

## Personal Information

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## Employment History

starting in 03/2024 **Full Professor** (Universitätsprofessor, W3) and Chair for Fundamentals of Natural Language Processing, Faculty for Information Systems and Applied Computer Science, University of Bamberg

04/2023 – 02/2024 appointed as **außerplanmäßiger Professor** (Adjunct Professor with post-doctoral qualifications, status as a professor and authority to supervise theses, ≈ associate professor), University of Stuttgart

07/2020 – 04/2023 appointed as **Privatdozent** (scientist with a habilitation degree and a qualification as a university lecturer), University of Stuttgart

12/2017 – 02/2024 **Senior Lecturer**, Akadem. Oberrat, Beamter auf Lebenszeit (tenured) Institut für Maschinelle Sprachverarbeitung, University of Stuttgart

10/2015 – 11/2017 **Lecturer**, Akademischer Rat, Beamter auf Lebenszeit (tenured) Institut für Maschinelle Sprachverarbeitung, University of Stuttgart

02/2016 – 11/2021 **Cooptation**, CITEC, Bielefeld University

10/2014 – 09/2015 **Substitute Professor** (W2 from 04/2014) Institut für Maschinelle Sprachverarbeitung, University of Stuttgart

05/2015 – 07/2020 **Co-Founder** Semalytix GmbH, Bielefeld

03/2017, 03/2018, 04/2018 **Visiting Lecturer** (Erasmus+/LCT Erasmus Mundus) Institute of Linguistics, University of Malta

01/2013 – 09/2014 **Postdoctoral Researcher** Bielefeld University, CITEC Intelligente Technische Systeme OstWestfalenLippe, It's OWL, BMBF

03/2010 – 06/2010 and 10/2013 – 12/2013 **Visiting Scholar** University of Massachusetts, Amherst, USA

01/2011 – 12/2012 **Postdoctoral Researcher and Project Leader** Fraunhofer SCAI, Department Bioinformatics, St. Augustin Policy Simulation in Virtual Spaces, +Spaces, EU FP7

08/2006 – 12/2010 **Doctoral Researcher** Fraunhofer SCAI, Department Bioinformatics, St. Augustin

## Education

07/2020 **Habilitation** in Computer Science, Faculty of Computer Science, Electrical Engineering and Information Technology, University of Stuttgart

08/2006 – 05/2011 **Doctoral Studies (Dr. rer. nat.)** at TU Dortmund University, Faculty of Computer Science, Supervisor Prof. Dr. Günter Rudolph (grade “Sehr gut”, equivalent to magna cum laude)

10/1999 – 06/2006 **Studies of Computer Science (Dipl. Inform.)** with minor subject **Psychology** at Dortmund University, grade “Sehr gut” (1.1, best mark is 1.0)

06/1999 **Abitur** at Reinhard und Max Mannesmann Gymnasium, Duisburg

## Grants

2024 – 2027 DFG: Interactive Prompt Optimization with the Human in the Loop for Natural Language Understanding Model Development and Intervention (INPROMPT). Applicant/Principle Investigator. 340,959 EUR

2024 – 2027 DFG: User’s Choice of Images and Text to Express Emotions in Twitter and Reddit (ITEM). Applicant/Principle Investigator. 457,620 EUR

2024 – 2027 DFG: The Interplay of Emotions and Convincingness in Argument Mining for NLP (EMCONA). Applicant/Principle Investigator, cooperation with Steffen Eger. Own amount: 380,304 EUR

2021 – 2025 DFG: Computational Event Analysis based on Appraisal Theories for Emotion Analysis (CEAT). Applicant/Principle Investigator. 329,528 EUR

2021 – 2024 DFG: Automatic Fact Checking for Biomedical Information in Social Media and Scientific Literature (FIBISS). Applicant/Principle Investigator. 314,946 EUR

2018 – 2021 DFG: Structured Multi-Domain Emotion Analysis from Text (SEAT). Applicant/Principle Investigator. 286,820 EUR

2017 – 2020 DFG: Comprehensive Modeling of Conversational Contributions in Prose Texts (QUOTE). Co-Investigator with Applicant Sebastian Padó. 285,600 EUR

2016 – 2018 RiSC (Research Seed Capital) program of State Ministry of Baden-Württemberg for Sciences, Research and Arts and University of Stuttgart: KABI – Confidence Estimation for Biomedical Information Extraction. Principal Investigator. Own Amount: 96,676 EUR

2016 – 2020 BMBF programm i:DSEM: Automatically Populating a Preclinical Spinal Cord Injury Knowledge Base to Support Clinical Translation (PSINK). Bielefeld University. Co-Principal Investigator with PI Philipp Cimiano. Own: 519,798 EUR

2014 Industrial Project: Sentiment Analysis for Distance Education Evaluation (SADE), Bielefeld University. Principal Investigator. 3,324 EUR.

