

# Prof. Dr. Anette Frank

CHAIR OF COMPUTATIONAL LINGUISTICS · DEPARTMENT OF COMPUTATIONAL LINGUISTICS

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## Education

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### University of Stuttgart

Stuttgart, Germany

HABILITATION IN COMPUTATIONAL LINGUISTICS

2002

- Advisor: Prof. Dr. Christian Rohrer, Prof. Dr. Hans Kamp

### University of Stuttgart

Stuttgart, Germany

DISSERTATION IN COMPUTATIONAL LINGUISTICS

1997

*Context Dependence in Modal Constructions*

- Advisor: Prof. Dr. Hans Kamp, PD Dr. Thomas Zimmermann

### University of Stuttgart

Stuttgart, Germany

M.A. IN LINGUISTICS, COMPUTER SCIENCE, ROMANCE LANGUAGE AND LITERATURE

1988-1991

- Advisor: Prof. Dr. Hubert Haider

### Heidelberg University

Heidelberg

STUDIES OF GERMAN AND ROMANCE LITERATURE AND LINGUISTICS

1984-1988

## Professional Experience

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- since 2007 **Professor of Computational Linguistics**, Heidelberg University, Germany
- 2002 **Teaching replacement (C4 Professorship, Computational Linguistics)**, IMS, University of Stuttgart, Germany
- 2000-2007 **Senior Researcher**, Center for Artificial Intelligence – LT Lab, DFKI, Saarbrücken, Germany
- 1997-2000 **Researcher**, Xerox Research Center Europe XRCE, Multilingual Theory and Technology Lab, Grenoble
- 1991-1997 **Researcher**, Institut für Maschinelle Sprachverarbeitung, University of Stuttgart, Germany
- 1988-1991 **Student Research Assistant**, Institut für Maschinelle Sprachverarbeitung, University of Stuttgart, Germany
- 1986–1988 **Freelancer**, IBM Scientific Research Center Heidelberg, Germany
- 1985–1986 **Teaching Assistant**, Lycée Georges de La Tour, Nancy, France

## Professional Activities

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### UNIVERSITY ADMINISTRATION SERVICES

- since 2007 **Acting Director of the Department for Computational Linguistics and the Study Advisory Board for Computational Linguistics**, rolling 2-year services
- 2008 – 2012 **Member of the Commission for the Admission of Doctoral Stipends Baden-Württemberg**, Landesgraduiertenförderung
- 2008 - 2015 **Member of the Faculty's Study Commission**, two 4-year services

## ROLES AND FUNCTIONS

- since 2021 **Member of the Executive Board of the DFG Priority Program RATIO “Robust Argumentation Machines”**, 2nd project phase
- since 2019 **MC Member of the COST Action CA18231, Multi3Generation: Multi-task, Multilingual, Multi-modal Language Generation**
- 2015 – 2020 **Director and Co-Speaker of the Leibniz ScienceCampus, Empirical Linguistics and Computational Language Modeling**
- 2015 – 2019 **Co-Speaker of the DFG Doctoral School 1994: AIPHES, Adaptive Preparation of Information from Heterogeneous Sources**
- 2011-2016 **CLARIN-D: Coordinator of the working group (F-AG7), Computerlinguistik und Angewandte Sprachwissenschaft**
- since 2011 **Member of the European Center for Linguistics (EZS), Heidelberg University and IDS Mannheim**
- 2010 **Co-Founder of the Joint Doctoral Program “Computational Linguistics”, Department of Computational Linguistics, Heidelberg University and Heidelberg Institute for Theoretical Studies, HITS (then, EML)**
- since 2010 **Member of the Interdisciplinary Center for Scientific Computing (IWR), Heidelberg University, Area: Computational Linguistics**

## SCIENTIFIC COMMUNITY SERVICES

- 2009-2012 **Member of the Nomination Committee of the EACL,**
- 2005-2008 **Officer of the EACL, Secretary**
- 2001-2004 **Officer of the Executive Committee of the International Lexical-Functional Grammar Association, ILFGA**
- since 2000 **Member of the ACL Special Interest Group for Computational Semantics, SigSEM**

## EDITOR ACTIVITIES

- since 2021 **Action Editor for *Transactions of the ACL*, TACL**
- 2018–2019 **Editorial Board of *Computational Linguistics*, CL**
- 2013-2021 **Elite reviewer for *Transactions of the ACL*, TACL**
- since 2012 **Editorial Board of the *Journal of Language Modeling*, JLM**
- 2007–2010 **Editor for *Language and Linguistics Compass*, Computational and Mathematical Linguistics**
- since 2008 **Editorial Board of *Linguistic Issues in Language Technology*, LiLT**

## REVIEWING FOR FUNDING AGENCIES

Deutsche Forschungsgemeinschaft, DFG  
Alexander von Humboldt Foundation  
Schweizerischer Nationalfonds, SNF  
Engineering and Physical Sciences Research Council, EPSRC  
Agence Nationale de la Recherche, ANR

## REVIEWING FOR JOURNALS

Computational Linguistics  
Discourse and Dialogue  
Journal of Language Modeling  
Journal of Logic, Language and Information

Journal of Natural Language Engineering  
Language Resources and Evaluation  
Linguistic Issues in Language Technology  
Semantics & Pragmatics  
Transactions for the Association for Computational Linguistics

#### PROGRAM CHAIR ACTIVITIES AND REVIEWING FOR CONFERENCES AND WORKSHOPS

Area Chair for EMNLP 2020 (recognition as outstanding area chair)  
Area Chair for ACL 2020  
Area Chair for ACL 2019  
Program Co-Chair of \*SEM 2014  
Program Co-Chair of TLT 10, 2012  
Program Co-Chair of TLT 7, 2009  
Area Chair for ACL 2003

Regularly reviewing for

- \*ACL conferences, EMNLP, COLING
- Thematic workshops and conferences:  
SEM, IWCS, RepL4NLP, HumEval, ArgMining, COMMA, ALVR, MMSR, BEA, TLT, ISO, GSCL, ACRH, LREC, KONVENS, LFG, ECAI, ECIR, TextInfer, and numerous others

#### WORKSHOP AND SUMMER SCHOOL ORGANIZATION

- 2019 **Organizer of the 2nd Heidelberg Computational Humanities School HCH**, July 15-19, with Beatrix Busse
- 2012 **Co-Chair and Organization of TLT10: 10th International Workshop on Treebanks and Linguistic Theories**, Heidelberg University
- 2012 **Local organizer of the workshop ACRH: Annotation of Corpora for Research in the Humanities**, Heidelberg University
- 2006 **Multi-lingual Semantic Annotation: Theory and Applications**, Workshop jointly organised by SALSA and Berkeley FrameNet, Saarland University
- 2002 **Beyond Parseval - Towards improved Evaluation Methods for Parsing Systems**, Workshop of the Third International Conference on Language Resources and Evaluation, LREC 2002, Gran Canaria

# Research

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## RESEARCH STATEMENT

Prof. Frank is Chair of Computational Linguistics and leader of the NLP group at the Department of Computational Linguistics at Heidelberg University. Her research focuses on linguistically informed semantics- and discourse-oriented NLP which she applies in advanced NLU tasks, such as reading comprehension, commonsense reasoning or argumentation analysis. She successfully applies deep neural network-based machine learning methods in combination with linguistic modeling and knowledge representation, with the aim to make systems more powerful and robust, and deeper in modeling Natural Language Understanding. Her work covers many themes in semantics-based NLP, including semantic role labeling, coreference, discourse relation parsing, natural language inference and phenomena involving implicitness in language and commonsense NLU.

Prof. Frank has long-standing expertise in semantic analysis in several computational semantic frameworks, and wrote a thesis on context dependence in modal constructions in Discourse Representation Theory. She has extensive background in various syntactic and semantic theories and participated in long-standing international research cooperations targeting multilingual syntactic and semantic analysis and resource building.

Her group regularly publishes in leading computational linguistics venues and achieves top rankings in community shared tasks. Recent projects include the DFG doctoral school AIPHES, the Leibniz ScienceCampus ‘Empirical Linguistics and Computational Language Learning’, and the ExpLAIN and ACCEPT projects in the DFG Priority Program RATIO “Rational Argumentation Machines” with research dedicated to knowledge-enhanced argumentation and deliberation. New research lines extend her work to multimodal NLP, a necessary stepping stone towards true Natural Language Understanding. Being fond of the Humanities, she sometimes ventures into Digital Humanities research and applications.

