Prof. Dr. Anette Frank

Chair of Computational Linguistics · Department of Computational Linguistics

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Education

University of Stuttgart — *Stuttgart, Germany*
Habilitation in Computational Linguistics — *2002*
- Advisor: Prof. Dr. Christian Rohrer, Prof. Dr. Hans Kamp

University of Stuttgart — *Stuttgart, Germany*
Dissertaton 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

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

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 2025	**Member of the Directors Board of the Heidelberg Center of Digital Humanities (HCDH)**,
2021 - 2024	**Member of the Executive Board of the DFG Priority Program RATIO: Robust Argumentation Machines**, 2nd project phase
2019 - 2024	**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 2024	**Action Editor for *ACL Rolling Review***, ARR
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, ESPRC
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

Best Paper Award Co-Chair for EACL 2027
Publicity Chair for ACL 2025
Area Chair for EMNLP 2024
Area Chair for ACL 2023
Area Chair for EACL 2023
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, ACL Rolling Review (ARR)
- 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, Summer Schools, and Shared Task Organization

2022 **Organization of a Shared Task on *Predicting the Validity and Novelty of Arguments* in the ArgMining Workshop**, Joint organization of the ACCEPT project teams, University of Bielefeld and Heidelberg.

2022 **Organization of the RATIO 2022 Symposium *Workshop on Inference and Summarization in Argumentation***, Oct 5th, University of Bielefeld.

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

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. Most recently she investigates central themes such as knowledge processing in NLP – from open domain in Computational Argumentation to specialized domains in clinical NLP; the challenges of multimodal image and language processing, and multilingual learning and alignment in Large Language Models, using methods of Mechanistic Interpretability. In recent interdisciplinary collaborations she investigates similarities and differences between AI systems and human cognition in relation to knowledge processing.

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 to multimodal NLP, a necessary stepping stone towards true Natural Language Understanding and investigating the mechanisms of knowledge processing in humans and AI models. Being fond of the Humanities, she often ventures into Digital Humanities research and applications – most recently with the *RAGE: Roman and Greek Emotions* project.

Current and Recent Research Themes

(Crosslingual) Language and Knowledge Processing in Human Cognition vs. AI Models

- Designing Graph Language Models (GLMs) for unified processing of text and structured knowledge graphs
- Investigating the induction of multilingual alignment using mechanistic interpretability methods
- Studying the differences and similarities of knowledge processing in Humanas and LLMs
- Multimodality in Natural Language Processing and Knowledge Acquisition

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 and Honors

2025 **Ruprecht-Karls Preis for Outstanding Scientific Dissertations**, *Measuring the Contributions of Vision and Text Modalities in Multimodal Transformers* by Letitia Parcalabescu.
Thesis Supervisor

2025 **GSCL Best Master Thesis Award**, *Investigating Language Models for Classical Philology: Aspects of Morphysyntax, Syntax, Knowledge from a Multilingual Perspective* by Frederick Riemenschneider.
Thesis Supervisor

2023 **GSCL Best Bachelor Thesis Award**, *An Interpreted Dynamic Testsuite for the Evaluation of Semantic Similarity Metrics used in Parsing and Generation* by Laura Zeidler.
Thesis Supervisor

2022 **Best Paper Award Nomination (among 4 runner-ups), 9th Workshop on Argument Mining (ArgMining)** , Heinisch, P., Plenz, M., Opitz, J., Frank, A., and Cimiano, P.: Data Augmentation for Improving the Prediction of Validity and Novelty of Argumentative Conclusions.

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: *Reconstrucing 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

2025 - 2026 **Marsilius Fellowship: Joint interdisciplinary Research Project, awarded by the *Marsilius-Kolleg***, *Efficient Knowledge Acquisition and Utilization in Human Cognition and Language Models*, Co-PIs: Kerstin Kunz (*Translation and Interpreting*) and Gordon Feld (*Cognitive NeuroScience*).