## Awards and Scholarships

2022 Runner-up for best paper award at ArgMining Workshop at COLING

2018 Acknowledged as top reviewer ACL 2018

2018 Students’ Choice for Excellence in Teaching (Institute for Natural Language Processing)

2018 NLDB Best Paper Award

2018 LCT Erasmus Scholarship (University of Malta)

2017 WASSA-2017 Shared Task on Emotion Intensity, Place 2/21

2017 Erasmus+ Scholarship (University of Malta)

2016 Best innovation and transfer project, SEMANTiCS Conference, with Semalytix GmbH

2016	Best paper award, Semantic Sentiment Analysis Workshop, ESWC
2010	PhD Short Term Scholarship, UMass Amherst, DAAD
2009	RANLP Nomination for “Best Student Paper”
2008	ISCB Travel Scholarship for ISMB, U.S. Department of Energy
2007	BioCreative Shared Task on Named Entity Recognition, Place 4/19
2006	CIMMACS “Best Student Paper”

## Scientific Service

Institutional Responsibilities	Chairman of the Board of Examiners Computational Linguistics 2023–2026; Debuty Chairman of the Board of Examiners Computational Linguistics 2023; Member of the Study Commission, 2018–2025; Lecture scheduling for B.Sc. and M.Sc. programs at IMS, since 2015; Organization of the weekly joint meeting of the IMS, 2014–2015
Member	European Laboratory for Learning and Intelligent Systems (ELLIS); Association for Computational Linguistics (ACL); German Society for Computational Linguistics and Language Technology (GSCL); Center for Reflected Text Analytics (CRETA) e.V.; Deutscher Hochschulverband
Co-Chair	Tutorial Co-Chair, COLING-LREC 2024 Special Interest Group on German Sentiment Analysis. 2014–2016
(Co-)Organizer	Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA) 2018, 2019, 2022, 2023 People in language, vision and the mind (ONION) 2020 WASSA Shared Task on Implicit Emotion Analysis 2018 IGGSA-Shared Task on German Sentiment Analysis 2014
Senior Area Chair	EACL 2024 (Sentiment Analysis, Stylistic Analysis, and Argument Mining), EACL 2023 (Language Resources and Evaluation), ACL 2022 (Sentiment Analysis, Stylistic Analysis, and Argument Mining), EACL 2021 (Sentiment Analysis and Argument Mining)
Area Chair, Senior PC Member	NeurIPS 2023, COLING 2022, NAACL 2021, COLING 2018, AKBC 2019, ACL 2020, EMNLP 2020, IJCAI 2017, 2018
Action Editor	Transactions of the ACL 2023–2025, ACL Rolling Review 2021–2022
Reviewer for Funding Agencies	Vienna Science and Technology Fund, Bayerische Forschungsförderung, Swiss National Science Foundation, Deutsche Forschungsgemeinschaft, German-Israeli Foundation for Scientific Research and Development, German Academic Exchange Service
Reviewer for Journals (Selection)	Journal for Artificial Intelligence Research, Computational Linguistics Journal, IEEE Transactions on Affective Computing, Transactions of the Association for Computational Linguistics, Natural Language Engineering, Journal of Bioinformatics, Journal of Biomedical Informatics, BMC Bioinformatics
Regular Reviewer and Program Committee Member in Conferences and Workshops (selection)	ARR, EMNLP, NAACL, EACL, ACL, IJCAI, AAAI, CoNLL, DH, COLING, WASSA, W-NUT, SocialNLP, KONVENS, SIGCHI

## Invited Talks (Selection)

- Natural Language Processing Tasks and Methods – Challenges for Emotion Analysis and Generation. Trier. December 2023. (invited talk)