## CURRENT AND RECENT RESEARCH THEMES

### NEURAL DISCOURSE-SEMANTIC PROCESSING FOR NATURAL LANGUAGE UNDERSTANDING

- Machine Reading Comprehension with linguistic and background knowledge
- Cross-lingual Semantic Role Labeling
- Discourse Relation Parsing
- Abstract Anaphora Resolution
- Social Commonsense Reasoning with Background Knowledge
- Argumentation Analysis with Background Knowledge
- Multimodal Natural Language Understanding
- Novel Evaluation Metrics for Semantic Analysis and Natural Language Generation

## RESEARCH AREAS I HAVE BEEN WORKING ON IN THE PAST

### ONTOLOGIES FOR SEMANTIC PROCESSING AND REPRESENTATION

- Information extraction (relation extraction, temporal processing)
- Multilingual question-answering
- Ontology-based lexicon modelling

### CORPUS-BASED GRAMMAR INDUCTION AND LEXICON ACQUISITION

- Creation and use of treebanks and annotated corpora
- Corpus-based induction of treebanks, grammars, and lexicon resources
- Crosslingual resource induction using parallel corpora

### SEMANTICS AND DISCOURSE ANALYSIS

- Semantics construction and dynamic semantics, esp. Discourse Representation Theory
- Scope and underspecification
- Lexical semantics
- Modality, propositional attitudes and discourse subordination
- Temporal analysis
- Textual entailment

### MULTILINGUAL SYNTACTIC AND SEMANTIC PROCESSING

- Grammar formalisms and grammar engineering techniques
- Multilingual syntactic analysis
- Multilingual semantic analysis and resource creation
- Grammar-based machine translation

## Awards

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- 2021 **The ACL Fellow Award**, for integrative work in linguistically informed, technically well-founded semantics- and discourse-oriented Natural Language Processing.
- 2021 **Best Paper Award: 8th Workshop on Argument Mining (ArgMining 2021)**, J. Opitz, P. Heinisch, P. Wiesenbach, P. Cimiano and A. Frank: *Explainable Unsupervised Argument Similarity Rating with Abstract Meaning Representation and Conclusion Generation*.
- 2021 **Outstanding Reviewer Award**, EMNLP 2021
- 2021 **Best Paper Award: 2nd Workshop on Knowledge Extraction and Integration for Deep Learning Architectures (DeeLIO@NAACL 2021)**, M. Becker, S. Liang and A. Frank: *Reconstructing Implicit Knowledge with Language Models*.
- 2020 **Outstanding Area Chair**, EMNLP 2020
- 2020 **Best Student Paper Award Nomination (among 3 runner-ups): 8th International Conference on Computational Models of Argument (COMMA)**, D. Paul, J. Opitz, M. Becker, J. Kobbe, G. Hirst, and A. Frank: *Argumentative Relation Classification with Background Knowledge*.
- 2019 **Best Student Paper Award, 2nd Conference on Language, Data and Knowledge (LDK)**, J. Kobbe, J. Opitz, M. Becker, I. Hulpus, H. Stuckenschmidt und A. Frank: *Exploiting Background Knowledge for Argumentative Relation Classification*.
- 2016 **Winner of the CoNLL Shared Task for Discourse Relation Sense Classification**, Todor Mihailov and Anette Frank: *Discourse Relation Sense Classification Using Cross-argument Semantic Similarity Based on Word Embeddings*.
- 2011 **Best Reviewer Award**, EMNLP 2011
- 1999 **Award for Outstanding Scientific Contributions**, XRCE, Xerox, Grenoble
- 1991 **Nomination: Best Master Thesis**, University of Stuttgart, Faculty of Philosophy
- 1990 **Support for highly talented students**, Baden-Württemberg Collquium

## Research Grants

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- 2021 - 2024 **ACCEPT: Perspectivized Argument Knowledge Graphs for Deliberation Support.**  
**DFG Priority Program: RATIO “Robust Argumentation Machines” (Phase II)**,  
PIs: Anette Frank (Heidelberg University), Philipp Cimiano (University of Bielefeld)
- 2018 – 2021 **ExpLAIN: Between the Lines – Knowledge-based Analysis of Argumentation in a formal Argumentation Inference System.**  
**DFG Priority Program: RATIO “Robust Argumentation Machines” (Phase I)**,  
PIs: A. Frank (Heidelberg University), H. Stuckenschmidt (University of Mannheim)
- 2015 – 2021 **AIPHES Adaptive Information Processing from Heterogeneous Sources**  
**DFG Doctoral Research School**,  
TU Darmstadt, Heidelberg University, Heidelberg Institute of Theoretical Studies (HITS)  
Speaker: Iryna Gurevych (TU Darmstadt), Co-Speaker: Anette Frank (Heidelberg University)
- 2015 – 2020 **Leibniz ScienceCampus: Empirical Linguistics and Computational Language Learning.**  
**Leibniz Association and Baden-Württemberg Ministry of Science, Research and the Arts**, PIs: Anette Frank, Katja Markert (Heidelberg University), Andreas Witt (IDS Mannheim)

- 2011 – 2019 **Leader of Action Group F-AG7: Computational Linguistics and Applied Linguistics**  
**BMBF: CLARIN-D: Common Language Resources and Technology Infrastructure**,  
 F-AG Coordinator: Anette Frank (Heidelberg University)
- 2011 – 2014 ***Coherence in Language Processing: Semantics beyond the Sentence***  
**Doctoral School (Promotionskolleg Landesgraduiertenförderung Baden-Württemberg)**,  
 PIs: A. Frank, S. Pado, S. Riezler (HD University), M. Strube (EML/HITS)
- 2011 – 2012 ***The Role of Context in Language Processing***  
**DFG Excellence Initiative: Global Networks**,  
 PIs: Anette Frank (Heidelberg University), Mark Johnson (Macquarie University)
- 2009 – 2013 ***Ontology Modeling for Ritual Structure Research***  
**DFG SFB 619: “Ritual Dynamics”** ,  
 PIs: Anette Frank (ICL), Axel Michaels (South Asia Institute), Heidelberg University
- 2008–2010 ***Sightsee: Synchronous Generation of Language and 3D-Scenes***  
**DFG Excellence Initiative**,  
 PIs: A. Frank (ICL, HD Univ.), M. Strube (EML/HITS), S. Krömker (IWR, HD Univ.)
- 2009 **Turkologischer Anzeiger (TA): Creation of a Translingual Database**  
**DFG Excellence Initiative (Excellence Cluster “Asia and Europe in a Global Context”)**,  
 PIs: A. Frank (ICL, HD Univ.), M. Ursinus (Islamic Studies, HD Univ.)
- Department of Oriental Studies, Univ. of Vienna (publisher of the TA);
  - Research Institute for Linguistics, Hungarian Academy of Sciences, Budapest (editorial office);
  - Dept. of Computational Linguistics, Heidelberg University (TA Online conception & programming);
  - Dept. of Languages and Cultures of the Near East (Islamic Studies), HD Univ. (project lead, TA scanning)
- 2004–2007 ***SALSA II: The Saarbrücken Lexical Semantics Acquisition Project***  
**DFG Research Grant**,  
 PIs: Manfred Pinkal (University of the Saarland), Anette Frank (DFKI gGmbH)

## Co-Project Leader

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- 2003–2005 **QUETAL – A Multilingual Hybrid Question-Answering System for Exploring Large Collections of Annotated Free Text Documents**,  
 DFKI gGmbH Saarbrücken & BMBF, Co-Project leader, PI: H. Uszkoreit
- 2001-2002 **WHITEBOARD – Eine XML-basierte Architektur für die Analyse natürlichsprachlicher Texte**,  
 DFKI gGmbH Saarbrücken & BMBF; Co-Project leader, PI: H. Uszkoreit

