, Leiden, The Netherlands, August 5–9.
- 2019 *Understanding Human and Machine Intelligence: A Workshop on Cognitive Science and AI*, Facebook AI Research, New York City, May 28–29.
- 2019 *Language as goal-directed sequential behavior*, Shonan Village Center, Japan, May 20–23.
- 2017 *Meaning in Context (MIC 3)*, Stanford University, Palo Alto, California, September 11–16.

## CONFERENCE AND WORKSHOP PRESENTATIONS WITHOUT PROCEEDINGS

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- [2020] Grusha Prasad & **Tal Linzen**. Rapid syntactic adaptation in SPR: detectable, but only with many participants. Oral presentation, *33rd CUNY Conference on Human Sentence Processing*, Amherst, Massachusetts, March 19–21.



- [2020] Suhas Arehalli & **Tal Linzen**. Neural language models capture some, but not all, agreement attraction effects. Poster, *33rd CUNY Conference on Human Sentence Processing*, Amherst, Massachusetts, March 19–21.
- 2020 Richard T. McCoy, **Tal Linzen**, Ewan Dunbar & Paul Smolensky. Tensor Product Decomposition Networks: Uncovering representations of structure learned by neural networks. Poster, *Society for Computation in Linguistics 2020* (based on paper published in ICLR 2019), New Orleans, January 2–5.
- 2019 Najoung Kim & **Tal Linzen**. Compositionality as directional consistency in sequential neural networks. Poster, *NeurIPS Workshop on Context and Compositionality in Biological and Artificial Neural Systems*, Vancouver, Canada, December 14.
- 2019 Paul Soulos, Richard T. McCoy, **Tal Linzen** & Paul Smolensky. Uncovering the compositional structure of vector representations with Role Learning Networks. Spotlight presentation, *NeurIPS Workshop on Context and Compositionality in Biological and Artificial Neural Systems*, Vancouver, Canada, December 14.
- 2019 Grusha Prasad & **Tal Linzen**. How much harder are hard garden path sentences than easy ones? Poster, *41st Annual Conference of the Cognitive Science Society*, Montreal, July 24–27.
- 2019 Grusha Prasad & **Tal Linzen**. Reassessing the evidence for syntactic adaptation from self-paced reading studies. Poster, *32nd CUNY Conference on Human Sentence Processing*, Boulder, Colorado, March 29–31.
- 2019 Grusha Prasad, Marten van Schijndel & **Tal Linzen**. Using syntactic priming to investigate how recurrent neural networks represent syntax. Poster, *32nd CUNY Conference on Human Sentence Processing*, Boulder, Colorado, March 29–31.
- 2019 Rebecca Marvin & **Tal Linzen**. Targeted syntactic evaluation of language models. Oral presentation, *Society for Computation in Linguistics 2019* (based on paper published in EMNLP 2018), New York City, January 3–6.
- 2019 Kristina Gulordava, Piotr Bojanowski, Edouard Grave, **Tal Linzen** & Marco Baroni. Colorless green recurrent networks dream hierarchically. Oral presentation, *Society for Computation in Linguistics 2019* (based on paper published in NAACL 2018), New York City, January 3–6.
- 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, R. Thomas 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

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2019	Finalist, Excellence in Teaching Award: Graduate Teaching and Mentoring, Krieger School of Arts and Science, Johns Hopkins University
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

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### Johns Hopkins University

2017–present	AS.050.819: <i>Research Seminar in Psycholinguistics</i> (every semester)
Fall 2019	AS.050.360/660: <i>Computational Psycholinguistics</i> AS.050.202: <i>Introduction to Computational Cognitive Science</i>
Spring 2019	AS.050.360/660: <i>Computational Psycholinguistics</i>
Fall 2018	AS.050.202: <i>Introduction to Computational Cognitive Science</i>
Fall 2017	AS.050.101: <i>Cognition</i>

