Johannes Bjerva

Personal Information

Full name: Johannes Bjerva

Birth: 21 March 1990, Oslo, Norway Nationalities: Norwegian and Finnish

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Education

2013 - 2017	Ph.D. Computational Semantics				
(08/2017	Center for Language and Cognition Groningen, University of Groningen				
expected)	Thesis: 'Lexical Processing with Deep Neural Networks: Multitask Lear				
	and Multilingual Approaches'				
	Supervisors: Prof. Johan Bos and Dr. Barbara Plank				
2012 - 2013	M.A. Computational Linguistics				
	Department of Linguistics, Stockholm University, Sweden				
2009 - 2012	B.A. Computational Linguistics				
	Department of Linguistics, Stockholm University, Sweden				
2008 - 2009	Japanese language and culture				
	Stockholm University, Sweden				
	Ritsumeikan University, Kyoto, Japan (summer school)				
Miscellaneous					
2017	DeepLearn-2017, Bilbao, Spain				
2016	European Summer School in Logic Language and Information				
	(ESSLLI), Bolzano, Italy				
2015	Lisbon Machine Learning School (LxMLS), Instituto Superior Técnico				
	Workshop Big Data, University of Groningen				
	Workshop Numerical Python, University of Groningen				

Professional Experience

2012 - 2013	Software developer Slagkryssaren Ltd., Stockholm, Sweden
2011 - 2012	Research assistant
2011 – 2012	Department of Linguistics, Stockholm University, Sweden
2010 - 2011	Phonetic transcriber (Norwegian)
	Acapela Group, Stockholm, Sweden

Publications

Journal papers and book chapters

- Bjerva, J. (invited, in review). Quantifying the Effects of Multilinguality in NLP Sequence Prediction Tasks. Northern European Journal of Language Technology (NEJLT), n, x-y.
- Bos, J., Basile, V., Evang, K., Venhuizen, N. J. & Bjerva, J. (2017). The Groningen Meaning Bank. In N. Ide & J. Pustejovsky (Eds.), *Handbook of Linguistic Annotation* (pp. 463–496). Dordrecht: Springer Netherlands. doi:10.1007/978-94-024-0881-2_18

Proceedings (peer-reviewed)

- Bjerva, J., Grigonytė, G., Östling, R. & Plank, B. (submitted). Neural Networks and Spell Checking for Native Language Identification.
- Östling, R. & Bjerva, J. (2017). SU-RUG at the CoNLL-SIGMORPHON 2017 shared task: Morphological Inflection with Attentional Sequence-to-Sequence Models. In *Proceedings of the 2017 Meeting of SIGMORPHON*. Vancouver, Canada: Association for Computational Linguistics.
- Bjerva, J. (2017). Will my auxiliary tagging task help? Estimating Auxiliary Tasks Effectivity in Multi-Task Learning. In *Proceedings of the 21st Nordic Conference on Computational Linguistics, NoDaLiDa, 22-24 May 2017, Gothenburg, Sweden* (131, pp. 216–220). Linköping University Electronic Press, Linköpings universitet. **Best short paper!**
- Bjerva, J. & Östling, R. (2017a). Cross-lingual Learning of Semantic Textual Similarity with Multilingual Word Representations. In *Proceedings of the 21st Nordic Conference on Computational Linguistics, NoDaLiDa, 22-24 May 2017, Gothenburg, Sweden* (131, pp. 211–215). Linköping University Electronic Press, Linköpings universitet.
- Bjerva, J. & Östling, R. (2017b). Multilingual Word Representations for Semantic Textual Similarity. In *Proceedings of SemEval 2017: International Workshop on Semantic Evaluation*. Vancouver, Canada.
- Abzianidze, L., Bjerva, J., Evang, K., Haagsma, H., van Noord, R., Ludmann, P., ... Bos, J. (2017). The Parallel Meaning Bank: Towards a Multilingual Corpus of Translations Annotated with Compositional Meaning Representations. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics: Volume 2, Short Papers* (pp. 242–247). Valencia, Spain: Association for Computational Linguistics. Retrieved from http://aclweb.org/anthology/E17-2039
- Bjerva, J., Plank, B. & Bos, J. (2016). Semantic Tagging with Deep Residual Networks. In *Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers* (pp. 3531–3541). Osaka, Japan: The COLING 2016 Organizing Committee. Retrieved from http://aclweb.org/anthology/C16-1333
- Bjerva, J. & Börstell, C. (2016). Morphological Complexity Influences Verb-Object Order in Swedish Sign Language. In Proceedings of the Workshop on Computational Linguistics for Linguistic Complexity (CL4LC) (pp. 137–141). Osaka, Japan: The COLING 2016 Organizing Committee. Retrieved from http://aclweb.org/anthology/W16-4116