- Emotions are Events and Events trigger Emotions – Appraisal Theories for Emotion Classification in Text. DFKI/Berlin. June 2021 (invited talk)
- Towards an Event-centric Interpretation of Emotions. University of Hildesheim, Online-Tagung: Interdisziplinäre Perspektiven auf Hate Speech und ihre Erkennung (IPHSE). February 2021 (invited talk)
- Emotion Modelling in Text and Social Media – The Contribution of Psychological Models. Online lectures on “Sentiment Analysis in Literary Studies”, University of Graz. February 2021 (keynote talk)
- Show-don’t-tell – How emotions are communicated in text and how psychological theories can help us in computational emotion analysis. 31st Meeting of Computational Linguistics in The Netherlands (CLIN 31). July 2021 (keynote talk)
- Machine Reading: Von der Schwarmintelligenz zu individualisiertem Medizinwissen Eingeladener Vortrag und Podiumsdiskussion auf der Veranstaltung “Das Gehirn der Zukunft: Künstliche Intelligenz und Medizin der FAZ und der Hertie Stiftung”, Uni Tübingen, September 2019 (invited talk)
- Emotion Analysis between Academia, Industry, Linguistics, Humanities, and Computer Science (AI2Future), Zagreb, Croatia. October 2018 (invited keynote)

April 9, 2024

## Publications

Links to [\[Google Scholar Profile\]](#) [\[Semantic Scholar\]](#) [\[PubMed\]](#) [\[DPLG\]](#) [\[ACL Anthology\]](#)

Google Scholar Metrics:

Citations: 3808 ; h-index: 34 ; i10-index: 72

### Theses

Klinger, R. (2020). “Structured Modelling of Affect in Text”. Cumulative Habilitation. University of Stuttgart. [url](#).

Klinger, R. (2011). *Conditional Random Fields for Named Entity Recognition - Feature Selection and Optimization in Biology and Chemistry*. Fraunhofer Series in Information and Communication Technology. PhD. Thesis at University of Dortmund. Aachen, Germany: Shaker. [url](#).

Klinger, R. (2006). *Automatische Komposition von Musik mit Methoden der Computational Intelligence*. Tech. rep. TR06-2-008. ISSN 1864-4503, Technical Report. Department of Computer Science, University of Dortmund. [url](#).

### Edited Volumes

Barnes, J., O. De Clercq, V. Barriere, S. Tafreshi, S. Alqahtani, J. Sedoc, R. Klinger, and A. Balahur, eds. (May 2022). *Proceedings of the 12th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis*. Dublin, Ireland: Association for Computational Linguistics. [url](#).

Paggio, P., A. Gatt, and R. Klinger, eds. (May 2020). *Proceedings of LREC2020 Workshop “People in language, vision and the mind” (ONION2020)*. Marseille, France: European Language Resources Association (ELRA). ISBN: 979-10-95546-70-2. [url](#).

Balahur, A., R. Klinger, V. Hoste, C. Strapparava, and O. D. Clercq, eds. (June 2019). *Proceedings of the Tenth Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*. Minneapolis, USA: Association for Computational Linguistics. [url](#).

Balahur, A., S. M. Mohammad, V. Hoste, and R. Klinger, eds. (2018). *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*. Brussels, Belgium: Association for Computational Linguistics. [url](#).

### Journal Articles

Troiano, E., R. Klinger, and S. Padó (Sept. 2023). “On the Relationship between Frames and Emotionality in Text”. In: *Northern European Journal of Language Technology* 9.1. [doi](#). [url](#).

Troiano, E., L. Oberländer, and R. Klinger (Mar. 2023). “Dimensional Modeling of Emotions in Text with Appraisal Theories: Corpus Creation, Annotation Reliability, and Prediction”. In: *Computational Linguistics* 49.1. [doi](#). [arXiv](#). [url](#).

Velutharambath, A., K. Sassenberg, and R. Klinger (Sept. 2023). “Prevention or Promotion? Predicting Author’s Regulatory Focus”. In: *Northern European Journal of Language Technology* 9.1. [doi](#). [url](#).

Troiano, E., A. Velutharambath, and R. Klinger (2022). “From theories on styles to their transfer in text: Bridging the gap with a hierarchical survey”. In: *Natural Language Engineering*, pp. 1–60. [doi](#). [arXiv](#).

Barnes, J. and R. Klinger (Nov. 2019). “Embedding Projection for Targeted Cross-Lingual Sentiment: Model Comparisons and a Real-World Study”. In: *Journal of Artificial Intelligence Research* 66, pp. 691–742. [doi](#). [arXiv](#). [url](#).

Ehrlicher, H., R. Klinger, J. Lehmann, and S. Padó (2019). “Measuring Historical Emotions and Their Evolution: An Interdisciplinary Endeavour to Investigate The ‘Emotions of Encounter’”. In: *Laboratório Interdisciplinar sobre Informação e Conhecimento em revista (Liinc em revista)* 15.1. [doi](#). [url](#).

