

Maria Barrett

Postdoc

 January 14, 1982
 Stenhusvej 1, 3540 Lyngø
 maria.barrett@gmail.com
 +45 29722269
 mariabarrett.github.io

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

Work Experience

2020–	Postdoc Dept. of Computer Science	IT University of Copenhagen
2018–2020	Postdoc Dept. of Computer Science, Faculty of Science	University of Copenhagen
2014–2018	PhD student Centre for Language Technology, Faculty of Humanities Title: <i>Improving natural language processing with human data : Eye tracking and other data sources reflecting cognitive text processing.</i> Supervisor: Prof., Dr.Phil., PhD Anders Søgaard Research stay: 3 months at School of Informatics, University of Edinburgh, Scotland. Host: Prof., PhD Frank Keller	University of Copenhagen
2014–2014	Student assistant Maintain lab equipment and instruct users in Experience Lab, a research lab for measuring human responses	University of Copenhagen
2014–2014	Student assistant Semantic annotation	University of Copenhagen
2011–2011	Communications consultant Make publication about requirements for buildings from qualitative interviews	Ai-gruppen
2008–2011	eAccessibility advisor Web Content Accessibility Guidelines 2.0, teaching, user testing, tests using assistive technologies	Sensus
2009–2010	Scientific assistant Implement a web-interface for people with cognitive impairments	IT University of Copenhagen
2008 – 2009	Scientific assistant plan and conduct eye tracking experiment	IT University of Copenhagen

Academic teaching

Fall 2022	Advanced NLP 20% of 7.5 ECTS course	MA-level
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

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Academic work experience

2022–	External censoring Language technology and cognitive science	
2021	Reviewing TACL, LREV, WinLP	
2021	Main supervisor One MA student project	
2020	Reviewing ACL, WinLP, CONLL, PEOPLES@COLING, EACL	
2019	Organisation Committee member Women in DataScience (WiDS) one-day conference	http://wids.dk/
2019	Co-supervisor Three MA theses, one MA student project, one BA student project	
2019	Reviewing ACL, AACL, 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	

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

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Papers and articles

2022

Jakobsen, T. S. T., Barrett, M. J., Søgaard, A., & Lassen, D. D. "The Sensitivity of Annotator Bias to Task Definitions in Argument Mining." In *The Sixteenth Linguistic Annotation Workshop (LAW-XVI 2022)*

2022

Hollenstein, N., Barrett, M. J., & Björnsdóttir, M. "The Copenhagen Corpus of Eye Tracking Recordings from Natural Reading of Danish Texts." In *Proceedings of the 13th Language Resources and Evaluation Conference (LREC 2022)*(pp. 1712-1720)

2021

Barrett, M.; Lam H. T.; Wu, M.; Lacroix, O.; Plank, B. & Søgaard, A. "Resources and Evaluations for Danish Entity Resolution." In *Fourth Workshop on Computational Models of Reference, Anaphora and Coreference (CRAC)*

2021

Hollenstein, N.; Renggli, C.; Glaus, B.; Barrett, M.; Troendle, M.; Langer, N.; & Zhang, C. "Decoding EEG brain activity for multi-modal natural language processing." In *Frontiers in Human Neuroscience*, 15.

2021

Thorn, T.; Barrett, M. & Søgaard, A. "Spurious Correlations in Cross-Topic Argument Mining." In *Proceedings of *SEM*.

2021

Pauli, A. B.; Barrett M.; Lacroix O. & Hvingelby, R. "DaNLP: An open-source toolkit for Danish Natural Language Processing." In *Proceedings of NoDaLiDa*

2020

González, A. V.; Barrett, M.; Hvingelby, R.; Webster, K.; & Søgaard, A. "Type B Reflexivization as an Unambiguous Testbed for Multilingual Multi-Task Gender Bias." In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)* (pp. 2637-2648).

2020

Barrett, M.; Hollenstein, N. "Sequence labelling and classification with eye movements: Novel uses of eye-tracking data for natural language processing." In *Language and Linguistics Compass*.

2020

Abdou, M.; Ravishankar, V.; Barrett, M.; Belinkov, Y.; Elliott, D.; Søgaard, A. "The Sensitivity of Language Models and Humans to Winograd Schema Perturbations." In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*.

2020

Hvingelby, R., Pauli, A. B., Barrett, M., Rosted, C., Lidegaard, L. M., & Søgaard, A. "DaNE: A Named Entity Resource for Danish." In *Proceedings of The 12th Language Resources and Evaluation Conference* (pp. 4597-4604).

2020

Hollenstein, N., Barrett, M., & Beinborn, L. "Towards best practices for leveraging human language processing signals for natural language processing." In *Proceedings of the Second Workshop on Linguistic and Neurocognitive Resources* (pp. 15-27).

2019

Barrett, M.; Kementchedjheva, Y.; Elazar, Y.; Elliott, D.; Søgaard, A. (2019). "Adversarial Removal of Demographic Attributes Revisited." In *EMNLP-IJCNLP* (pp. 6329-6334)

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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).

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).

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Abstracts and posters

2021

Barrett, M.; Lacroix, O.; Plank, B. & Søgaard, A. "Danish coreference resolution benchmarks" Poster presented at *Language Technology Conference*

2021

Hollenstein N. & Barrett, M. "Developing CopCo, the Copenhagen Eye Tracking Corpus of Natural Reading" Poster presented at *Language Technology Conference*

2021

Lam H. T.; Wu, M.; Lacroix, O. & Barrett, M. "Danish named entity disambiguation and identification of public vs. private person names" Poster presented at *Language Technology Conference*

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 presented at *Scandinavian Workshop on Applied Eye Tracking*.

2014

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

Not peer-reviewed

2020

Muttenthaler, L., Hollenstein, N., & Barrett, M. (2020). "Human brain activity for machine attention". *arXiv preprint arXiv:2006.05113*.

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

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.