## Membership in International Research Collaborations

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- 2004-2007 **TransCoop: Cross-lingual FrameNet**,  
 International Computer Science Institute (ICSI) Berkeley and the SALSA Project
- 2004-2007 **Delph-In: Deep Linguistic Processing with HPSG**,  
<http://moin.delph-in.net>
- 1996-2008 **PARGRAM/PARSEM: Parallel Syntax and Semantics in Lexical-Functional Grammar**,  
<https://pargram.w.uib.no/>

## Resource Creation

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### DATA REPOSITORIES

**HD-NLP Github repository** <https://github.com/Heidelberg-NLP>

#### CODE AND DATA FROM OUR RESEARCH

- Commonsense Knowledge: manual and automatic annotation and LM-based knowledge reconstruction
- Social Commonsense Reasoning
- Graded, graph-based AMR Metrics and Metric Suites
- Machine Reading with Knowledge and Linguistic Skills
- Multilingual AMR Parsing
- Multimodal Processing: Probing Benchmarks
- and more

**LiMo Dataverse** <https://heidata.uni-heidelberg.de/dataverse/lwc-limo>

#### CORPUS AND SOFTWARE RESOURCES FROM THE LIMO PROJECT (LEIBNIZ SCIENCECAMPUS)

- AMR Parse Quality Prediction
- ConceptNet Processing Suite: COREC, COCO-Ex, CONN-ect
- Opinion Role Extractor
- Modal Sense Annotation
- Xlingual SRL: Translate and Label & X-SRL alignment code
- and more

**AIPHES Dataverse** <https://heidata.uni-heidelberg.de/dataverse/aiphes>

#### DATA AND CODE FOR PHD THESES IN THE DFG GRADUATE SCHOOL AIPHES

- Abstract Anaphora Resolution
- SRL4ORL: Improving Opinion Role Labeling Using Multi-Task Learning With Semantic Role Labeling
- and more

### CORPUS RESOURCES (SELECTION)

#### **SALSA Corpus: Frame-Semantic Annotation of German Newspaper Text**

##### DFG PROJECT SALSA II: THE SAARBRÜCKEN LEXICAL SEMANTICS ACQUISITION PROJECT

- PIs: Prof. Dr. Manfred Pinkal and PD Dr. Anette Frank, University of the Saarland, Saarbrücken

#### **X-SRL: Parallel Cross-lingual Semantic Role Labeling**

##### LDC CATALOGUE: LDC2021T09

- Dr. cand. Angel Daza and Prof. Dr. Anette Frank, Leibniz ScienceCampus, HD University and IDS Mannheim

#### **More SRL Resources**

##### FOR DIFFERENT SRL FRAMEWORKS: FRAMENET, PROPBANK, VERBNET

- **GNVN**: joint semantic predicate (GermaNet) and semantic role (VerbNet) annotation for German (Mújdricza-Maydt et al., 2016)
- **SightSee**: A Frame-annotated Wayfinding Corpus (Schuldes et al. 2019)
- **SR3de – Semantic Role Triple Dataset for German**: parallel PropBank-, VerbNet-, and FrameNet-style semantic role annotation on parts of the CoNLL 2009 shared task German data (Hartmann et al. 2017)

#### **SRL Resources**

##### FOR IMPLICIT SEMANTIC ROLE BINDING

- **GigaPair**: documents, alignments and automatically induced implicit arguments (Roth & Frank, 2012a,b; 2013; 2015)
- **ON5V**: OntoNotes 5 Predicates Non-local Role Linking Data Set (Moor et al., 2013)

#### **Sense and Semantic Clause Type Annotation**

##### CORPUS ANNOTATION

- **German Word Sense Annotation Data Set** (Broscheit et al. 2010)
- **HeiNER: The Heidelberg Named Entity Resource** (Wentland et al., 2008)
- **MSC: Modal sense classification (MSC) dataset** (Zhou et al., 2015, Marasovic et al. 2016, Frank and Marasovic 2016)
- GER\_SET: Situation Entity Type labelled corpus for German [LiMo project]

#### **Commonsense knowledge**

##### CORPUS ANNOTATION OF IMPLICIT STATEMENTS AND CONCEPTNET RELATIONS

- **IKAT EN, DE**: Implied knowledge annotations in argumentative Micro texts (Becker et al. 2017 (NLDB) and 2020 (LREC))

## Publications

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### OVERVIEW

|  |     |
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| Journal articles                               | 16  |
| Book chapters                                  | 20  |
| Monographs & books                             | 3   |
| Edited volumes                                 | 3   |
| Peer-reviewed conference and workshop articles | 115 |
| Non-archival publications                      | 1   |
| Outreach                                       | 1   |
|  | 159 |

### JOURNAL ARTICLES

- 1 Erdem, E., Kuyu, M., Yagcioglu, S., Frank, A., Parcalabescu, L., Plank, B., Babii, A., Turuta, O., Erdem, A., Calixto, I., Lloret, E., Apostol, E., Truică, C., Šandrih, B., Gatt, A., Martinčić-Ipšić, S., Berend, G., and Korvel, G. (2022): Neural Natural Language Generation: A Survey on Multilinguality, Multimodality, Controllability and Learning. *Journal of Artificial Intelligence Research (JAIR)*, 73, 1131–1207.
- 2 Opitz, J., Daza, A. and Frank, A. (2021): Weisfeiler-Leman in the BAMBOO: Novel AMR Graph Metrics and a Benchmark for AMR Graph Similarity. *Transactions of the Association for Computational Linguistics*, to appear.
- 3 Becker, M., Hulpus, I., Paul, D., Opitz, J., Kobbe, J., Stuckenschmidt, H., and Frank, A. (2020): Explaining Arguments with Background Knowledge – Towards Knowledge-based Argumentation Analysis. *Datenbank Spektrum (Special Issue: Argumentation Intelligence)*, 20, 131–141. [ [http](#) ]
- 4 Opitz, J., Parcalabescu, L., and Frank, A. (2020): AMR Similarity Metrics from Principles. *Transactions of the Association for Computational Linguistics*, 8, 522–538. [ [html](#) ]
- 5 Becker, M., Staniek, M., Nastase, V., Palmer, A., and Frank, A. (2018): Classifying Semantic Clause Types with Recurrent Neural Networks: Analysis of Attention, Context and Genre Characteristics. *Traitement Automatique des Langues (Natural Language Processing): Special Issue: Deep Learning for Natural Language Processing*, 59, 15–48. [ [http](#) ]
- 6 Becker, M., Palmer, A., and Frank, A. (2017): Semantic Clause Types and Modality as Features for Argument Analysis. *Argument & Computation, Special Issue on Language and Argumentation*. [ [http](#) ]
- 7 Marasović, A., Zhou, M., Palmer, A., and Frank, A. (2016): Modal Sense Classification At Large: Paraphrase-Driven Sense Projection, Semantically Enriched Classification Models and Cross-Genre Evaluations. *Linguistic Issues in Language Technology, Special issue on Modality in Natural Language Understanding, Stanford, CA., vol. 14 (2), CSLI Publications*. [ [.pdf](#) ]
- 8 Roth, M. and Frank, A. (2015): Inducing Implicit Arguments from Comparable Texts: A Framework and its Applications. *Computational Linguistics*, 41, 625–664. [ [.pdf](#) ]
- 9 Heckmann, D., Frank, A., Arnold, M., Gietz, P., and Roth, C. (2014): Citation Segmentation from Sparse & Noisy Data: A Joint Inference Approach with Markov Logic Networks. *Digital Scholarship in the Humanities (formerly: Literary and Linguistic Computing)*. [ [http](#) ]
- 10 Reiter, N., Frank, A., and Hellwig, O. (2014): An NLP-based Cross-Document Approach to Narrative Structure Discovery. *Literary and Linguistic Computing, Special Issue on Computational Models of Narrative*, 29, 583 –605. [ [http](#) ]
- 11 Tremper, G. and Frank, A. (2013): A Discriminative Analysis of Fine-Grained Semantic Relations including Pre-supposition: Annotation and Classification. Dipper, S., Zinsmeister, H., and Webber, B. (eds.), *Dialogue and Discourse, Special Issue on Annotating Pragmatic and Discourse Phenomena*, pp. 282–324. [ [http](#) ]