- Horst, H. ter, M. Hartung, P. Cimiano, N. Brazda, H. W. Müller, and R. Klinger (2019). “Learning Soft Domain Constraints in a Factor Graph Model for Template-based Information Extraction”. In: *Data & Knowledge Engineering* 125, p. 101764. doi.
- Kim, E. and R. Klinger (2019). “A Survey on Sentiment and Emotion Analysis for Computational Literary Studies”. In: *Zeitschrift fuer Digitale Geisteswissenschaften* 4. doi. arXiv.
- Kicherer, H., M. Dittrich, L. Grebe, C. Scheible, and R. Klinger (2018). “What You Use, Not What You Do: Automatic Classification and Similarity Detection of Recipes”. In: *Data and Knowledge Engineering*. url.
- Bagewadi, S., T. Bobić, M. Hofmann-Apitius, J. Fluck, and R. Klinger (2014). “Detecting miRNA Mentions and Relations in Biomedical Literature [version 3; referees: 2 approved, 1 approved with reservations]”. In: *F1000Research* 3.205. doi. url.
- Bobic, T. and R. Klinger (2013). “Committee-based Selection of Weakly Labeled Instances for Learning Relation Extraction”. In: *Research in Computing Science* 70. Proceedings of the Conference on Intelligent Text Processing and Computational Linguistics, pp. 187–197. url.
- Thomas, P. E., R. Klinger, L. I. Furlong, M. Hofmann-Apitius, and C. M. Friedrich (2011). “Challenges in the association of human single nucleotide polymorphism mentions with unique database identifiers”. In: *BMC Bioinformatics* 12(Suppl 4).S4. doi.
- Kolarik, C., R. Klinger, and M. Hofmann-Apitius (Jan. 2009). “Identification of Histone Modifications in Biomedical Text for Supporting Epigenomic Research”. In: *BMC Bioinformatics* 10.S28. Proceedings of the Asia Pacific Bioinformatics Conference (APBC). doi.
- Hofmann-Apitius, M., J. Fluck, L. Furlong, O. Fornes, C. Kolarik, S. Hanser, M. Boecker, S. Schultz, F. Sanz, R. Klinger, T. Mevissen, T. Gatterneyer, B. Oliva, and C. Friedrich (2008). “Knowledge Environments Representing Molecular Entities for the Virtual Physiological Human”. In: *Philosophical Transactions of the Royal Society A*. PMID 18559317. doi.
- Klinger, R., C. Kolarik, J. Fluck, M. Hofmann-Apitius, and C. M. Friedrich (2008). “Detection of IUPAC and IUPAC-like Chemical Names”. In: *Bioinformatics* 24.13. Proceedings of the International Conference Intelligent Systems for Molecular Biology (ISMB)., pp. i268–i276. doi.
- Smith, L., L. K. Tanabe, R. J. nee Ando, C.-J. Juo, I.-F. Chung, C.-N. Hsu, Y.-S. Lin, R. Klinger, C. M. Friedrich, K. Ganchev, M. Torii, H. Liu, B. Haddow, C. A. Struble, R. J. Povinelli, A. Vlachos, W. A. Baumgartner Jr., L. Hunter, B. Carpenter, R. T.-H. Tsai, H.-j. Dai, F. Liu, Y. Chen, C. Sun, S. Katrenko, P. Adriaans, C. Blaschke, R. T. Perez, M. Neves, P. Nakov, A. Divoli, M. Mana, J. Mata-Vazquez, and W. J. Wilbur (Sept. 2008). “Overview of BioCreative II Gene Mention Recognition”. In: *Genome Biology* 9.Suppl 2, S2.2–S2.18. ISSN: 1465-6906. doi. url.
- Klinger, R., L. I. Furlong, C. M. Friedrich, H. T. Mevissen, J. Fluck, F. Sanz, and M. Hofmann-Apitius (Dec. 2007). “Identifying Gene Specific Variations in Biomedical Text”. In: *Journal of Bioinformatics and Computational Biology* 5.6. PMID 18172929, pp. 1277–1296. doi.
- Klinger, R. and G. Rudolph (Mar. 2007). “Automatic Composition of Music with Methods of Computational Intelligence”. In: *Transactions in Information Science and Applications* 4.3, pp. 508–515.

### Conference Papers (including independent workshops)

- Bagdon, C., P. Karmalkar, H. Gurulingappa, and R. Klinger (June 2024). ““You are an expert annotator”: Automatic Best–Worst-Scaling Annotations for Emotion Intensity Modeling”. In: *Proceedings of the 2024 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*. accepted. Mexico City, Mexico: Association for Computational Linguistics. url.
- Velutharambath, A., A. Wüthrl, and R. Klinger (2024). “Can Factual Statements be Deceptive? The DeFaBel Corpus of Belief-based Deception”. In: *Proceedings of the the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING)*. accepted. Turin, Italy. arXiv.
- Wemmer, E., S. Labat, and R. Klinger (2024). “EmoProgress: Cumulated Emotion Progression Analysis in Dreams and Customer Service Dialogues”. In: *Proceedings of the the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING)*. accepted. Turin, Italy. url.

