Curriculum Vitae

Maria Becker

Institute for Computational Linguistics, Heidelberg University (Germany)
DFG Priority Program „Robust Argumentation Machines"
Leibniz ScienceCampus for Empirical Linguistics & Computational Language Modeling

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Education

Since 04/2016	PhD student, Heidelberg University, Department of Computational Linguistics (in collaboration with Leibniz ScienceCampus for Empirical Linguistics & Computational Language Modeling (since 04/2016) and with the DFG Priority Program „Robust Argumentation Machines" (since 04/2018)) Topic: Knowledge Acquisition for Argument Analysis Supervisors: Prof. Dr. Anette Frank, Dr. Vivi Nastase
10/2012 – 03/2015	Master in German Linguistics (major) and Philosophy (minor), Heidelberg University, Germany (with distinction)
08/2012 – 01/2015	Master in Language & Communication (major) and Psychology (minor), University of Mannheim, Germany (with distinction)
10/2008 – 07/2012	Bachelor in German Philology (major) and Philosophy (major), Heidelberg University, Germany

Summerschools and Training

10/2017	Workshop on "Leadership Skills", Heidelberg, Germany.
09/2017	1st Summer School of Digital Humanities: Distant Reading - Potentials and Applications. Heidelberg, Germany.
08/2017 – 09/2017	12th Machine Translation Marathon: Neural Machine Translation. Lisbon, Portugal.
07/2017	7th Machine Learning School. Lisbon, Portugal.
09/2016	Second Summer School on Argumentation: Computational and Linguistic Perspectives. Potsdam, Germany.

07/2015 – 08/2015	Culture & Technology - 6th European Summer University in Digital Humanities. Classes: Basic Statistics and Visualization with R (week 1) und Stylometry (week 2). Leipzig, Germany.

Experience

04/2015 – 03/2016	Research Assistant (Leibniz Science Campus for Empirical Linguistics & Computational Language Modeling, Institute for German Language Mannheim (IDS))
Since 02/2015	Project Coordinator (Discourse Lab: Information and research platform for digital discourse analysis, University of Heidelberg/ TU Darmstadt) (part-time)
10/2013 – 01/2015	Student Assistant (Department of German Linguistics/Institute for German Philology, University of Heidelberg)
01/2013 – 12/2014	Student Assistant (Department of Pragmatics/Institute for German Language Mannheim (IDS), Project: Medical Communication)
11/2010 – 08/2014	Tutor for Linguistics (Department of German Linguistics/ Institute for German Philology, Heidelberg University)
07/2010 – 12/2012	Student Assistant (Department of Pragmatics/Institute for German Language Mannheim (IDS), Project: FOLK (Spoken Language Corpus))

Teaching

WS 2015/2016	Undergraduate Seminar (Proseminar) Grammatik der geschriebenen und gesprochenen Sprache [Grammar of Written and Spoken Language]. Department of German Linguistics/ Institute for German Philology, Heidelberg University.

Workshop Organization

10/2017	Discourse Lab Workshop „Korpustools im Vergleich" [Corpus tools in comparison]. Heidelberg University.
02/2017	Discourse Lab Workshop zu qualitativen und quantitativen Methoden der Korpuslinguistik [Qualitative and quantitative approaches to textual coprora]. Heidelberg University.

Computer Skills

Languages   Python, R

Technologies   NLTK, KERAS, STYLO, COSMAS, Gephi, LATEX, InDesignCC

Systems   Linux/UNIX, Windows

Languages

German (native), English (fluent), French (intermediate), Spanish (intermediate), Italian (intermediate), Latin (intermediate)

Research Interests

Argumentation Mining, Knowledge Acquisition, Inference, Deep Learning, Corpus Linguistics, Discourse Analysis, Media Linguistics, Spoken Language, Medical Communication, Information Retrieval, Text Simplification

Volunteer Work

02/2014 – 03/2014   Working in a children's home and in schools in Iriga City, Philippines (Kolping Workcamp)

09/2012 – 03/2015   Mentor at Big Brothers Big Sisters / KinderHelden: Mentoring of children from difficult social conditions

Publications

Books

2015

Becker, M.: Der Asyldiskurs in Deutschland. Eine medienlinguistische Untersuchung von Pressetexten, Onlineforen und Polit-Talkshows [Debating about refugees in Germany. A media-linguistic analysis of newspapers, online forums and political talkshows]. Frankfurt et al.: Peter Lang.

