

Maria Barrett

Postdoc

-  January 14, 1982
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Education

2018 | PhD, University of Copenhagen

2009 | MSc in IT, IT University of Copenhagen

2006 | BA in Media Science, University of Southern Denmark

Awards

- 2019 | Ellis PhD Award
- 2018 | CoNLL special best paper award

Grants

- 2019 | Villum International Postdoc earmarked for women, kr. 2.5 mio.
- 2018 | With Anders Søgaard: Facebook Global Literacy Challenge Research Award, \$30.000
- 2016 | Martin Levys Mindelegat, kr 8.100
- 2016 | Prof. Ludvig Wimmer og Hustrus Legat, kr. 10.000
- 2016 | Augustinus Fonden, kr. 12.500
- 2016 | COST trainee grant, €1066
- 2016 | Prof., dr.phil. Viggo Brøndal og hustrus legat, kr. 15.000
- 2016 | Oticon fonden, kr. 8.500
- 2014 | AAAI Doctoral Consortium travel grant, \$1.500

Work Experience

- 2018– Postdoc University of Copenhagen
Dept. of Computer Science, Faculty of Science
- 2014–2018 PhD student University of Copenhagen
Centre for Language Technology, Faculty of Humanities
Title: *Improving natural language processing with human data : Eye tracking and other data sources reflecting cognitive text processing.*
Supervisor: Prof., Dr.Phil., PhD Anders Søgaard
Research stay: 3 months at School of Informatics, University of Edinburgh, Scotland. Host: Prof., PhD Frank Keller
- 2014-2014 Student assistant University of Copenhagen
Maintain lab equipment and instruct users in Experience Lab, a research lab for measuring human responses
- 2014-2014 Student assistant University of Copenhagen
Semantic annotation
- 2011-2011 Communications consultant Ai-gruppen
Make publication about requirements for buildings from quantitative interviews
- 2008-2011 eAccessibility advisor Sensus
Web Content Accessibility Guidelines 2.0, teaching, user testing, tests using assistive technologies
- 2009-2010 Scientific assistant IT University of Copenhagen
Implement a web-interface for people with cognitive impairments
- 2008 – 2009 Scientific assistant IT University of Copenhagen
plan and conduct eye tracking experiment

Academic work experience

- 2019 Organisation Committee member <http://wids.dk/>
Women in DataScience (WiDS) one-day conference
- 2019 Co-supervisor
Three MA theses, one MA student project, one BA student project
- 2019 Reviewing
ACL, AAAI, EMNLP, NoDaLiDa, ICLR
- 2018 Co-supervisor
Two MA thesis students
- 2018 Reviewing
COLING, WinLP
- 2017 Reviewing
WinLP@ACL and LLD@NIPS workshops
- 2015 Mentor
Monthly meetings with two MA students
- 2014-2015 Chair
internal biweekly talks at Centre for Language Technology, UCPH
- 2015 Supervisor
One MA student project

Academic teaching

Spring 2019	Datamining and Visualisation of Networked Communication 25% of 15 ECTS course.	MA level
Fall 2017	Cognitive Science III 50% of 7,5 ECTS course.	MA level
Fall 2015	Cognitive Science III 50% of 7.5 ECTS course.	MA level

Summer School courses

2018	Nordic Language Processing Laboratory winter school Skeikampen, Norway. January 29-31	
2016	Integrating Vision and Language training workshop Valletta, Malta. March 21-24	
2014	LXMLS machine learning summer school Lisbon, Portugal. July 22-29	
2009	COGAIN summer school on gaze, communication and interaction technology Tampere, Finland. July 27-31	