- Wührl, A., Y. Menchaca Resendiz, L. Grimminger, and R. Klinger (Mar. 2024). “What Makes Medical Claims (Un)Verifiable? Analyzing Entity and Relation Properties for Fact Verification”. In: *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (Volume 1: Long Papers)*. Ed. by Y. Graham and M. Purver. St. Julian’s, Malta: Association for Computational Linguistics, pp. 2046–2058. [arXiv](#). [url](#).
- Klinger, R. (2023). “Emotionsklassifikation in Texten unter Berücksichtigung des Komponentenprozessmodells”. de. In: *Digitale Hate Speech*. Ed. by S. Jaki and S. Steiger. Berlin, Heidelberg: Springer Berlin Heidelberg, pp. 131–154. ISBN: 978-3-662-65963-2 978-3-662-65964-9. [doi](#). [url](#).
- Menchaca Resendiz, Y. and R. Klinger (Sept. 2023). “Affective Natural Language Generation of Event Descriptions through Fine-grained Appraisal Conditions”. In: *Proceedings of the 16th International Conference on Natural Language Generation*. Prague, Czech Republic: Association for Computational Linguistics. [arXiv](#). [url](#).
- Kadiķis, E., V. Srivastav, and R. Klinger (July 2022). “Embarrassingly Simple Performance Prediction for Abductive Natural Language Inference”. In: *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*. Seattle, United States: Association for Computational Linguistics, pp. 6031–6037. [arXiv](#). [url](#).
- Mohr, I., A. Wührl, and R. Klinger (June 2022). “CoVERT: A Corpus of Fact-checked Biomedical COVID-19 Tweets”. In: *Proceedings of the Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, pp. 244–257. [arXiv](#). [url](#).
- Papay, S., R. Klinger, and S. Pado (2022). “Constraining Linear-chain CRFs to Regular Languages”. In: *International Conference on Learning Representations*. [arXiv](#). [url](#).
- Plaza-del-Arco, F. M., M.-T. Martín-Valdivia, and R. Klinger (Oct. 2022). “Natural Language Inference Prompts for Zero-shot Emotion Classification in Text across Corpora”. In: *Proceedings of the 29th International Conference on Computational Linguistics*. Gyeongju, Republic of Korea: International Committee on Computational Linguistics, pp. 6805–6817. [arXiv](#). [url](#).
- Troiano, E., L. A. M. Oberlaender, M. Wegge, and R. Klinger (June 2022). “x-enVENT: A Corpus of Event Descriptions with Experiencer-specific Emotion and Appraisal Annotations”. In: *Proceedings of the Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, pp. 1365–1375. [arXiv](#). [url](#).
- Wührl, A. and R. Klinger (June 2022). “Recovering Patient Journeys: A Corpus of Biomedical Entities and Relations on Twitter (BEAR)”. In: *Proceedings of the Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, pp. 4439–4450. [arXiv](#). [url](#).
- Casel, F., A. Heindl, and R. Klinger (June 2021). “Emotion Recognition under Consideration of the Emotion Component Process Model”. In: *Proceedings of the 17th Conference on Natural Language Processing (KONVENS 2021)*. Düsseldorf, Germany: KONVENS 2021 Organizers, pp. 49–61. [arXiv](#). [url](#).
- Doan Dang, B. M., L. Oberländer, and R. Klinger (June 2021). “Emotion Stimulus Detection in German News Headlines”. In: *Proceedings of the 17th Conference on Natural Language Processing (KONVENS 2021)*. Düsseldorf, Germany: KONVENS 2021 Organizers, pp. 73–85. [arXiv](#). [url](#).
- Wührl, A. and R. Klinger (2021). “Claim Detection in Biomedical Twitter Posts as a Prerequisite for Fact-Checking”. In: *Proceedings of the BioCreative VII Challenge Evaluation Workshop*. [arXiv](#). [url](#).
- Bostan, L. A. M., E. Kim, and R. Klinger (May 2020). “GoodNewsEveryone: A Corpus of News Headlines Annotated with Emotions, Semantic Roles, and Reader Perception”. English. In: *Proceedings of The 12th Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, pp. 1554–1566. ISBN: 979-10-95546-34-4. [arXiv](#). [url](#).
- Haider, T., S. Eger, E. Kim, R. Klinger, and W. Menninghaus (May 2020). “PO-EMO: Conceptualization, Annotation, and Modeling of Aesthetic Emotions in German and English Poetry”. English. In: *Proceedings of The 12th Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, pp. 1652–1663. [arXiv](#). [url](#).
- Hofmann, J., E. Troiano, K. Sassenberg, and R. Klinger (Dec. 2020). “Appraisal Theories for Emotion Classification in Text”. In: *Proceedings of the 28th International Conference on Computational Linguistics*. Barcelona, Spain (Online): International Committee on Computational Linguistics, pp. 125–138. [doi](#). [arXiv](#). [url](#).