- 12 Frank, A., Bögel, T., Hellwig, O., and Reiter, N. (2012): Semantic Annotation for the Digital Humanities - Using Markov Logic Networks for Annotation Consistency Control. *Linguistic Issues in Language Technology*, 7, 1–21, published by CSLI Publications. [ .pdf ]
- 13 Buitelaar, P., Cimiano, P., Frank, A., Hartung, M., and Racioppa, S. (2008): Ontology-based Information Extraction and Integration from Heterogenous Data Sources. *International Journal of Human-Computer Studies*, 66, 759–788. [ http ]
- 14 Burchardt, A., Padó, S., Spohr, D., Frank, A., and Heid, U. (2008): Constructing Integrated Corpus and Lexicon Models for Multi-Layer Annotations in OWL DL. *Linguistic Issues in Language Technology*, 1, 1–33. [ http ]
- 15 Frank, A., Krieger, H.-U., Xu, F., Uskoreit, H., Crysmann, B., Jörg, B., and Schäfer, U. (2007): Question Answering from Structured Knowledge Sources. *Journal of Applied Logic. Special Issue on Questions and Answers: Theoretical and Applied Perspectives*, 5, 20–48. [ http ]
- 16 King, T., Dipper, S., Frank, A., Kuhn, J., and Maxwell, J. (2004): Ambiguity Management in Grammar Writing. *Research on Language and Computation*, 2, 259–280, revised and extended version of: King et al. (2001). [ http ]

## BOOK CHAPTERS

17. 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. [ .pdf ]
18. Hartung, M. and Frank, A. (2014): Distinguishing Properties and Relations in the Denotation of Adjectives: an Empirical Investigation. Gamerschlag, T., Gerland, D., Osswald, R., and Petersen, W. (eds.), *Concept Types and Frames. Applications in Linguistics and Philosophy*, pp. 179–197, *Studies in Linguistics and Philosophy*, Springer. [ http ]
19. Bögel, T. and Frank, A. (2013): A Joint Inference Architecture for Global Coreference Clustering with Anaphoricity. Gurevych, I., Biemann, C., and Zesch, T. (eds.), *Language Processing and Knowledge in the Web*, Proceedings of the German Society for Computational Linguistics, GSCL 2013, Darmstadt, Germany, vol. 8105, Springer. [ http ]
20. Frank, A. and Padó, S. (2012): Semantics in computational lexicons. Maienborn, C., von Heusinger, K., and Portner, P. (eds.), *Semantics: An International Handbook of Natural Language Meaning*, vol. 3 of HSK Handbooks of Linguistics and Communication Science Series, pp. 2887–2917, de Gruyter. [ .pdf ]
21. Frank, A. (2013): A Tour of Grammar Formalisms. King, T. and de Paiva, V. (eds.), *From Quirky Case to Representing Space: Papers in Honor of Annie Zaenen*, pp. 75–93, CSLI Publications. [ http ]
22. Reiter, N., Hellwig, O., and Frank, A. (2011): Semi-Automatic Semantic Analysis of Rituals: Chances and Challenges. Felder, E., Müller, M., and Vogel, F. (eds.), *Thematische Korpora als Basis diskurslinguistischer Analysen von Texten und Gesprächen*, pp. 281–313, *Korpuspragmatik*, De Gruyter. [ http ]
23. Reiter, N., Hellwig, O., Frank, A., Gossmann, I., Larios, B., Rodrigues, J., and Zeller, B. (2011): Adapting NLP Tools and Frame-Semantic Resources for the Semantic Analysis of Ritual Descriptions. Sporleder, C., van den Bosch, A., and Zervanou, K. (eds.), *Language Technology for Cultural Heritage*, pp. 171–193, *Foundations of Human Language Processing and Technology*, Springer. [ http ]
24. Burchardt, A., Erk, K., Frank, A., Kowalski, A., Padó, S., and Pinkal, M. (2009): Using FrameNet for the Semantic Analysis of German: Annotation, Representation and Automation. Boas, H. (ed.), *Multilingual FrameNets – Practice and Applications*, pp. 209–244, Mouton de Gruyter. [ .pdf ]
25. Reiter, N., Hartung, M., and Frank, A. (2008): A resource-poor approach for linking ontology classes to Wikipedia articles. Bos, J. and Delmonte, R. (eds.), *Semantics in Text Processing. Research in Computational Semantics*, vol. 1 of *Research in Computational Semantics*, pp. 381–387, College Publications. [ .pdf ]

26. Frank, A. (2006): (Discourse-) Functional Analysis of Asymmetric Coordination. Butt, M., Dalrymple, M., and King, T. (eds.), *Intelligent Linguistic Architectures: Variations on themes by Ronald M. Kaplan* and CSLI Publications, pp. 259–285, CSLI Publications.
27. Crouch, R., Frank, A., and van Genabith, J. (2004): Linear Logic based Transfer and Structural Misalignment. Bunt, H., van der Sluis, I., and Thijsse, E. (eds.), *Computing Meaning*, vol. 3, Kluwer Academic Publishers. [ [http](#) ]
28. Frank, A., Sadler, L., van Genabith, J., and Way, A. (2003): From Treebank Resources to LFG F-Structures. Automatic F-Structure Annotation of Treebank Trees and CFGs extracted from Treebanks. Abeillé, A. (ed.), *Treebanks. Building and using syntactically annotated corpora*, pp. 367–389, Kluwer Academic Publishers. [ [.pdf](#) ]
29. Frank, A. and Erk, K. (2004): Towards an LFG Syntax-Semantics Interface for Frame Semantics Annotation. Gelbukh, A. (ed.), *Computational Linguistics and Intelligent Text Processing. Lecture Notes in Computer Science*, vol. 2945, pp. 1–12, Springer Verlag. [ [http](#) ]
30. Frank, A. and Zaenen, A. (2004): Tense in LFG: Syntax and Morphology. Sadler, L. and Spencer, A. (eds.), *Projecting Morphology*, CSLI Publications.
31. Frank, A. and Zaenen, A. (2002): Tense in LFG: Syntax and Morphology. Kamp, H. and Reyle, U. (eds.), *How we say WHEN it happens. Contributions to the theory of temporal reference in natural language*, Niemeyer. [ [.pdf](#) ]
32. Crouch, R., Frank, A., and van Genabith, J. (2001): Glue, Underspecification and Translation. Bunt, H. (ed.), *Computing Meaning*, vol. 2, Kluwer Academic Publishers.
33. Frank, A., King, T., Kuhn, J., and Maxwell, J. (2001): Optimality Theory Style Constraint Ranking in Large-Scale LFG Grammars. Sells, P. (ed.), *Formal and Empirical Issues in Optimality Theoretic Syntax*, CSLI Publications.
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153. Frank, A. (1997): Context Dependence in Modal Constructions. "Arbeitspapiere des Sonderforschungsbereichs 340", "Sprachtheoretische Grundlagen für die Computerlinguistik" 91, Stuttgart University. [ .pdf ]
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157. Frank, A. (1994): V2 by Underspecification or by Lexical Rule. Arbeitspapiere des SFB 340, 43, University of Stuttgart, 77 pages. [ [.pdf](#) ]

#### NON-ARCHIVAL

158. Mihaylov, T., Kozareva, Z., and Frank, A. (2017): Neural Skill Transfer from Supervised Language Tasks to Reading Comprehension. Workshop on Learning with Limited Labeled Data: Weak Supervision and Beyond at NIPS 2017. [ [.pdf](#) ]

#### OUTREACH

159. Frank, A. and Markert, K. (2020): Herausforderungen Maschinellen Sprachverstehens. Algorithmus für Kreativität gesucht. Ruperta Carola Forschungsmagazin, Maschine & Mensch, 86–95. [ [http](#) ]

