

## LT2313: Computational Semantics (CS)

### Reading list

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- Marco Baroni and Gemma Boleda. 2014. Distributional semantics. Lectures notes: Cs 388: Natural language processing, University of Texas at Austin.
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- Lawrence W. Barsalou. 2008. Grounded cognition. *Annual Review of Psychology*, 59:617–645.
- Emily M. Bender and Alexander Koller. 2020. Climbing towards nlu: On meaning, form, and understanding in the age of data. OpenReview Preprint, anonymous preprint under review.
- Yoshua Bengio, Réjean Ducharme, Pascal Vincent, and Christian Janvin. 2003. A neural probabilistic language model. *Journal of Machine Learning Research*, 3(6):1137–1155.
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- Patrick Blackburn and Johan Bos. 2005. *Representation and inference for natural language. A first course in computational semantics*. CSLI Publications.
- Samuel Bowman and Xiaodan Zhu. 2019. Deep learning for natural language inference. In *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Tutorials*, pages 6–8, Minneapolis, Minnesota. Association for Computational Linguistics.
- Samuel R. Bowman, Gabor Angeli, Christopher Potts, and Christopher D. Manning. 2015. A large annotated corpus for learning natural language inference. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Association for Computational Linguistics.
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- Alexis Conneau, Douwe Kiela, Holger Schwenk, Loïc Barrault, and Antoine Bordes. 2017. Supervised learning of universal sentence representations from natural language inference data. *arXiv*, arXiv:1705.02364 [cs.CL]:1–12.
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- J. van Eijck and Christina Unger. 2010. *Computational semantics with functional programming*. Cambridge University Press, Cambridge.
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- John R. Firth. 1957. A synopsis of linguistic theory 1930–1955. *Studies in linguistic analysis*, pages 1–32.
- Mehdi Ghanimifard and Simon Dobnik. 2017. Learning to compose spatial relations with grounded neural language models. In *Proceedings of IWCS 2017: 12th International Conference on Computational Semantics*, pages 1–12, Montpellier, France. Association for Computational Linguistics.
- Noah D. Goodman and Michael C. Frank. 2016. Pragmatic language interpretation as probabilistic inference. *Trends in Cognitive Sciences*, 20(11):818–829.
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- Steven Hewitt. 2017. Textual entailment with tensorflow: Using neural networks to explore natural language. Tutorial and code, O’Reilly and TensorFlow.
- Felix Hill, Roi Reichart, and Anna Korhonen. 2015. Simlex-999: Evaluating semantic models with (genuine) similarity estimation. *Computational Linguistics*, 41(4):665–695.
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- Mikael Kågebäck and Hans Salomonsson. 2016. Word sense disambiguation using a bidirectional lstm. In *5th Workshop on Cognitive Aspects of the Lexicon (CogALex)*. Association for Computational Linguistics.
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- Omer Levy, Yoav Goldberg, and Ido Dagan. 2015. Improving distributional similarity with lessons learned from word embeddings. *Transactions of the Association for Computational Linguistics*, 3:211–225.
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- Tomas Mikolov, Kai Chen, Greg Corrado, and Jeffrey Dean. 2013a. Efficient estimation of word representations in vector space. ArXiv preprint arXiv:1301.3781.
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- Radim Řehůřek. 2019. models.word2vec – Word2vec embeddings. Technical report, Gensim.
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- Carina Silberer and Mirella Lapata. 2014. Learning grounded meaning representations with autoencoders. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics*, pages 721–732, Baltimore, Maryland, USA. Association for Computational Linguistics.
- Matthew Stone. 2016. Semantics and computation. In Maria Aloni and Paul Dekker, editors, *The Cambridge Handbook of Formal Semantics*, Cambridge Handbooks in Language and Linguistics, chapter 25, pages 775–800. Cambridge University Press, Cambridge, UK.
- Aarne Talman, Anssi Yli-Jyrä, and Jörg Tiedemann. 2019. Sentence embeddings in nli with iterative refinement encoders. *Natural Language Engineering*, 25(4):467–482.
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