2025 - 2026 **AI and Translation: Comparing cognitive processes in the human brain to AI models – using the learning conditions of interpreters as a testing ground. Excellence Initiative, FoF III.**, PIs: Prof. Dr. Anette Frank, Prof. Dr. Kerstin Kunz, PD Dr. Gordon Feld (ZI Mannheim)

2024 **RAGE: Roman and Greek Emotions. Ein quantitativer Zugang zu Emotionen in der Klassischen Philologie.**
Excellence Initiative, FoF III. ,
PIs: Prof. Dr. Anette Frank, PD Dr. Thomas Kuhn-Treichel, Dr. Jonathan Geiger, Frederick Riemenschneider

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)

The Role of Context in Language Processing
2011 – 2012 **DFG Excellence Initiative: Global Networks**,
PIs: Anette Frank (Heidelberg University), Mark Johnson (Macquarie University)

Ontology Modeling for Ritual Structure Research
2009 – 2013 **DFG SFB 619: "Ritual Dynamics"** ,
PIs: Anette Frank (ICL), Axel Michaels (South Asia Institute), Heidelberg University

Sightsee: ***Synchronous Generation of Language and 3D-Scenes***
2008–2010 **DFG Excellence Initiative**,
PIs: A. Frank (ICL, HD Univ.), M. Strube (EML/HITS), S. Krömker (IWR, HD Univ.)

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.)
2009 - 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)

SALSA II: ***The Saarbrücken Lexical Semantics Acquisition Project***
2004–2007 **DFG Research Grant**,
PIs: Manfred Pinkal (University of the Saarland), Anette Frank (DFKI gGmbH)

Co-Project Leader

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 Anallyse natürlichsprachlicher Texte**,
DFKI gGmbH Saarbrücken & BMBF; Co-Project leader, PI: H. Uszkoreit

Membership in International Research Collaborations

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

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)

RAGE – Roman and Greek Emotions

A quantitative approach to emotions in classical philology

- PIs: Dr. Jonathan Geiger, PD Dr. Thomas Kuhn-Treichel, Frederick Riemenschneider, M.A., Prof. Anette Frank, all Heidelberg University; Project funded by the Excellence Initiative.

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

Overview

Journal articles	19
Book chapters	20
Monographs & books	3
Edited volumes	4
Peer-reviewed conference and workshop articles	140
Non-archival publications	1
No peer-reviewing	1
Outreach	2
	190

Journal Articles

1 Richter-Pechanski, P., Seiferling, M., Kiriakou, C., Schwab, D. M., Geis, A., Dieterich, D., Frank, A. (2025): Medication information extraction using local large language models. Journal of Biomedical Informatics, to appear. [code http]

2 Richter-Pechanski, P., Wiesenbach, P., Schwab, D. M., Kiriakou, C., Geis, N. A., Dieterich, C., and Frank, A. (2024): Clinical information extraction for Low-resource languages with Few-shot learning using Pre-trained language models and Prompting. Natural Language Processing. Cambridge University Press, published online 2024:1-24. [http]

3 Fu, X. and Frank, A. (2024): Exploring Continual Learning of Compositional Generalization in NLI. Transactions of the Association for Computational Linguistics, vol. 12, pp. 912–932, 2024. [http]

4 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.

5 Opitz, J., Daza, A. and Frank, A. (2021): Weisfeiler-Leman in the BAMBOO: Novel AMR Graph Metricsand a Benchmark for AMR Graph Similarity. Transactions of the Association for Computational Linguistics, 9, 1425–1441. [http]

6 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]

7 Opitz, J., Parcalabescu, L., and Frank, A. (2020): AMR Similarity Metrics from Principles. Transactions of the Association for Computational Linguistics, 8, 522–538. [http]

8 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, pp. 15–48. [http]

9 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]

10 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]

11 Roth, M. and Frank, A. (2015): Inducing Implicit Arguments from Comparable Texts: A Framework and its Applications. Computational Linguistics, 41, 625–664. [.pdf]

12 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]

13 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]

14 Tremper, G. and Frank, A. (2013): A Discriminative Analysis of Fine-Grained Semantic Relations including Presupposition: 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]

15 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 Publiscations. [.pdf]

16 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]

17 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]

18 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]

19 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

20. 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]

21. 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 an Frames. Applications in Linguistics and Philosophy, pp. 179–197, Studies in Linguistics and Philosophy, Springer. [http]

22. 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]

23. 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]

24. 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]

25. 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]

26. 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]

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No Peer-Reviewing

187. Richter-Pechanski, P., Wiesenbach, P., Schwab, D.M., Kiriakou, Ch., He, M., Geis, N.A., Frank, A. and Dieterich, Ch. (2023): Few-Shot and Prompt Training for Text Classification in German Doctor's Letters. Studies in Health Technology and Informatics, Volume 302: Caring is Sharing – Exploiting the Value in Data for Health and Innovation, pp. 819-820, IOS Press. [http]