#### Outreach, Press and Media

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- 2021 **Gut zu wissen: Computerlinguistik**, in: Die ZEIT – Wissen (newspaper)  
*Teaser on Computational Linguistics as a (widely unknown) study subject, its attractions and career paths*
- 2019 **Schwieriges Weltwissen. Um Sprache zu verstehen, brauchen Computer Alltagskenntnisse – die müssen ihnen mühsam beigebracht werden (World knowledge is difficult: computers need commonsense knowledge – but it’s tedious to teach them)**, Eva Wolfangel, Badische Zeitung (newspaper), 09.02.2019  
*Was wissen wir noch nicht? Ungelöste Fragen der Computerlinguistik (What is it that we do not know yet? – Open Issues in Computational Linguistics*, Series on open problems in different research fields. in: *Ruprecht* – Newspaper from and for students of Heidelberg University
- 2015 **Leibniz ScienceCampus: Festive Opening Event with 70 national and international guests**, press releases on the opening event of *Leibniz ScienceCampus* by Heidelberg University (news portal) and Rhein-Neckar-Zeitung (newspaper), 18.11.2015
- 2010 **Damit das “Navi” mit dem Fahrer spricht.**, Focus article on Computational Linguistics as a field of study (Interview with Prof. Frank). Die Rheinpfalz (newspaper). 30.04.2010
- 2007 **Nacht der Wissenschaft (Night of the Sciences): Computerlinguistik**, 9+ night hours of talks, demos and QA on what Computational Linguistics is and what you can do with it – for the interested public during the “Night of the Sciences” at Heidelberg University, 10.11.2007

#### Invited Talks

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1. *On the Need of Knowledge for Computational Argument Analysis and Generation*. Keynote at the 4th International Conference on Logic and Argumentation (CLAR 2021), Hangzhou, China, October 2021.
2. *Resolving Abstract Anaphors in Discourse – Uphill Battles with Neural Networks and Automatic Data Generation* Keynote at the Final Action Conference of the TextLink COST Action Initiative, Toulouse, March 2018.
3. *Classifying common sense knowledge relations and using them in NLP tasks*. Keynote at the DGfS Annual Conference, Stuttgart, March 2018.
4. *Computational Linguistic Methods in Digital Humanities*. First Summer School of Digital Humanities. Distant Reading - Potential and Applications, Heidelberg, September 2017.

5. *Modal Sense Classification at Large*. 60. Studentische Tagung Sprachwissenschaft (StuTS 2016), Universität Heidelberg, November 2016.
6. *King – man + woman = queen - Wie man Wortbedeutung berechnen kann*. Akademische Mittagspause der Universität Heidelberg 2016: Sprechen Sie Mathematik?, Juli 2016.
7. *Können, müssen, dürfen: Eine computerlinguistische Analyse der Bedeutungsvariation von Modalverben – im Kontext und in Textgenres*. 52. Jahrestagung des Instituts für Deutsche Sprache, Mannheim, März 2016.
8. *Recollections from SALSA – and beyond*. Symposium for Manfred Pinkal, Saarbrücken, Oktober 2014.
9. *Having a cake and eat it. Embedding formal semantics concepts in a relation classification approach*. Carpentry-Kolloquium (Geburtstagskolloquium für Thomas "Ede" Zimmermann, Frankfurt, September 2014.
10. *Corpus-based Learning of Presupposition Relations between Verbs*. Guest speaker in the Kolloquium of the Corpus Linguistics Research Group of the Humboldt-Universität zu Berlin, Mai 2013.
11. *Corpus-based Learning of Formal Semantic Concepts: Genericity and Presupposition*. Invited talk in the Linguistics Department Research Seminar, University of Geneva, April 2013.
12. *Annotation of Modal Meanings – where formal semantics can help and where it cannot*. Invited speaker of the IWCS 2013 Workshop "Annotation of Modal Meanings in Natural Language", Potsdam, March 2013.
13. *Corpus-based Learning of Formal Semantic Concepts: Genericity, Presupposition and more*. Invited talk in the Linguistics Colloquium of Ruhr-Universität Bochum, January 2013.
14. *Large-Scale Fine-Grained Named Entity Classification: Can we characterise the meanings of Named Entities and their classes distributionally?*. Invited talk at 10. Konferenz zur Verarbeitung natürlicher Sprache (KONVENS 2010), Saarbrücken, September 7, 2010.
15. *Syntaktische Variation - aus computerlinguistischer Sicht*. Workshop: Korpora und die Grammatik des Standarddeutschen. Institut für Deutsche Sprache, Mannheim, June 18, 2010.
16. *Networks of Linguistic Annotation: The Linguist's Web*. Invited talk at the Workshop ULA: Unified Linguistic Annotation –Transcontinental Perspectives, Bergen, December 5-6, 2007.
17. *Across Languages and Paradigms: New Perspectives for Resource Acquisition, Grammar Engineering and Application*. Invited talk at the ACL 2007 Workshop on Deep Linguistic Processing, Prague, June 28, 2007.
18. *Working with Frames: Annotating a German Corpus with Frames – and using them for NLP*. Invited talk at the Swedish Language Technology Conference Göteborg, Schweden, October 28, 2006.
19. *Approximating Textual Entailment with LFG and FrameNet Frames*. Invited talk at the Edinburgh Friday Seminars Talk Series, School of Computing, University of Edinburgh, March 2006.
20. *Syntax, Semantik und Multilingualität in der Computerlinguistik – Von Sprache zu Wissen*. University of Heidelberg, Germany, February 2006.
21. *Paradigmen syntaktischer und semantischer Verarbeitung*. University of Tübingen, Germany, January 2006.
22. *Multilingual QA: Querying Structured Knowledge Bases for Restricted Domains*. Seminaire TAL de Nancy (Computational Linguistics Seminar), LORIA, Nancy, France, December 2005.
23. *Frame Semantics in SALSA*. Institut für Linguistik, University of Potsdam, Germany, July 2005.
24. *Question Answering from Structured Knowledge Sources*. Japanese-German Workshop on Natural Language Processing, Schloss Eckberg, Dresden, Germany, February 2005.
25. *Building text-meaning representations from contextually related frames*. (with Aljoscha Burchardt) Institut für Maschinelle Sprachverarbeitung, University of Stuttgart, Germany, December 2004.

26. *Multi-level Annotation for Integrated Natural Language Processing*. German-Japanese Workshop on Natural Language Processing, Sapporo, Japan, July, 2003.
27. *Projecting LFG F-Structures from Chunks*. NLTT Research Group, Palo Alto Research Center, Palo Alto, California, USA, July 2003.
28. *Integrated Shallow and Deep Parsing*. NLTT Research Group, Palo Alto Research Center, Palo Alto, California, USA, July 2003.
29. *Shallow = Deep? Projecting LFG F-Structures from Chunks*. Fachbereich Sprachwissenschaft, University of Konstanz, Germany, January, 2003.
30. *A Discourse-Functional Analysis of Asymmetric Coordination*. Dublin Computational Linguistics Research Seminar, Trinity College, Dublin, Ireland, 2002.
31. *Eine (diskurs)funktionale Analyse asymmetrischer Koordinationen*. Fachbereich Sprachwissenschaft, University of Konstanz, Germany, January 2002.
32. *Linear-Logic based Semantics Construction for LTAG – and what it teaches us about the relation between LFG and LTAG*. Kolloquium des Fachbereichs Sprachwissenschaft, University of Konstanz, Germany, 2001.
33. *Ambiguity in Large-Scale LFG Grammars. Processing, Ranking, Filtering*. Computational Linguistics Department Colloquium, Saarland University, Saarbrücken, 2000.
34. *From Parallel Grammar Development towards Machine Translation*. MT Summit VII, Session: MT from the Research Perspective Kent Ridge Digital Labs, Singapore, 1999.
35. *Deontic Conditionals and Counterfactual Asymmetry*. Dublin Computational Linguistics Research Seminar, Trinity College, Dublin, Ireland, 1999.
36. *Transfer Constructors*. (with J. van Genabith) Workshop on Machine Translation, ESSLLI Summer School, Saarland University, Saarbrücken, Germany, August 1998.
37. *Transfer Architectures with LFG*. Dublin Computational Linguistics Research Seminar, Dublin City University, Dublin, Ireland, 1998.
38. *Comments on C. Gardent and B. Webber: Describing Discourse Semantics. Workshop on Underspecification*. Bad Teinach, Germany, May 1998.
39. *Principle-Based Semantics for HPSG. Workshop on Incrementality and Underspecification*. ESSLLI Summer School '94, Copenhagen, Denmark, August, 1994.
40. *Eine Syntax-Semantik-Schnittstelle in HPSG zur Konstruktion unterspezifizierter Diskursrepräsentationsstrukturen*. Kolloquium: Aktuelle Probleme der Computerlinguistik, University of the Saarland, Saarbrücken, Germany, 1992.
41. *Verbargumente und ihre (Un)Ordnung*. Kolloquium: Strukturelle und prozedurale Aspekte der Verbstellung, Schwerpunkt Kognitionswissenschaft der Universität Hamburg, Germany, 1992.