- Bjerva, J. (2016). Byte-based Language Identification with Deep Convolutional Networks. In *Proceedings of the Third Workshop on NLP for Similar Languages, Varieties and Dialects* (VarDial3) (pp. 119–125). Osaka, Japan: The COLING 2016 Organizing Committee. Retrieved from http://aclweb.org/anthology/W16-4816
- Bjerva, J., Bos, J. & Haagsma, H. (2016). The Meaning Factory at SemEval-2016 Task 8: Producing AMRs with Boxer. In *Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval-2016)* (pp. 1179–1184). San Diego, California: Association for Computational Linguistics. doi:10.18653/v1/S16-1182
- Haagsma, H. & Bjerva, J. (2016). Detecting novel metaphor using selectional preference information. In *Proceedings of the Fourth Workshop on Metaphor in NLP* (pp. 10–17). San Diego, California: Association for Computational Linguistics. doi:10.18653/v1/W16-1102
- Busger op Vollenbroek, M., Carlotto, T., Kreutz, T., Medvedeva, M., Pool, C., Bjerva, J., ... Nissim, M. (2016). GronUP: Groningen User Profiling. In *Proceedings of CLEF 2016*.
- Bjerva, J. & Praet, R. (2015). Word Embeddings Pointing the Way for Late Antiquity. In 9th SIGHUM Workshop on Language Technology for Cultural Heritage, Social Sciences and Humanities (LaTeCH 2015) (pp. 53–57). Association for Computational Linguistics.
- Bjerva, J. (2014). Multi-class Animacy Classification with Semantic Features. In *Proceedings of the Student Research Workshop at the 14th Conference of the European Chapter of the Association for Computational Linguistics* (pp. 65–75). Gothenburg, Sweden: Association for Computational Linguistics. doi:10.3115/v1/E14-3008
- Bjerva, J., Bos, J., Van der Goot, R. & Nissim, M. (2014). The Meaning Factory: Formal Semantics for Recognizing Textual Entailment and Determining Semantic Similarity. In *Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014)* (pp. 642–646). Dublin, Ireland.

Reviewing

2017	EMNLP 2017 (Copenhagen, Denmark), CoNLL 2017 (Vancouver, Canada),				
	ACL 2017 (Vancouver, Canada), IJCNLP 2017 (Taipei, Taiwan),				
	SemEval 2017 Task 1 (Vancouver, Canada), VarDial 2017 (Valencia, Spain),				
	NoDaLiDa 2017 (Gothenburg, Sweden)				
2016	EACL 2017 (Valencia, Spain), COLING 2016 (Osaka, Japan), VarDial 2016				
	(Osaka, Japan), SemEval-2016 Task 8 (San Diego, California)				
2014	The Handbook of Linguistic Annotation (Springer), SemEval-2014 Task 1				
	(Dublin, Ireland), 35th TABU Dag Conference (Groningen, Netherlands).				

Teaching

Summer 2016 Learning from Data	: A Foundational Cours	se for Linguistics	$(ML\ course)$
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With Dr. Malvina Nissim

30 students, taught at ESSLLI, Bolzano, Italy.

Spring 2016 Digital Humanities: Hands on Data (LHU002P05)

With Dr. Malvina Nissim and Raf Praet

Lecture and lab on Digital Humanities in Late Antiquity

Bachelor level, 21 students

Autumn 2015 Machine Learning (LIX016M05 – Learning from Data)

With Dr. Malvina Nissim and Hessel Haagsma

Lecture and lab on Artificial Neural Networks and Deep Learning

Master level, 12 students

Spring 2015 Python programming (LIX016P05 – Advanced programming)

With Prof. Dr. Gertjan van Noord and Dr. Leonie Bosveld-de Smet Bachelor level, 50 students, taught in Dutch, main course responsibility

Spring 2014 Python programming (LIX016P05 – Advanced programming)

With Kilian Evang and Dr. Leonie Bosveld-de Smet

Bachelor level, 45 students

Miscellaneous

In the media

'University of Groningen to start Master's degree programme in Digital Humanities', University of Groningen Unifocus film (17-02-2016) https://youtu.be/7AhbJljFpRI

Natural languages

English (C2), Norwegian (Native), Swedish (\sim C1), Dutch (\sim C1), Finnish (\sim A2), Japanese (\sim A2), Swedish Sign Language (\sim A1).

Certificates

Cambridge Certificate of Proficiency in English (CPE, C2 level, Grade A)

Other relevant competencies

numpy, scipy, make, keras, git, svn, latex, unix, osx

Last updated: 4th July 2017