Non-Archival

188. 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

189. Feld, G., Frank, A., Kunz, K. (2026): Wie Menschen und Maschinen lernen – Wie das menschliche Gehirn und KI-Sprachmodelle neues Wissen erwerben und konsolidieren, Jahrbuch des Marsilius-Kollegs 2025/26. [http]

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

Press and Media

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

2015 ***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

1. *Efficient Knowledge Acquisition and Utilization in Human Cognition and Language Models II*. Marsililuskolleg der Universität Heidelberg, Retreat der Fellowklasse 2025/26, Annweiler, Trifels, May 19th, 2026.
2. *Efficient Knowledge Acquisition and Utilization in Human Cognition and Language Models I*. Marsililuskolleg der Universität Heidelberg, Fellowklasse 2025/26, Annweiler, Heidelberg, December 8th, 2025.
3. *LLMs as Clinical Assistants? — How to develop and guide models to act as helpful and trustworthy agents in clinical routine*. Invited talk at the 10th Anniversary Celebration of KICC, Internationales Wissenschaftsforum Heidelberg, Heidelberg University, December 1st, 2025.
4. *Large Language Models: How to Assess and Address their Intransparency?* Invited talk in the Summerschool "AI and Human Values Exploring technological, social, and normative perspectives", at the Marsilius Academy, Heidelberg University, September 21–27, 2025.
5. *Large Language Models and Linguistic Insights.* Invited talk in the *Workshop on Large Language Models (LLMs) in Linguistic Theory*, on behalf of the *Award of an Honorary Doctorate to Annie Zaenen by the University of Konstanz*, University of Konstanz, October 2024.
6. *Reflections on interactions and the scientific influence of Hans Kamp's work, his influence as a teacher and supervisor, and my personal gratitude.* Address to the honor of Hans Kamp, for reception of the Rolf Schock Prize 2024 in Logic and Philosophy. Stuttgart, June 2024.
7. *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.
8. *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.
9. *Classifying common sense knowledge relations and using them in NLP tasks.* Keynote at the DGfS Annual Conference, Stuttgart, March 2018.
10. *Computational Linguistic Methods in Digital Humanities.* First Summer School of Digital Humanities. Distant Reading - Potential and Applications, Heidelberg, September 2017.
11. *Modal Sense Classification at Large.* 60. Studentische Tagung Sprachwissenschaft (StuTS 2016), Universität Heidelberg, November 2016.
12. *King – man + woman = queen - Wie man Wortbedeutung berechnen kann.* Akademische Mittagspause der Universität Heidelberg 2016: Sprechen Sie Mathematik?, Juli 2016.
13. *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.
14. *Recollections from SALSA – and beyond.* Symposium for Manfred Pinkal, Saarbrücken, Oktober 2014.

15. *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.
16. *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.
17. *Corpus-based Learning of Formal Semantic Concepts: Genericity and Presupposition.* Invited talk in the Linguistics Department Research Seminar, University of Geneva, April 2013.
18. *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 Languag", Potsdam, March 2013.
19. *Corpus-based Learning of Formal Semantic Concepts: Genericity, Presupposition and more.* Invited talk in the Linguistics Colloquium of Ruhr-Universität Bochum, January 2013.
20. *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.
21. *Syntaktische Variation - aus computerlinguistischer Sicht.* Workshop: Korpora und die Grammatik des Standarddeutschen. Institut für Deutsche Sprache, Mannheim, June 18, 2010.
22. *Networks of Linguistic Annotation: The Linguist's Web.* Invited talk at the Workshop ULA: Unified Linguistic Annotation –Transcontinental Perspectives, Bergen, December 5-6, 2007.
23. *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.
24. *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.
25. *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.
26. *Syntax, Semantik und Multilingualität in der Computerlinguistik – Von Sprache zu Wissen.* University of Heidelberg, Germany, February 2006.
27. *Paradigmen syntaktischer und semantischer Verarbeitung.* University of Tübingen, Germany, January 2006.
28. *Multilingual QA: Querying Structured Knowledge Bases for Restricted Domains.* Seminaire TAL de Nancy (Computational Linguistics Seminar), LORIA, Nancy, France, December 2005.
29. *Frame Semantics in SALSA.* Institut für Linguistik, University of Potsdam, Germany, July 2005.
30. *Question Answering from Structured Knowledge Sources.* Japanese-German Workshop on Natural Language Processing, Schloss Eckberg, Dresden, Germany, February 2005.
31. *Building text-meaning representations from contextually related frames*. (with Aljoscha Burchardt) Institut für Maschinelle Sprachverarbeitung, University of Stuttgart, Germany, December 2004.
32. *Multi-level Annotation for Integrated Natural Language Processing.* German-Japanese Workshop on Natural Language Processing, Sapporo, Japan, July, 2003.
33. *Projecting LFG F-Structures from Chunks.* NLTT Research Group, Palo Alto Research Center, Palo Alto, California, USA, July 2003.
34. *Integrated Shallow and Deep Parsing.* NLTT Research Group, Palo Alto Research Center, Palo Alto, California, USA, July 2003.