- Klinger, R., E. Kim, and S. Padó (2020). “Emotion Analysis for Literary Studies”. In: *Reflektierte algorithmische Textanalyse*. Berlin, Boston: De Gruyter, pp. 237–268. [doi](#). [url](#).
- Oberländer, L. A. M. and R. Klinger (Dec. 2020). “Token Sequence Labeling vs. Clause Classification for English Emotion Stimulus Detection”. In: *Proceedings of the Ninth Joint Conference on Lexical and Computational Semantics*. Barcelona, Spain (Online): Association for Computational Linguistics, pp. 58–70. [arXiv](#). [url](#).
- Papay, S., R. Klinger, and S. Padó (Nov. 2020). “Dissecting Span Identification Tasks with Performance Prediction”. In: *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Online: Association for Computational Linguistics, pp. 4881–4895. [doi](#). [arXiv](#). [url](#).
- Sabbatino, V., L. A. M. Bostan, and R. Klinger (May 2020). “Automatic Section Recognition in Obituaries”. English. In: *Proceedings of The 12th Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, pp. 817–825. [arXiv](#). [url](#).
- Troiano, E., R. Klinger, and S. Padó (Dec. 2020). “Lost in Back-Translation: Emotion Preservation in Neural Machine Translation”. In: *Proceedings of the 28th International Conference on Computational Linguistics*. Barcelona, Spain (Online): International Committee on Computational Linguistics, pp. 4340–4354. [doi](#). [url](#).
- Cevher, D., S. Zepf, and R. Klinger (2019). “Towards Multimodal Emotion Recognition in German Speech Events in Cars using Transfer Learning”. In: *Proceedings of the 15th Conference on Natural Language Processing (KONVENS 2019): Long Papers*. Erlangen, Germany: German Society for Computational Linguistics & Language Technology, pp. 79–90. [arXiv](#). [url](#).
- Kim, E. and R. Klinger (June 2019). “Frowning Frodo, Wincing Leia, and a Seriously Great Friendship: Learning to Classify Emotional Relationships of Fictional Characters”. In: *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long and Short Papers)*. Minneapolis, Minnesota: Association for Computational Linguistics, pp. 647–653. [arXiv](#). [url](#).
- McHardy, R., H. Adel, and R. Klinger (June 2019). “Adversarial Training for Satire Detection: Controlling for Confounding Variables”. In: *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long and Short Papers)*. Minneapolis, Minnesota: Association for Computational Linguistics, pp. 660–665. [arXiv](#). [url](#).
- Troiano, E., S. Padó, and R. Klinger (July 2019). “Crowdsourcing and Validating Event-focused Emotion Corpora for German and English”. In: *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics*. Florence, Italy: Association for Computational Linguistics, pp. 4005–4011. [arXiv](#). [url](#).
- Adel, H., L. A. M. Bostan, S. Papay, S. Padó, and R. Klinger (Oct. 2018). “DERE: A Task and Domain-Independent Slot Filling Framework for Declarative Relation Extraction”. In: *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*. Brussels, Belgium: Association for Computational Linguistics. [url](#).
- Barnes, J., R. Klinger, and S. Schulte im Walde (July 2018a). “Bilingual Sentiment Embeddings: Joint Projection of Sentiment Across Languages”. In: *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Melbourne, Australia: Association for Computational Linguistics, pp. 2483–2493. [arXiv](#). [url](#).
- Barnes, J., R. Klinger, and S. Schulte im Walde (2018b). “Projecting Embeddings for Domain Adaption: Joint Modeling of Sentiment Analysis in Diverse Domains”. In: *Proceedings of the 27th International Conference on Computational Linguistics*. Santa Fe, New Mexico, USA: Association for Computational Linguistics, pp. 818–830. [arXiv](#). [url](#).
- Bostan, L. A. M. and R. Klinger (2018). “An Analysis of Annotated Corpora for Emotion Classification in Text”. In: *Proceedings of the 27th International Conference on Computational Linguistics*. Santa Fe, New Mexico, USA: Association for Computational Linguistics, pp. 2104–2119. [url](#).
- Hartung, M., H. ter Horst, F. Grimm, T. Diekmann, R. Klinger, and P. Cimiano (July 2018). “SANTO: A Web-based Annotation Tool for Ontology-driven Slot Filling”. In: *Proceedings of ACL 2018, System Demonstrations*. Melbourne, Australia: Association for Computational Linguistics, pp. 68–73. [url](#).