Becker, M.: Ärztliche Empfehlungen in Therapieplanungs-gesprächen. Eine gesprächs-analytische Untersuchung [Medical recommendations in therapy planning discussions. A conversation analysis]. Gesprächsforschung Online, Reihe Empirische Kommunikationsforschung im Gesundheitswesen.

Posters

2018

Becker, M., Staniek, M., Nastase, V., Palmer, A., Frank, A.: The Impact of Attention Mechanism, Context and Genre Information when Classifying Semantic Clause Types with Recurrent Neural Networks. 40th Annual Conference of the German Linguistic Society (DGfS). Stuttgart.

Becker, M., Staniek, M., Nastase, V., Palmer, A., Frank, A.: Automatisches Klassifizieren Semantischer Clauses: Modellierung von Kontext und Genremerkmalen mit Rekurrenten Neuronalen Netzwerken und dem Attention-Mechanismus. [Automated Classification of Semantic Clauses: Modeling Context and Genre Characteristics with Recurrent Neural Networks and Attention Mechanism.] 54. Jahrestagung des Instituts für Deutsche Sprache. Mannheim.

2017

Becker, M. and Meyer, J.: Quantitative Approaches to Language: A Study on Controversial Concepts in Climate Change Discourse. Summer School of Digital Humanities: Distant Reading - Potentials and Applications. Heidelberg

2016

Becker, M.: Argumentative Reasoning, Clause Types and Implicit Knowledge. Proceedings of the Second Summer School on Argumentation: Computational and Linguistic Perspectives, pp 1-2. Potsdam. **[Best Poster Award]**

Papers

2018

Becker, M.: Frieden, Freiheit, Sicherheit. Kontextsensitive Bedeutungsanalysen dreier Konzepte in den Bundestagsdebatten von März bis Juli 1983. Analysen mit Python. [Peace, freedom, security. Context-sensitive analysis of three concepts in the Bundestag debates from March to July 1983. Analyzes with Python.] Discourse Lab Workshop „Korpustools im Vergleich". Heidelberg. Published on Discourse Lab Blog: https://dislab.hypotheses.org/ **[Best Presentation Award]**

2017

Becker, M., Staniek, M., Nastase, V., Palmer, A., Frank, A.: Classifying Semantic Clause Types: Modeling Context and Genre Characteristics with Recurrent Neural Networks and Attention. *SEM (Joint Conference on Lexical and Computational Semantics)

Becker, M., Staniek, M., Nastase, V., and Frank, A.: Enriching Argumentative Texts with Implicit Knowledge. Frasinca, F., Ittoo, A., Nguyen, L., and Metais, E. (eds.), Applications of Natural Language to Data Bases (NLDB) - Natural Language Processing and Information Systems, Lecture Notes in Computer Science, Springer.

Becker, M., Palmer, A., Frank, A.: Semantic Clause Types and Modality as Features for Argument Analysis. Argument & Computation. Special Issue on Language and Argumen-

tation.

Stegmeier, J., Schünemann, W., Müller, M., Becker, M., Steiger, S., Stier, S.: Multi-method discourse analysis of twitter communication. A comparison of two global political issues. In: Scholz, R. (ed.): Quantifying methods in discourse studies. Basingstoke: Palgrave.

Becker, M., Spranz-Fogasy, Th.: Ärztliche Beratung und Empfehlungen [Medical advice and recommendations]. In: Pick, I. (ed.): Beraten ist Sprechen. Eine linguistische Typologie zu Beratungsgesprächen in verschiedenen Handlungsfeldern. Frankfurt u.a.: Peter Lang.

Becker, M., Müller, M.: Wörter und Dinge. Interdisziplinarität als Modus und Gegenstand der Reflexiven Diskursanalyse [Words and things. Interdisciplinarity as the mode and object of reflexive discourse analysis]. In: Kämper, H., Reisigl, M., Warnke, I., Hess-Lüttich, E. (eds.): Diskurs - semiotisch. Berlin: Akademie.