35. *Shallow = Deep? Projecting LFG F-Structures from Chunks.* Fachbereich Sprachwissenschaft, University of Konstanz, Germany, January, 2003.

36. *A Discourse-Functional Analysis of Asymmetric Coordination.* Dublin Computational Linguistics Research Seminar, Trinity College, Dublin, Ireland, 2002.

37. *Eine (diskurs)funktionale Analyse asymmetrischer Koordinationen.* Fachbereich Sprachwissenschaft, University of Konstanz, Germany, January 2002.

38. *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.

39. *Ambiguity in Large-Scale LFG Grammars. Processing, Ranking, Filtering.* Computational Linguistics Department Colloquium, Saarland University, Saarbrücken, 2000.

40. *From Parallel Grammar Development towards Machine Translation.* MT Summit VII, Session: MT from the Research Perspective Kent Ridge Digital Labs, Singapore, 1999.

41. *Deontic Conditionals and Counterfactual Asymmetry.* Dublin Computational Linguistics Research Seminar, Trinity College, Dublin, Ireland, 1999.

42. *Transfer Constructors.* (with J. van Genabith) Workshop on Machine Translation, ESSLLI Summer School, Saarland University, Saarbrücken, Germany, August 1998.

43. *Transfer Architectures with LFG.* Dublin Computational Linguistics Research Seminar, Dublin City University, Dublin, Ireland, 1998.

44. *Comments on C. Gardent and B. Webber: Describing Discourse Semantics. Workshop on Underspecification.* Bad Teinach, Germany, May 1998.

45. *Principle-Based Semantics for HPSG. Workshop on Incrementality and Underspecification.* ESSLLI Summer School '94, Copenhagen, Denmark, August, 1994.

46. *Eine Syntax-Semantik-Schnittstelle in HPSG zur Konstruktion unterspezifizierter Diskursrepräsenationsstrukturen.* Kolloquium: Aktuelle Probleme der Computerlinguistik, University of the Saarland, Saarbrücken, Germany, 1992.

47. *Verbargumente und ihre (Un)Ordnung.* Kolloquium: Strukturelle und prozedurale Aspekte der Verbstellung, Schwerpunkt Kognitionswissenschaft der Universität Hamburg, Germany, 1992.

Teaching

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
since 2023	**Cognitive Science Lecture Series (CAS Cognitive Science)**, Session 10: Natural Language Processing and Language Models – How do they relate to cognition?

Seminars (Selection)

Dear LLM, we have some questions!, Seminar
Natural Language Generation, Seminar
New Developments in NN Architectures and Representation Learning for NLU Tasks, Seminar
Neural Methods in NLP, 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

Extra-Curricular

Natural Language Processing and Language Models -– How do they relate to cognition?, Lecture in Cognitive Science - Heidelberg University Lecture Series.

Supervision

Overview

	in progress	completed
Habilitation		1
PhD Theses	4	12
— 2nd Advisor		7
— *External reviewer & committees*		*13*
M.A. Theses	4	48
– of which with ensuing *publication*		*10*
B.A. Theses	7	77
– of which with ensuing *publication*		*6*
	15	145

Habilitation

Dr. Sabine Tittel *Heidelberg University*

Integration von historischer lexikalischer Semantik und Ontologien in den Digital Humanities. Mit Materialien des Altfranzösischen, des Mittelfranzösischen 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

2026 – **Maya Arseven**, Knowledge representation, LLM Faithfulness and Safety
2024 – **Fabian Stobel**, Compumentational Methods for Transliteration and Transkription
2023 – **Frederick Riemenschneider**, Multilingual Language Models, Mechanstic Interpretability, Digital Humanities
2022 – **Moritz Plenz**, Computational Argumentation, LLMs and Knowledge Graphs *expected 2027*

PhD Theses, completed

Phillip Richter-Pechanski *Heidelbrg University*

On-Premise Medical Information Extraction from German Doctor's Letters under Clinical Constraints *2026*