- Kim, E. and R. Klinger (2018). “Who Feels What and Why? Annotation of a Literature Corpus with Semantic Roles of Emotions”. In: *Proceedings of the 27th International Conference on Computational Linguistics*. Santa Fe, New Mexico, USA: Association for Computational Linguistics, pp. 1345–1359. [url](#).
- Strohm, F. and R. Klinger (Oct. 2018). “An Empirical Analysis of the Role of Amplifiers, Downtoners, and Negations in Emotion Classification in Microblogs”. In: *The 5th IEEE International Conference on Data Science and Advanced Analytics, Special Track on Sentiment, Emotion, and Credibility of Information in Social Data*. DSAA. IEEE. Turin, Italy. [doi](#). [arXiv](#).
- Ter Horst, H., M. Hartung, R. Klinger, N. Brazda, H. W. Müller, and P. Cimiano (2018). “Assessing the Impact of Single and Pairwise Slot Constraints in a Factor Graph Model for Template-based Information Extraction”. In: *Natural Language Processing and Information Systems: 23rd International Conference on Applications of Natural Language to Information Systems, NLDB 2018, Paris, France, June 13-15, 2018, Proceedings*. Cham: Springer International Publishing. [url](#).
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### Workshop Papers

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## Teaching

### Tutorials at Conferences and Summer Schools

- Emotion Analysis in Text, Tutorial at EACL 2023, Dubrovnic (with Sanja Stajner)
- Uncertainty in Artificial Intelligence: Introduction to Probabilistic Graphical Models, CITEC Summer School, Bielefeld University 2013

### Lectures, Seminars, Exercises

#### Otto-Friedrich-Universität Bamberg

- Lecture and Exercises: "Emotion Analysis". SS 2024, M.Sc.
- Lecture and Exercises: "Information Retrieval and Text Mining". SS 2024, M.Sc. and B.Sc.

#### Universität Stuttgart

- Lecture: "Emotion Analysis". WS 2019/2020, WS 2020/2021, WS 2021/2022, WS 2022/2023  
M.Sc. Computational Linguistics, M.Sc. Digital Humanities
- Vorlesung und Übung: "Information Retrieval and Text Mining".  
WS 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020, 2020/2021, 2021/2022, 2022/2023  
B.Sc. Informatik, Medieninformatik, Data Science, Maschinelle Sprachverarbeitung, Software Engineering, M.Sc. Informatik, Computer Science, Digital Humanities, Data Science, Computational Linguistics
- Vorlesung und Übung: "Algorithmisches Sprachverstehen".  
SS 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023  
B.Sc. Maschinelle Sprachverarbeitung, M.A. Digital Humanities, B.Sc. Medieninformatik
- Vorlesung und Seminar: "Probabilistic Graphical Models in Natural Language Processing".  
SS 2015, 2016, 2017. M.Sc. Computational Linguistics
- Übung: Team Lab NLP. SS 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023  
M.Sc. Computational Linguistics
- Seminar: "Emotion Analysis and Affective Computing". WS 2016/2017, 2017/2018  
M.Sc. Computational Linguistics, B.Sc. Maschinelle Sprachverarbeitung, M.Sc. Digital Humanities
- Seminar: "Biomedical Natural Language Processing". WS 2015/2016, 2016/2017  
M.Sc. Computational Linguistics, B.Sc. Maschinelle Sprachverarbeitung
- Project Medieninformatik: "Emotion Tracking & Analysis Text Mining Toolkit".  
WS/SS 2016, 2017  
B.Sc. Medieninformatik
- Praxisprojekt Bachelor: "Large Scale Sentiment Analysis on Product Reviews". WS 2014/2015  
B.Sc. Maschinelle Sprachverarbeitung

#### University of Malta

- Vorlesung: "Statistical Emotion Analysis", Spring 2019  
B.Sc./M.Sc. Students Computational Linguistics und M.Sc. Erasmus LCT
- Vorlesung: "Probabilistic Graphical Models in Natural Language Processing", Spring 2017, 2018  
B.Sc./M.Sc. Students Computational Linguistics und M.Sc. Erasmus LCT