## Teaching

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### REGULAR CLASSES

- 2007-2012 **Introduction to Computational Linguistics**, Lectures with exercises, 4 SWS
- since 2008 **Formal Syntax**, Lectures with exercises, 4 SWS
- since 2013 **Formal and Computational Semantics**, Lectures with exercises, 4 SWS

### SEMINARS (SELECTION)

**Natural Language Generation**, Seminar  
**New Developments in NN Architectures and Representation Learning for NLU Tasks**, Seminar  
**Knowledge Acquisition and Inference for Complex NLP Tasks**, Seminar  
**New Developments in Semantic Parsing and Discourse Analysis**, Seminar  
**Semantic Discourse Processing**, Seminar  
**From Information Extraction to Deep Semantic Parsing**, Seminar  
**Semantic NLP – from a discourse perspective**, Seminar  
**Data-driven Methods in NLP**, Seminar

## Supervision

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### OVERVIEW

|                                     | in progress | completed |
|-------------------------------------|-------------|-----------|
| Habilitation                        |             | 1         |
| PhD Theses                          | 5           | 8         |
| – 2nd Advisor                       |             | 6         |
| – External reviewer & committees    |             | 13        |
| M.A. Theses                         | 2           | 43        |
| – of which with ensuing publication |             | 8         |
| B.A. Theses                         | 0           | 60        |
| – of which with ensuing publication |             | 6         |

### HABILITATION

**Dr. Sabine Tittel**

*Heidelberg University*

INTEGRATION VON HISTORISCHER LEXIKALISCHER SEMANTIK UND ONTOLOGIEN IN DEN DIGITAL HUMANITIES. MIT MATERIALIEN DES ALTFRANZÖSISCHEN, DES MITTELFRAZÖSISCHEN UND ALTGASCONISCHEN ALS LINKED DATA INS SEMANTIC WEB

2022

- Mentors: Prof. Dr. Sybille Große, Prof. Dr. Anette Frank; Prof. Dr. Vahram Atayan

### PHD THESES, ONGOING

2022-2025 **Moritz Plenz**, Computational Argumentation

2021-2024 **Xiyan Fu**, Generalized Event Representations & Inferential Knowledge for Event-based Reasoning

2021- **Phillip Richter-Pechanski**, Medical Information Extraction

2019-2024 **Letitia Parcalabescu**, Multimodal Fusion

2018-2022 **Juri Opitz**, Evaluation Metrics for Semantic Parsing and NL Generation

*expected 2022*

### PHD THESES, COMPLETED

**Debjit Paul**

*Heidelberg University*

SOCIAL COMMONSENSE REASONING WITH UNSTRUCTURED AND STRUCTURED KNOWLEDGE

2022

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Michael Strube

**Todor Mihaylov**

*Heidelberg University*

KNOWLEDGE-ENHANCED NEURAL NETWORKS FOR MACHINE READING COMPREHENSION

2022

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Sebastian Riedel

**Angel Daza**

*Heidelberg University*

CROSS-LINGUAL SEMANTIC ROLE LABELING THROUGH TRANSLATION AND MULTILINGUAL LEARNING

2021

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Sebastian Pado

- Maria Becker** *Heidelberg University*  
**BUILDING BRIDGES - RECONSTRUCTING IMPLICIT INFORMATION IN ARGUMENTATIVE TEXTS USING COMMONSENSE KNOWLEDGE** 2021  
 • Advisor and 1st Examiner: Prof. Dr. Anette Frank, 2nd Examiner: Prof. Dr. Andreas Witt
- Ana Marasović** *Heidelberg University*  
**DEEP LEARNING WITH SENTIMENT INFERENCE FOR DISCOURSE-ORIENTED OPINION ANALYSIS** 2019  
 • Advisor and 1st Examiner: Prof. Dr. A. Frank; 2nd Examiner: Prof. Dr. M. Strube; External Examiner: Prof. Dr. B. Webber
- Matthias Hartung** *Heidelberg University*  
**DISTRIBUTIONAL SEMANTIC MODELS OF ATTRIBUTE MEANING IN ADJECTIVES AND NOUNS** 2015  
 • Advisor & 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Sebastian Pado
- Nils Reiter** *Heidelberg University*  
**DISCOVERING STRUCTURAL SIMILARITIES IN NARRATIVE TEXTS USING EVENT ALIGNMENT ALGORITHMS** 2013  
 • Advisor and First Examiner: Prof. Dr. Anette Frank; Second Examiner: Prof. Dr. Sebastian Pado
- Michael Roth** *Heidelberg University*  
**INDUCING IMPLICIT ARGUMENTS VIA CROSS-DOCUMENT ALIGNMENT – A FRAMEWORK AND ITS APPLICATIONS** 2013  
 • Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Michael Strube
- COMPLETED PHD THESES: SECOND ADVISOR**
- Federico López** *Heidelberg University*  
**LEARNING NEURAL GRAPH REPRESENTATIONS IN NON- EUCLIDEAN GEOMETRIES** 2022  
 • 1st Advisor and Examiner: Prof. Dr. Michael Strube; 2nd Advisor and Examiner: Prof. Dr. A. Frank
- Bich-Ngoc Do** *Heidelberg University*  
**NEURAL TECHNIQUES FOR GERMAN DEPENDENCY PARSING** 2022  
 • 1st Advisor and Examiner: Dr. Ines Rehbein; 2nd Advisor and Examiner: Prof. Dr. A. Frank
- Benjamin Heinzerling** *Heidelberg University*  
**ASPECTS OF COHERENCE FOR ENTITY ANALYSIS** 2019  
 • 1st Advisor and Examiner: Prof. Dr. Michael Strube; 2nd Advisor and Examiner: Prof. Dr. Anette Frank
- Benjamin Börschinger** *Co-Tutelle Macquarie University and Heidelberg University*  
**EXPLORING HUMAN LEXICAL ACQUISITION USING BAYESIAN MODELLING** 2015  
 • 1st Advisor: Prof. Mark Johnson; 2nd Advisor: Prof. Dr. Anette Frank
- Aljoscha Burchardt** *Saarland University*  
**MODELING TEXTUAL ENTAILMENT WITH ROLE-SEMANTIC INFORMATION** 2008  
 • 1st Advisor: Prof. Dr. Manfred Pinkal; 2nd advisor: Prof. Dr. Anette Frank
- Stefanie Dipper** *University of Stuttgart*  
**IMPLEMENTING AND DOCUMENTING LARGE-SCALE GRAMMARS – GERMAN LFG** 2005  
 • 1st Advisor: Prof. Dr. C. Rohrer; 2nd advisor: PD Dr. Anette Frank
- EXTERNAL EXAMINER IN PHD COMMITTEES**
- 2022 **Sabine Weber: Unsupervised German Predicate Entailment Using The Distributional Inclusion Hypothesis**, Advisor: Prof. Mark Steedman; Internal Examiner: Alexandra Birch-Mayne, PhD., External Examiner: Prof. Dr. Anette Frank *University of Edinburgh*
- 2020 **Rik van Noord: Character-based Neural Semantic Parsing**, Advisor: Prof. Dr. Johan Bos; External Examiners: Prof. Dr. Michael Biehl, Prof. Dr. Anette Frank and Prof. Dr. Mirella Lapata *University of Groningen*
- 2020 **Viktor Alexander Judea: Global Inference and Local Syntax Representations of Events**, Advisor: Prof. Dr. Michael Strube; 2nd Examiner: Prof. Dr. Anette Frank *Heidelberg University*