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Christoph Dieterich

Xiyan Fu *Heidelberg University*

Understanding and Improving the Compositional Generalization Abilities of LLMs in Reasoning *2025*

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Kentaro Inui, PhD.
- Soon starting as: Postdoctoral researcher at Nanyang Technological University (NTU), Singapore

Letitia Parcalabescu *Heidelberg University*

Measuring the Contributions of Vision and Text Modalities in Multimodal Transformers *2024*

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Albert Gatt
- Holder of the Ruprecht-Karls-Preis 2025, among 5 awardees
- Now: Researcher at Aleph Alpha GmbH, Heidelberg

Juri Opitz *Heidelberg University*

Metrics of Graph-Based Meaning Representations with Applications from Parsing Evaluation to Explainable NLG Evaluation and Semantic Search *2023*

- Advisor and 1st Examiner: Prof. Dr. Anette Frank; 2nd Examiner: Prof. Dr. Sebastian Pado
- Now: Postdoctoral researcher at the University of Zurich's Computational Linguistics department

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
- Now: Research Scientist at Noah's Ark Lab, London

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
- Now: Research Scientist at Meta AI (Llama, GenAI), Menlo Park, California

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
- Now: Computer Systems Engineer, Netherlands EScienceCenter, Amsterdam

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
- Now: Postdoc leading CHAI Lab at Heidelberg University (Germanistik and Translation Departments)

Ana Marasoviç *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
- Now: Assistant professor at the University of Utah (leading UtahNLP)

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
- Now: Data Translator at Boehringer Ingelheim; (formerly) Co-founder of Semalytix

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
- Now: Professor for Digital Humanities and Computational Linguistics at University of Cologne

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
- Now: Professor for Natural Language Processing at Technical University Nürnberg (UTN)

Completed PhD Theses: Second Advisor

Wei Liu *Heidelberg University*

Linguistically-Inspired Neural Coherence Modeling *2025*

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

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

Viktor Alexander Judea *Heidelberg University*

Global Inference and Local Syntax Representations for Event Extraction *2021*

- 1st Advisor and Examiner: Prof. Dr. Michael Strube; 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 *Macquarie and Heidelberg Univ.*

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

2025 **Siyana Pavlova: Toward Scalable Semantic Annotation: Bridging Readability and a Wide Range of Phenomena into a Layered Meaning Representation**, Advisors: Prof. Maxime Amblard, Dr. Bruno Guillaume; Reviewers: Prof. Marie Candito; Prof. Nicholas Asher; Members of Jury: Prof. Lucia Donatelli, Prof. Anette Frank *Université de Lorraine, LORIA, France*

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

2026 **Maya Ceren Arseven**, GLM-RAG: Graph Language Models for KG-based Retrieval-Augmented Generation.

- ***Publication:*** *Arseven, M., Frank, A., Egressy, B., Higl, J., and Plenz, M. (2026): GLM-RAG: Graph Language Models for Graph-Based Retrieval-Augmented Generation. Proceedings of the 5th Asia-Pacific Chapter of the Association for Computational Linguistics & the 15th International Joint Conference on Natural Language Processing (AACL-IJCNLP 2026), Hengqin, China.*

2024 **Janosch Gehring**, Building a Structured Argumentative Knowledge Base for Generating Perspectivized Argumentative Dialogues Using a Large Language Model.

2024 **Natalia Minakova**, Harvesting German clinical knowledge from pre-trained LMs.

2023 **Frederick Riemenschneider**, Investigating Language Models for Classical Philology. Aspects of Morphology, Syntax, and Knowledge from a Multilingual Perspective. ***GSCL 2025 Best Master Thesis Award****

- ***Publication:*** *Riemmenschneider, F. and Frank, A. (2023): Exploring Large Language Models for Classical Philology. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL'23), Toronto, Canada*

2023 **Philipp Leon Alfred Meier**, Predicting Veridicality in a Joint Textual-Symbolic Neural Inference and Generation Architecture.