- 2019 Hollenstein, N., Barrett, M., Troendle, M., Bigiolli, F., Langer, N., & Zhang, C. (submitted). "Advancing NLP with Cognitive Language Processing Signals." arXiv preprint arXiv:1904.02682
- 2019 Barrett, M.; Hollenstein, N. (submitted). "Sequence labelling and classification with eye movements: Novel uses of eye-tracking data for natural language processing."
- 2019 Barrett, M.; Kementchedjhieva, Y.; Elazar, Y.; Elliott, D.; Søgaard, A. (2019). "Adversarial Removal of Demographic Attributes Revisited." In *EMNLP-IJCNLP* (pp. 6329–6334)
- 2018 Barrett, M.; Bingel, J.; Hollenstein, N.; Rei, M.; Søgaard, A. (2018). "Sequence classification with human attention." In *The SIGNLL Conference on Computational Natural Language Learning (CoNLL)* (pp. 302–12). *Special best paper award*
- 2018 Bingel, J; Barrett, M.; Klerke, S. (2018). "Predicting misreadings from gaze in children with reading difficulties." In *The 13th Workshop on Innovative Use of NLP for Building Educational Applications@NAACL* (pp. 24–34).
- 2018 Barrett, M.; Gonzalez-Garduño, A.; Frermann, L. & Søgaard, A. (2018). "Unsupervised induction of linguistic categories with records of reading, speaking, and writing." In *The 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*. (pp. 2028–2038).
- 2016 Barrett, M.; Keller, F. & Søgaard, A. (2016). "Cross-lingual transfer of correlations between parts of speech and gaze features." In *The 26th International Conference on Computational Linguistics (COLING): proceedings of COLING 2016: technical papers*. pp. 1330–1339.
- 2016 Bingel, J.; Barrett, M. & Søgaard, A. (2016) "Extracting token-level signals of syntactic processing from fMRI - with an application to PoS induction". In *ACL* (pp. 747–755).
- 2016 Barrett, M., Bingel, J., Keller, F., Søgaard, A. (2016) "Weakly supervised Part-of-Speech Induction from Eye-tracking Data". In *ACL* (pp. 579-584).
- 2015 Barrett, M., Agić, Z., and Søgaard, A. (2015) "The Dundee Treebank". In *Treebanks and Linguistic Theories (TLT14)* (pp. 242–248).
- 2015 Barrett, M., & Søgaard, A. (2015). "Using reading behavior to predict grammatical functions". In *Proc. of Workshop on Cognitive Aspects of Computational Language Learning (CogACLL) @EMNLP* (pp. 1–5).

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2015

Klerke, S., Castilho, S., Barrett, M., & Søgaard, A. (2015). "Reading metrics for estimating task efficiency with MT output". In *Proc. of Workshop on Cognitive Aspects of Computational Language Learning (CogACLL) @EMNLP* (pp. 6–13).

2015

Barrett, M., & Søgaard, A. (2015). "Reading behavior predicts syntactic categories". In *CoNLL 2015*, (pp. 345–249).

2010

San Agustin, J., Skovsgaard, H., Møllenbach, E., Barrett, M., Tall, M., Hansen, D. W., & Hansen, J. P. (2010). "Evaluation of a low-cost open-source gaze tracker". In *Proceedings of the 2010 Symposium on Eye-Tracking Research & Applications* (pp. 77-80). ACM

2009

Barrett, M., Skovsgaard, H., & San Agustin, J. (2009). "Performance evaluation of a Low-Cost gaze tracker for eye typing". In *Proceedings of Conference on Communication by Gaze Interaction*. Lyngby, Denmark: COGAIN (pp. 13-17).

Abstracts

2018

Barrett, Maria, Joachim Bingel, Sigrid Klerke & Laura Winther Balling. "Using Naturalistic Eye-Tracking Data to Understand Children's Reading Difficulties." In: *Journal of Eye Movement Research*. Poster to be presented at *Scandinavian Workshop on Applied Eye Tracking*.

2014

Barrett, Maria & Anders Søgaard (2014). "Modeling Eye Movements when Reading Microblogs". In: *AAAI 2015*.

Other

2019

Sigrid Klerke & Maria Barrett. "Hvordan kunstig intelligens bliver til læse- og skriveteknologier." In: Katja Sørensen Vilien, Helle Bundgaard Svendsen & Lene Storgaard Brok (Eds.) *Viden Om Literacy 28*, pp. 32-7.