- 2018 **Parvin Sadat Feizabadi: Strategies to Address Data Sparseness in Implicit Semantic Role Labeling**, Advisor: Prof. Sebastian Pado, Stuttgart University; 2nd Examiner: Prof. Anette Frank *Heidelberg University*
- 2017 **Chunyang Xiao: Neural-Symbolic Learning for Semantic Parsing**, Advisors: Claire Gardent, LORIA, Nancy and Marc Dymetman, Naver Labs Europe, Grenoble, France; External Examiners: Prof. Anette Frank, Heidelberg University and Prof. Mark Steedman, University of Edinburgh, UK *Université de Lorraine*
- 2015 **Britta Dorothee Zeller: Induction, Semantic Validation and Evaluation of a Derivational Morphology Lexicon for German**, Advisor: Prof. Dr. Sebastian Pado External Examiner: Prof. Dr. Anette Frank *Heidelberg University*
- 2015 **Angela Petra Fahrni: Joint Discourse-aware Concept Disambiguation and Clustering**, Advisor: Prof. Dr. Michael Strube; External Examiner: Prof. Dr. Anette Frank *Heidelberg University*
- 2013 **Jie Cai: Coreference Resolution via Hypergraph Partitioning**, Advisor: Prof. Dr. Michael Strube; External Examiner: Prof. Dr. Anette Frank *Heidelberg University*
- 2010 **Ineta Sejane: Wissensrepräsentation Linguistik. Modellierung, Potenzial und Grenzen am Beispiel der Ontologie zur deutschen Grammatik**, Advisor: Prof. Dr. C. v. Stutterheim; External Examiner: Prof. Dr. A. Frank *Heidelberg University*
- 2010 **Nathalie Schluter: Treebank-Based Deep Grammar Acquisition for French**, Advisor: Prof. Dr. Josef van Genabith; Internal Examiner: Dr. Deirdre Hogan; External Examiner: Prof. Dr. Anette Frank *Dublin City University, School of Computing*
- 2009 **Silke Scheible: A Computational Treatment of Superlatives**, Advisor: Prof. Bonnie Webber; Internal Examiner: Prof. Ewan Klein; External Examiner: Prof. Dr. Anette Frank *University of Edinburgh*
- 2007 **Gerd Fliedner: Linguistically Informed Question Answering**, Advisor: Prof. Dr. Manfred Pinkal; External Examiner: Prof. Dr. Anette Frank *Saarland University*
- 2005 **Frank H. Müller: A Finite State Approach to Shallow Parsing and Grammatical Functions Annotation of German**, Advisor: Prof. Dr. E. Hinrichs; External Examiner: PD Dr. Anette Frank *University of Tübingen*

#### M.A. THESIS SUPERVISION AND ENSUING PUBLICATIONS

- 2021 **Philipp Wiesenbach**, Can Invertible Neural Networks Bridge Modalities?
- 2020 **Julia Suter**, Employing the Scene Graph for Phrase Grounding.
- **Publication:** Suter, J., Parcalabescu, L., and Frank, A. (2021): *Grounding Plural Phrases: Countering Evaluation Biases by Individuation*. *Proceedings of the 2nd Workshop on Advances in Language and Vision Research (ALVR 2021) at NAACL 2021*, pp. 22–28.
- 2018 **Juri Alexander Opitz**, Solving Difficult Coreference Problems with a Siamese Neural Network.
- **Publication:** Opitz, J. and Frank, A. (2018): *Addressing the Winograd Schema Challenge as a Sequence Ranking Task*. *Proceedings of the 1st International Workshop on Language, Cognition and Computational Models (LCCM)*, New Mexico, pp. 41–52.
- 2017 **David Grimm**, Commonsense Relation Classification with Textual Evidence and Long Short-Term Memories along Shortest Dependency Paths.
- 2017 **Devon Fritz**, Simplifying Texts: Contextual Constraints on Modifier Deletion.
- **Publication:** Nastase, V., Fritz, D., and Frank, A. (2018): *DeModify: A Dataset for Analyzing Contextual Constraints on Modifier Deletion*. *Proceedings of the 11th Edition of the Language Resources and Evaluation Conference (LREC 2018)*, Miyazaki, Japan, pp. 1357–1363.
- 2014 **Ulzhan Kadirbayeva**, Graph-basierte Identifikation von Casts und Motive in literarischen Texten.
- 2013 **Éva Mújdricza-Maydt**, Extraktion einer ungarischen CCG-Bank und CCG-Grammatik.
- 2013 **Thomas Bögel**, A Joint Inference Architecture for Global Coreference Clustering with Anaphoricity.
- **Publication:** Bögel, T. and Frank, A. (2013): *A Joint Inference Architecture for Global Coreference Clustering with Anaphoricity*. *Language Processing and Knowledge in the Web, Proceedings of the German Society for Computational Linguistics, GSCL 2013*, Darmstadt, Germany, vol. 8105, Springer.
- 2013 **Albina Galeeva**, Lesearteninduktion für das Deutsche.
- 2013 **Oumar Mamadou Dia**, Experimente zur Lesarten-Induktion mit Topic- und Vektorraum Modellen.
- 2012 **Tatjana Moor**, Auflösung impliziter semantischer Rollen im Diskurs.
- **Publication:** Moor, T., Roth, M., and Frank, A. (2013): *Predicate-specific annotations for implicit role binding: corpus annotation, data analysis and evaluation experiments*. *Proceedings of the 10th International Conference on Computational Semantics*, Potsdam, Germany, pp. 369–375.
- 2011 **Yoro Ba**, Word sense disambiguation mit Wikipedia senses.
- 2011 **Cerem Cumhur**, Co-Training für Word Sense Disambiguierung.
- 2011 **Jonathan Geiger**, Unsupervised Learning of Narrative Schemas and Semantic Characterization of their Participants.
- 2011 **Anna Goryainova**, Recognition of temporal expressions using Machine Learning in a hybrid system architecture.
- 2011 **Carina Silberer**, Linking Implicit Semantic Roles in Discourse Using Coreference Resolution Methods.
- **Publication:** Silberer, C. and Frank, A. (2012): *Casting Implicit Role Linking as an Anaphora Resolution Task*. *Proceedings of \*SEM 2012: The First Conference on Lexical and Computational Semantics*, Montréal, Québec, Canada.



- 2011 **Antonina Werthmann**, Eigennamenerkennung und -klassifizierung für Lokationen im Deutschen.
- 2010 **Bistra Angelova**, Interlinguale Analyse von Levin-Verbklassen auf Basis von VerbNet.
- 2010 **Mouhamadou Lamine Ba**, Text Classification for small data sets and fine-grained categories. Help Obama answer questions.
- 2010 **Hanna Barysava**, Coverage Extension of the GUTime Temporal Expression Labeller.
- 2010 **Katarina Boland**, Entwicklung einer integrierten Repräsentation für synchrone sprachliche u. visuelle Generierung.
- 2010 **Dyanko Dyankov**, Extraktion und temporales Alignment von Events aus biographischen Texten.
- 2010 **Martin Frey**, Automatic classification of stage-level and individual-level predicates.
- 2010 **Elena Frick**, Automatische Annotation sprachlicher Variation.
- 2010 **Johannes Knopp**, Classification of Named Entities in a large multilingual resource using Wikipedia category system.
- 2010 **Anna Mazhayskaya**, Machine Learning of Temporal Relation Assignment.
- 2010 **Elena Neuschild**, Constructing Dependency-Based Structured Semantic Vector Spaces.
- 2010 **Klaus Suttner**, Ein hybrides Pagerank-Verfahren zur Word Sense Disambiguierung.
- 2010 **Sybille Reuter**, Maschinelle Lernverfahren für die Transliteration.
- 2010 **Armin Schmidt**, Verb Classification using Semantic Features.
- 2010 **Galina Tremper**, Weakly Supervised Learning of Presupposition Relations between Verbs.
- **Publication:** Tremper, G. (2010): *Weakly Supervised Learning of Presupposition Relations between Verbs. Proceedings of the ACL 2010, Student Research Workshop, Uppsala, Sweden, pp. 97–102.*
- 2010 **Dirk Weissmann**, Natural Language Processing in Automated Data Modeling.
- 2010 **Wolodja Wentland**, Named Entity Classification. A fine-grained taxonomy for multilingual Named Entity Classification using Wikipedia.
- 2009 **Anna Abykova**, Lernen syntaktischer Muster für die Extraktion von Attributen aus unstrukturierten Daten.
- 2009 **Olena Beck**, Extraktion von Informationen zur Terminabsprache aus Emails.
- 2009 **Victor Gabriel Saiz Castillo**, Akquisition von Paraphrasen mit Hilfe Paralleler Korpora.
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- 2009 **Artjom Klein**, Von Abhängenzstrukturen zu Konstituentenstrukturen: Automatische Generierung von Penn-Treebank-Bäumen aus LFG-F-Strukturen.
- 2009 **Michael Radeka**, Paralleles transformationsbasiertes Lernen: Kombination von Regelmengen mit einem korpusbasierten Selektionsverfahren.
- 2009 **Alina Tocarczyk**, Cross-lingual Projection of LFG F-Structures: Resource Induction for Polish.
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- 2009 **Shujun Wu**, Chinese Language Technology - Natural Language Processing and Question Answering.
- 2008 **Dorothee Reinhard**, Syntax und Semantik von Lokalisationsangaben im Bereich der topographischen Anatomie.
- 2008 **Marina Stegarescu**, Translation Memories und parallele Korpora: Induktion von Ressourcen und Optimierung.