### New York University

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

### Tel Aviv University

2008	<i>Foundations of Theoretical Linguistics</i> (offered by the Linguistics department). Teaching assistant for Aya Meltzer and Lior Laks.
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### Other

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

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### Postdoctoral researchers

2017–2019      Marten van Schijndel (Assistant Professor of Linguistics at Cornell, 2019–present)

### PhD advisees

2019–present      Karl Mulligan

2018–present      Suhas Arehalli

2017–present      Grusha Prasad

2017–present      Tom McCoy (NSF Graduate Research Fellow, co-advised by Paul Smolensky)

### Master's students

2019–present      Junghyun Min

### Undergraduate research

2019–present      Michael Lepori (Computer Science senior thesis)

2018–2019      Nicholas Douglass, Daniela Torres

## SERVICE

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### Departmental service (JHU Cognitive Science)

2019–present      Chair, colloquium committee

2017–2019      Co-chair, colloquium committee

2017–2019      Brown Bag talk series organizer (except Spring 2018)

### JHU Graduate Board Oral exams

2018              Hsiang-Yun Sherry Chien (Psychological and Brain Sciences)

2018              Chenxi Liu (Computer Science)

2017              Adi Renduchintala (Computer Science)

### Dissertation committees

2019–present      Mariya Toneva (Carnegie Mellon University, Machine Learning and Neural Computation)

2019–present      Jane Lutken (JHU Cognitive Science)

2019              Dingquan Wang (JHU Computer Science)

### **Conference and workshop organization**

- 2019            *Context and Compositionality in Biological and Artificial Neural Systems*, co-located with the 2019 Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada, December 14 (co-organizer).
- 2019            *BlackboxNLP: Analyzing and interpreting neural networks for NLP*, co-located with the Association for Computational Linguistics (ACL), Florence, Italy, August 1 (co-organizer).
- 2019            *The 2019 Workshop on Cognitive Modeling and Computational Linguistics*, co-located with the North American Chapter of the Association for Computational Linguistics (NAACL), Minneapolis, MN, June 7 (co-organizer).
- 2018            *BlackboxNLP: Analyzing and interpreting neural networks for NLP*, 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 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, April 3 (co-organizer).

### **Editorial responsibilities for journals**

- 2018–2019       Standing reviewing team member, *Transactions of the Association for Computational Linguistics*.

### **Editorial responsibilities for scientific meetings**

- [2020]            Co-Chair, *CoNLL 2020 (The SIGNLL Conference on Computational Natural Language Learning)*, Punta Cana, the Dominican Republic, November 11–12.
- 2019            Area Chair (Language and Computation), *European Summer School in Logic, Language and Information*, Riga, Latvia, August 5–16.
- 2018            Technical chair, *Learning Language in Humans and in Machines*, Paris, France, July 5–6.
- 2018            Area chair, *27th International Conference on Computational Linguistics (COLING 2018)*, Santa Fe, New Mexico, August 20–26.

### **Ad-hoc grant reviewing**

- 2018–present    National Science Foundation.

### **Ad-hoc journal reviewing**

- 2020            *Journal of Language Modeling*.
- 2019            *Journal of Memory and Language*; *Language, Cognition & Neuroscience*; *Proceedings of the National Academy of Sciences*; *Trends in Cognitive Sciences*.
- 2018            *Cognition*; *Glossa*; *Language, Cognition & Neuroscience*.

- 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**

- 2020 The CUNY Sentence Processing Conference.
- 2019 Association for Computational Linguistics (ACL); Cognitive Science Society; Empirical Methods in Natural Language Processing (EMNLP); Joint Conference on Lexical and Computational Semantics (\*SEM); Workshop on Evaluating Vector Space Representations for NLP (RepEval); Society for Computation in Linguistics (SCiL); The CUNY Sentence Processing Conference.
- 2018 Association for Computational Linguistics (ACL); The CUNY Sentence Processing Conference; Empirical Methods in Natural Language Processing (EMNLP); International Conference on Learning Representations (ICLR); 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.