Müller, M., Becker, M.: Von Hunden, Hürden und Brücken. Tropen der deutsch-chinesischen Begegnung im kulinarischen Diskurs [Of dogs, hurdles and bridges. Tropes of the German-Chinese encounter in the culinary discourse]. In: Friedemann Vogel / Jia Wenjian (Eds.): Chinesisch-Deutscher Imagereport (CDI). Das Bild Chinas im deutsch-sprachigen Raum aus kultur-, medien- und sprachwissenschaftlicher Perspektive. Berlin/Boston: De Gruyter, pp. 119-136.

2016

Becker, M., Palmer, A., and Frank, A.: Clause Types and Modality in Argumentative Micro-texts. Workshop on Foundations of the Language of Argumentation (in conjunction with COMMA), pp. 1-9.

Becker, M., Palmer, A., and Frank, A.: Argumentative texts and clause types. Proceedings of the 3rd Workshop on Argument Mining (ACL Workshop), pp. 21-30.

Spranz-Fogasy, Th., Becker, M.: Beschwerdenexploration und Diagnosemitteilung im ärztlichen Erstgespräch [Symptoms and diagnosis in the initial medical consultation]. In: Busch, A., Spranz-Fogasy, Th. (eds.), Handbuch Sprache und Medizin, Berlin/Boston: de Gruyter, pp. 93-115.

Müller, M., Becker, M.: Wissenskonflikte im Gespräch [Conflicts of Knowledge in Conversation]. In: Luth, J., Vogel, F., Ptashnyk, S. (eds): Linguistische Zugänge zu Konflikten in europäischen Sprachräumen. Berlin/Boston: de Gruyter, pp. 93-112.

Becker, M.: Die Flüchtlingsdebatte in den Medien Deutschlands: Eine korpus- und diskurs-linguistische Untersuchung der Konzeptualisierung von Angst [The refugee debate in the German media: A corpus- and discurslinguistic study of the conceptualization of anxiety]. In: Sprachreport 2/2016, pp. 1-11.

Knuchel, D., Becker, M.: Conceptualisations of HIV/AIDS in two German message boards. A corpus linguistic approach. Symposium Language and Health Online. Typing yourself healthy. Basel (CH).

2015

Burel, S., Becker, M., Kleitsch, L.: Kommunikative Strategien von Unternehmen zwischen Inszenierung und Adressierung [Communicative strategies of companies between staging

and addressing]. In: Grucza. S., Kolago, L. (eds), Kommunikationsmanagement in multikulturellen Projektteams. Frankfurt am Main et al.: Peter Lang, pp. 229-245.

2014

Spranz-Fogasy, Th., Becker, M., Menz, F., Nowak, P.: Bibliografie zur Medizinischen Kommunikation [Bibliography on Medical Communication]. In: GAIS (Gesprächsanaly-tisches Informationssystem)

Editing

2014

Becker, M., Jacob, K., Luth, J., Schedl, E., and Schnedermann, T.: Diskurszukünfte. Jubiläumszeitschrift des Forschungsnetzwerks "Sprache und Wissen". [The Future of Discourses. Anniversary Journal of the Research Network "Language and Knowledge]. Heidelberg. (DOI: 10.11588/heidok.00018444).

Since 2015

Becker, M., Meyer, J. Discourse Lab: Information and Research Platform for Discourse Analysis – Blog [https://dislab.hypotheses.org/]

Invited Talks

2016

Becker, M.: Quantitative Approaches to Language. Colloquium "Discourse Analysis". Heidelberg University, Romanisches Seminar.

2018

Becker, M.: Reconstructing Implicit Knowledge in Argumentative Texts. Colloquium "Digital Philology". Technische Universität Darmstadt, Institut für Sprach- und Literaturwissenschaft.

Talks (without a paper)

2017

Becker, M., Meyer, J.: Quantitative Zugänge zu sprachlichen Korpora. Eine exemplarische Studie zu agonalen Zentren im Klimawandel-Diskurs [Quantitative approaches to linguistic corpora. An exemplary study on agonal centers in the climate change discourse]. Discourse Lab Workshop zu qualitativen und quantitativen Methoden der Korpuslinguistik.

2015

Müller, M., Becker, M.: Establishing identity and alterity in epistemic cultures. 15th conference of DiscourseNet 'Discourses of Culture – Cultures of Discourse'. Belgrade.