## B.A. THESIS SUPERVISION AND ENSUING PUBLICATIONS

- 2022 **Nadia Arslan**, Towards a GLUCOSE Knowledge Graph – and the Power of it's Generalization.
- 2022 **Benjamin Beilharz**, Be Constructive, Helpful and Empathetic: Towards Situated Empathetic Dialogue Generation Grounded in Social and Moral Commonsense Knowledge.
- 2022 **Denis Logvinenko**, Extending AMR with Coreference Information Beyond the Sentence.
- 2021 **Leander Girrba**, Unsupervised contrastive learning of context sensitive embeddings from composition functions for English and German noun compounds.
- 2021 **Konstantin Henke**, Building and Improving an OCR Classifier for Republican Chinese Newspaper Text.
- 2021 **Katharina Korfhage**, Explicitation of Background Knowledge in Textual Sources by Assigning Contextually Grounded Commonsense Knowledge Relations.
- 2021 **Lilitta Muradjan**, Testing Vision and Language Models - Automatic Generation of FOIL Captions based on Semantic Roles.
- **Publication:** Parcalabescu, L., Cafagna, M., Muradjan, L., Frank, A., Calixto, I., and Gatt, A. (2022): *VALSE: A Task-Independent Benchmark for Vision and Language Models Centered on Linguistic Phenomena. Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics.*
- 2021 **Leon Schmidt**, Konnotierte FrameNet-Frames im Satzkontext.
- 2021 **Jan Stanicki**, Predicting Verb Veridicality in a Multi-task Approach.
- 2021 **Julius Unverfehrt**, Discovering Structure in Argumentative Datasets by Inducing Similarity Links.
- 2021 **Michael Zadikowitsch**, Ursachen von Emotionen - aus Sicht einer Maschine.

- 2021 **Laura Zeidler**, An Interpreted Dynamic Testsuite for the Evaluation of Semantic Similarity Metrics used in Parsing and Generation.
- **Publication:** Zeidler, L., Opitz, J. and Frank, A. (2022): *A Dynamic, Interpreted CheckList for Meaning-oriented NLG Metric Evaluation – through the Lens of Semantic Similarity Rating. Proceedings of the 11th Joint Conference on Lexical and Computational Semantics (\*SEM), co-located with NAACL 2022, Seattle, Washington.*
- 2020 **Nicolas Weber**, Recommending Neural Network Architectures Based on Scientific Problem Descriptions.
- 2020 **Siting Liang**, Layer-wise Relevance Propagation for Neural Natural Language Inference.
- 2019 **Caroline Berg**, Transferlernen für Diskursrelationsklassifikation im Deutschen durch Hilfe von Satzrepräsentationen aus unüberwachter Diskursmarkervorlage.
- 2019 **Muyan Guo**, ELMo for Psycholinguistics, Automatic analysis of conceptual features for motion events.
- 2019 **Ines Pisetta**, Erkennung (a)telischer Kontexte im Deutschen.
- 2019 **Tornike Tsereteli**, The masculine secretary asked the visitor to sign in: Dissecting Implicit Bias in Language Models.
- 2018 **Kai Hartung**, AMR Parsing with an Encoder-Decoder Model and MT-based Transfer to German.
- 2018 **Claudia Mickiewicz**, Tuning Word Embeddings for Improving Frame Identification.
- 2017 **Sebastian Burst**, Graph-basierte Verfahren für WSI / WSD.
- 2016 **Kai-Fabian Rudolf**, Annotation impliziter semantischer Rollen mit lokalen SRL Modellen.
- 2015 **Catarina Cramer**, A Graph-Based Method for linking GermaNet Verbs to FrameNet.
- 2015 **Damian Gorski**, Unsupervised Induction of Domain-Specific Narrative Schemas.
- 2015 **Juri Alexander Opitz**, Tracing Players and Themes in the Regesta Imperii.
- **Publication:** Opitz, J. and Frank, A. (2016): *Deriving Players Themes in the Regesta Imperii using SVMs and Neural Networks. Proceedings of the 10th Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH), Berlin, Germany, pp. 74–83.*
- 2015 **Sebastian Ruder**, Construction and Analysis of an Emotion Proposition Store.
- 2015 **Mengfei Zhou**, Cross-lingual Semi-Supervised Modality.
- **Publication:** Zhou, M., Frank, A., Friedrich, A., and Palmer, A. (2015): *Semantically Enriched Models for Modal Sense Classification. Proceedings of the EMNLP 2015 Workshop LSDSem: Linking Models of Lexical, Sentential and Discourse-level Semantics, Lisbon, Portugal.*
- 2014 **Julia Kreutzer**, Dimensionality Reduction in Semantic Vector Spaces Using a Derivational Resource.
- 2014 **Joseline Saamago**, Cross-linguale Akquisition von Verbrelationen.
- 2014 **Swetlana Stickhof**, Entity Recognition for Improved Entity Linking and New Entity Detection in Text Documents.
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- 2012 **Joachim Bingel**, Semantic Classification of Adverbs.
- 2012 **Lukas Funk**, Compiling a Benchmark Data Set for German Distributional Semantic Models.
- 2012 **Thomas Haider**, Emphatic Reflexive Pronouns in Combinatory Categorical Grammar.
- 2012 **Dustin Heckmann**, Citation Segmentation from Noisy Data using Joint Inference.
- **Publication:** Heckmann, D., Frank, A., Arnold, M., Gietz, P., and Roth, C. (2014): *Citation Segmentation from Sparse Noisy Data: A Joint Inference Approach with Markov Logic Networks. Digital Scholarship in the Humanities (formerly: Literary and Linguistic Computing).*
- 2012 **Madeline Christine Remse**, Computerlinguistische Sprachmodellierung für ein archäologisches Sequenzierungsproblem. Der Gürtelfund aus dem mittelalterlichen Erfurt.
- 2011 **Thomas Bögel**, Entity-based Coreference Resolution combined with Discourse-New Detection.
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- 2010 **Franziska Regner**, Evaluierung und Fehleranalyse eines unüberwachten Disambiguierungssystems für den Einsatz von Ensemble Learning Techniken.
- 2010 **Saskia Vola**, Word Sense Disambiguation für die wortbasierte Übersetzung.
- 2009 **Samuel Broscheit**, Adapting the Anaphora Resolution Toolkit BART to German.
- **Publication:** Broscheit, S., Ponzetto, S., Versley, Y., and Poesio, M. (2010): *Extending BART to provide a coreference resolution system for German. Proceedings of the 7th International Conference on Language Resources and Evaluation (LREC), Valletta,*

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- 2009 **Christine Neupert**, Evaluation von Salienzmaßen in einem machine-learning basierten Koreferenzsystem (BART).
- 2009 **Johannes Reichel**, Transkription von Namen im Arabischen.
- 2009 **Carsten Schnober**, Implementation spezieller Verfahren für die Extraktion biografischer Daten.
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- 2008 **Nykonova, Tetyana**, Ontologiebasierte Extraktion von Domänentermen und ihre Relationskontexte in Wikipedia.
- 2007 **Neuschild, Elena**, Topic Erkennung in Dialogen mit selbstorganisierenden Kanten.
- 2007 **Schmidt, Armin**, Statistical Machine Translation between new language pairs using Multiple Intermediaries.