

# Curriculum Vitae

## Maria Becker

Institute for Computational Linguistics, Heidelberg University (Germany)  
Leibniz ScienceCampus for Empirical Linguistics & Computational Language Modeling

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## Education

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| Since 04/2016     | PhD student, University of Heidelberg, Department of <a href="#">Computational Linguistics</a> /Leibniz ScienceCampus for Empirical Linguistics & Computational Language Modeling<br>Topic: <a href="#">Knowledge Acquisition for Argument Analysis</a><br>Supervisors: Prof. Dr. Anette Frank, Dr. Vivi Nastase |
| 10/2012 – 03/2015 | Master in <a href="#">German Linguistics</a> (major) and <a href="#">Philosophy</a> (minor), University of Heidelberg, Germany (with distinction)  |
| 08/2012 – 01/2015 | Master in <a href="#">Language &amp; Communication</a> (major) and <a href="#">Psychology</a> (minor), University of Mannheim, Germany (with distinction)  |
| 10/2008 – 07/2012 | Bachelor in <a href="#">German Philology</a> (major) and <a href="#">Philosophy</a> (major), University of Heidelberg, Germany   |

## Summerschools

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| 08/2017 – 09/2017 | 12 <sup>th</sup> <a href="#">Machine Translation Marathon</a> : Neural Machine Translation. Lisbon, Portugal.  |
| 07/2017           | 7 <sup>th</sup> <a href="#">Machine Learning School</a> . Lisbon, Portugal.  |
| 09/2016           | Second <a href="#">Summer School on Argumentation</a> : Computational and Linguistic Perspectives. Potsdam, Germany.   |
| 07/2015 – 08/2015 | Culture & Technology - The 6th European <a href="#">Summer University in Digital Humanities</a> . Classes: Basic Statistics and Visualization with R (week 1) und Stylometry (week 2). Leipzig, Germany. |

## Experience

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

## Computer Skills

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| Languages    | Python, R  |
| Technologies | NLTK, KERAS, STYLO, COSMAS, Gephi, LATEX, InDesignCC |
| Systems      | Linux/UNIX, Windows                                  |

## Languages

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

## Volunteer Work

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| 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 |

## Teaching

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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, University of Heidelberg.

## Research Interests

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

## Publications

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### Books

#### 2015

Becker, M.: Der Asyldiskurs in Deutschland. Eine medienlinguistische Untersuchung von Presstexten, 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

#### 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.

#### 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. **[Best Poster Award]**

## Papers

### 2017

Becker, M., Staniek, M., Nastase, V., Palmer, A., Frank, A. (2017): 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. (2017): 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. (2017): Semantic Clause Types and Modality as Features for Argument Analysis. Argument & Computation. Special Issue on Language and Argumentation.

Stegmeier, J., Schünemann, W., Müller, M., Becker, M., Steiger, S., Stier, S. (to appear): 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.

### 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 diskurslinguistische Untersuchung der Konzeptualisierung von Angst [The refugee debate in the

German media: A corpus- and discourslinguistic 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 (Gesprächsanalytisches Informationssystem)