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**, Leseartenindukt ion 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.
2009 **Maria Guiliano**, Natürlichsprachige Datenbankschnittstellen: Syntaxbasierte Datenbankabfrage aus restringierten Domänen.
2009 **Artjom Klein**, Von Dependenzstrukturen 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 Tocarcyk**, Cross-lingual Projection of LFG F-Structures: Resource Induction for Polish.
- ***Publication:*** *Wróbleska, A. and Frank, A. (2009): Cross-Lingual Projection of LFG F-Structures: Building an F-Structure Bank for Polish. Passarotti, M., Przepiórkowski, A., Raynaud, S., and Eynde, F. (eds.), Proceedings of the 8th International Workshop on Treebanks and Linguistic Theories (TLT8), Milan, Italy, pp. 209–220.*

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

2026 **Feisal Ahmad**, The Role of Clinical Entity and Abbreviation Handling in German-to-English Clinical Letter Translation
2026 **Emma-Li Kreuß**, Document Coherence Graphs for Analyzing Sylistic Differences in Ancient Latin Texts
2026 **Mirko Sommer**, Interpreting Failures of Multimodal Reasoning in Vision-Language Models
2025 **Dominik Grosse**, Forget Me Not: Preventing Catastrophic Forgetting in LLMs via a Graph Memory
2025 **Mattea Mayer**, How well do LLMs understand Knowledge Relations? Measuring the Inferential Capabilities of LLMs for Specific Relation Types
2025 **Mira Umlauf**, (How) Does Multi-Token Prediction Pre-Training Mirror Human-Like Language Learning Capabilities?
2025 **Yuka Wolter**, How Well and How Do LMs Understand Ambiguity?
2025 **Jasmin Wiese**, Analyzing and Compressing Reasoning Modules in Self-Discover
2025 **Lisa Jockwitz**, Exploring CoT-Decoding for Investigation of LLM Faithfulness
2024 **Sophia Wikinger**, Relation Extraction through Synthetic Data Generation with Large Language Models

2024 **Georg Piersig**, Automatic Prediction of Cognitive Processing Complexity for Multilingual Sentence Understanding
2024 **Sihan Wu**, Aligning Counterfactual Stories with Commonsense Knowledge for Probing the Reasoning Capability of a Language Model.
2024 **Anna Katharina Engel**, Factuality Evaluation of LLMs through Atomic Fact Verification
2023 **Hannes Fischer**, Exploring Knowledge Resources and Fact Selection in Retrieval-Augmented Approaches to Commonsense Reasoning Tasks.
2023 **Mingyang He**, Leveraging Prompts for Section Classification in Doctoral Discharge Letter
2023 **Merit Wolfsteiner**, Generating Questions about Semantic Role Fillers from Declarative Sentences.
2023 **Raziye Sari**, Interpretability in NLP.
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 Girrbach**, 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. ***GSCL 2023 Best Bachelor Thesis Award****

- ***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.
2013 **Hamdiye Arslan**, Temporale Annotation narrativer Texte: Vergleich zwischen Fabeltexten und Ritualtexten.
2013 **Eleftherios Matios**, Aspect-Based Sentiment Analysis of Online Reviews.
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 Categorial 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.
2011 **Éva Mújdricza-Maydt**, Experimente zu semantischen Ähnlichkeitsmaßen für feingranulare Named Entity Klassifikation.
2011 **Maria Semenchuk**, Annotation und Analyse anaphorischer Bindung impliziter semantischer Rollen in Weginstruktionen.
2010 **Nicolas Bellm**, Semi-Supervised Learning zur Induktion von morphologischen und Part-of-Speech Informationen.
2010 **Jens Burkhardt**, Automatische Extraktion domänenspezifischer Terme auf Basis kombinierter Relevanzmaße.
2010 **Mateusz Dolata**, Extending the Entity-Grid Model for the processing of implicit roles in discourse.
2010 **Marius Iuresi**, TempusQuaestio: Modellierung und Implementierung einer timporalen Anfragesprache zur Dokumentensuche.
2010 **Christoph Oechsler**, Vergleichende Analyse und Kombination von Werkzeugen für die linguistische Annotation.
2010 **Xiaoxi Pang**, Ontologische Modellierung der Semantik von Adjektiven.
2010 **Sonja Pfisterer**, Strategien zur automatischen Disambiguierung morphologischer Ambiguitäten auf Basis der Xerox FST Linguistic Suite.
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, Malta.*

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.
2008 **David Beyer**, Experimente zur automatischen Akquisition von Word-Net-Glossen auf Basis einer Verknüpfung von Word-Net mit Wikipedia.
2008 **Andreas Bogacki**, Konstruktion Semantischer Graphen aus Texten auf Basis einer Ontologie.
2008 **Svetlana Dedova**, Experimente, Verfeinerungen und Analyse zu einem Klassifikator für Sentiment Analysis.
2008 **Heimann, Yvonne**, Einfluss semantischer Annotationen mit Named Entities auf die Wortstellungsgenerierung im Deutschen.
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.