Jeremy Barnes

Curriculum Vitae

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Education

2015–2019	**PhD in Computational Linguistics**, *Pompeu Fabra University*, Barcelona. Cum Laude / International Mention
2017–2018	**Research Stay**, *University of Stuttgart*, Stuttgart.
2014–2015	**Masters in Linguistics**, *Pompeu Fabra University*, Barcelona, *GPA – 9.23*. Cum Laude
2001–2007	**Bachelors in Linguistics**, *The University of Houston*, Houston, *GPA – 8.5*. Summa cum Laude

Doctoral Thesis

Title	*Cross-lingual Sentiment Analysis for Under-resourced Languages*
Supervisors	Toni Badia & Patrik Lambert
Description	This thesis explored techniques which require a minimal amount of parallel data to perform sentiment analysis in a resource-poor target language using only annotated sentiment data in a resource-rich language. I performed experiments at several levels of granularity, achieving state-of-the-art results on several tasks and also showed that the techniques developed could be used for domain adaptation.

Teaching Experience

2020	**Neural Methods in Natural Language Processing**, *University of Oslo*, Oslo. I am currently contributing to the planning and creation of course materials, and will give lectures and grade assignments.
2018	**Invited Lecturer, Sentiment Analysis for Big Data**, *Center for Language and Computation, University of Barcelona*, Barcelona. I gave a 3-hour lecture on basics of sentiment classification, state-of-the-art methods, and current challenges for a Master's level NLP program.
2015–2018	**Information Technology**, *Pompeu Fabra University*, Barcelona. I acted as assistant lecturer for the lab sessions in a mandatory Bachelor's course. I ran the lab sessions, where students humanities students were introduced to concepts of information technology, and graded assignments, as well as the final exams.
2015–2017	**Language and Technology: Case Studies**, *Pompeu Fabra University*, Barcelona. I acted as assistant lecturer for the lab sessions in an elective Bachelor's course. I ran the lab sessions, which concentrated on introducing instances of language technology, and graded assignments. I additionally created pedagogical material (slides and small code exercises) in collaboration with the main lecturers.

2017   **Translation Technology**, *Pompeu Fabra University*, Barcelona.
       I acted as assistant lecturer for the lab sessions in a mandatory Bachelor's course. I ran
       the practical sessions, where we introduced translation students to basic ideas of corpus
       linguistics, CAT tools, translation memories, and text processing.

2017   **Affective Computing and Emotion Analysis**, *University of Stuttgart*, Stuttgart.
       I served as a teaching assistant for this Master's course. I helped organize and grade exams.

Supervision

2019-2020   **Egil Rønningstad**, *Master's Thesis: Fine-grained Sentiment Analysis for Low-resource Languages*, University of Oslo.
            Co-supervision with Lilja Øvrelid.

2019   **Irean Navas Alejo**, *Master's Thesis: Cross-lingual Approaches to Fine-grained Emotion Analysis*, Pompeu Fabra University.
       Co-supervision with Toni Badia.

2018   **Àlex R. Atrio**, *Master's Thesis: Reordering for Cross-lingual Sentiment Analysis*, Pompeu Fabra University.
       Co-supervision with Toni Badia.

2017   **Yibing Yang**, *Master's Thesis: Extraction of Sentiment Aspects in Catalan*, Pompeu Fabra University.
       Co-supervision with Toni Badia.

Publications

Jeremy Barnes and Roman Klinger. 2019. *Embedding Projection for Targeted Cross-Lingual Sentiment: Model Comparisons and a Real-World Study*. Journal of Artificial Intelligence Research.

Jeremy Barnes, Erik Velldal, Lilja Øvrelid. 2019. *Improving Sentiment Analysis with Multi-task Learning of Negation*. Journal Natural Language Engineering - Special Issue on Processing Negation.

Jeremy Barnes, Lilja Øvrelid, Erik Velldal. 2019. *Sentiment Analysis Is Not Solved! Assessing and Probing Sentiment Classification*. BlackBoxNLP Workshop at ACL 2019. Pages 12–23.

Petter Mæhlum, Jeremy Barnes, Lilja Øvrelid, Erik Velldal. 2019. *Annotating evaluative sentences in Norwegian*. NoDaLiDa 2019.

Jeremy Barnes, Samia Touileb, Lilja Øvrelid, Erik Velldal. 2019. *Lexicon Information in Neural Sentiment Analysis: a Multi-task Learning Approach*. NoDaLiDa 2019.

Çagri Çöltekin, Jeremy Barnes. 2019. *Neural and Linear Pipeline Approaches to Cross-lingual Morphological Analysis*. VarDial Workshop 2019.

Àlex R. Atrio, Toni Badia, Jeremy Barnes. 2019. *On the Effect of Word Order on Cross-lingual Sentiment Analysis*. SEPLN 2019.

Jeremy Barnes. 2019. *LTG-Oslo Hierarchical Multi-task Network: The importance of negation for document-level sentiment in Spanish*. NEGES Workshop at SEPLN 2019.

Jeremy Barnes, Roman Klinger, and Sabine Schulte im Walde. 2018. *Bilingual Sentiment Embeddings: Joint Projection of Sentiment Across Languages*. ACL 2018. Pages 2483–2493.

Jeremy Barnes, Roman Klinger, and Sabine Schulte im Walde. 2018. *Projecting Embeddings for Domain Adaption: Joint Modeling of Sentiment Analysis in Diverse Domains*. COLING 2018. Pages 818-–830.

Jeremy Barnes, Patrik Lambert, and Toni Badia. 2018. *MultiBooked: A Corpus of Basque and Catalan Hotel Reviews Annotated for Aspect-level Sentiment Classification*. LREC 2018. Pages 656–660.

Jeremy Barnes, Roman Klinger, and Sabine Schulte im Walde. 2017. *Assessing State-of-the-art Sentiment Models on State-of-the-art Sentiment Datasets.*. WASSA 2017. Pages 2–12.

Hendrik Schuff, Jeremy Barnes, Julian Mohme, Sebastian Padó, and Roman Klinger. 2017. *Annotation, Modelling and Analysis of Fine-grained Emotions on a Stance and Sentiment Detection Corpus*. WASSA 2017. Pages 13–23.

Jeremy Barnes, Patrik Lambert, and Toni Badia. 2016. *Exploring Distributional Representations and Machine Translation for Aspect-based Cross-lingual Sentiment Classification*. COLING 2016. Pages 1613–1623.

Awards and Fellowships

2016–2019	**SGR-DTCL Predoctoral Scholarship**, *Pompeu Fabra University*, Barcelona.
2017–2018	**SFB Collaborative Research Grant**, *University of Stuttgart*, Stuttgart.
2005–2006	**DAAD Leipzig/Houston Scholarship**, *University of Leipzig*, Leipzig.
2001–2006	**Academic Merit Scholarship**, *University of Houston*, Houston.

Computer skills

Systems	Linux, Windows
Languages	Python, Java, R
Libraries	Pytorch, Tensorflow, Theano, Keras, Sklearn, Numpy, Matplolib, NLTK, Freeling, Stanford CoreNLP, IXA pipes, Moses, OpenNMT

Languages

English	**Mothertongue**	
Spanish	**C.2**	*Excellent written and spoken level*
Catalan	**C.1**	*Good written and spoken level*
Basque	**C.1**	*Good written and spoken level*
German	**B.2**	*Good written level and adequate spoken level*
Norwegian	**B.2**	*Good written level and adequate spoken level*