## Universität Bielefeld

- Project group: "A large-scale processing pipeline for information extraction from biomedical articles with an application to spinal chord injury treatment", with Matthias Hartung and Philipp Cimiano. 2013–2014
- Lecture: "Statistical Natural Language Processing", with John McCrae. SS 2014
- Seminar: "Sentiment Analysis and Opinion Mining", SS 2013

## University of Massachusetts Amherst

- Guest Lectures on Maximum Entropy Classification Models und Sentiment Analysis in Andrew McCallum's Lecture on Statistical Natural Language Processing, Winter Term 2013

## Bonn-Aachen International Center for Information Technology, Rheinische Friedrich-Wilhelms-Universität Bonn

- Seminar "Knowledge Discovery Technologies", with Dr. Philipp Senger und Prof. Dr. Martin Hofmann-Apitius, SS 2011.
- "Machine Learning and Information Extraction" in lecture "Life Science Knowledge Discovery" of Prof. Dr. Martin Hofmann-Apitius, SS 2011, 2012.
- "Named Entity Recognition with Machine Learning Methods" in lecture "Life Science Knowledge Discovery" of Prof. Dr. Martin Hofmann-Apitius, SS 2007, 2008, 2009.

## Supervision and Advising

(bold face: main responsible adviser)

### Postdoctoral Researcher

- Ghazaal Sheikhi. Visiting Postdoc from University of Bergen. Norway, for 2 months in 2022.
- **Camilo Thorne Freundt**. Confidence Estimation in Relation Extraction. 2016–2018

### Ph.D. Students

- **Lynn Greschner**: "Arguments and Emotions" (started 2023)
- Sofie Labat, guest from U Ghent for three months in 2022.
- Andreas Nugaard Holm, guest from U Copenhagen for three months in 2022.
- **Yarik Menchaca-Resendiz**: "Conditional Language Generation" (started 2021), funded by DAAD scholarship.
- **Amelie Wühl**: "Biomedical Fact Checking" (started 2021), funded by DFG Project FIBISS.
- **Aswathy Velutharambath**: "Style Transfer of Psychological Concepts" (started 2020), external thesis with 100W GmbH.
- **Enrica Troiano**: "Emotion Style Transfer/Events and Affect" (expected to submit 2022), EmoArg project (with Sebastian Padó).



- **Laura Ana Maria Oberländer:** “Structured Emotion Analysis” (expected to submit 2022), funded by DFG Project SEAT and CEAT.
- Flor Miriam Plaza del Arco, guest from U Jaen for three months in 2021.
- Felix Armbrust: “Deep Sustainable Finance: An Analysis of Financial and Environmental Narratives within Corporate Disclosures” (2021), collaboration with the Department of Financial Management, second supervisor.
- **Evgeny Kim:** “Emotions in literature: computational modelling in the context of genres and characters” (2020), funded by CRETA/BMBF
- Jeremy Barnes: “Cross-lingual Sentiment Analysis for Under-resourced Languages” (2019), guest from UFP for one year in 2017/2018.

## Project Staff

- **Fazlourrahman Balouchzahi:** Project CEAT, since 05/2023

## Master’s Student Theses

- Lara Grimminger: “Mononucleosis”, “Mono”, or “Kissing Disease”? Clinical Text Simplification with Lexical Replacement. 2023 (with Amelie Wuehrl)
- Itisha Yadav. 2023
- Eileen Wemmer. Progressions of Emotion Annotations in Conversations and Dreams for Emotion Analysis. 2023 (with Sofie Labat)
- Olivia Gabor: Zero-shot Text Classification for Mental Health Conditions. 2023
- Jasvinder Singh: Entity Linking on Tweets for Biomedical Data. 2022 (with Amelie Wüehrl)
- Christina Hitzl: Target Detection of Hate Speech and Offensive Language in Tweets. 2022 (with Flor Miriam Plaza del Arco)
- Xanat Herrera Luján: Prompt Engineering for Zero-Shot Learning using Explainability Methods. 2022 (with Flor Miriam Plaza del Arco)
- Valentino Sabbatino: Emotion Classification of Non-Sense Words. 2022 (with Antje Schweitzer)
- Alina Braitmaier: Wie beeinflusst die kulturelle Zugehörigkeit eines Annotators seine subjektive Entscheidung? 2022 (with Enrica Troiano)
- Christina Hitzl: Target detection of hate speech and offensive language in tweets. 2022 (with Flor Miriam Plaza del Arco)
- Olivia Gabor: Zero-shot text classification for mental health conditions. 2023
- Jyothsna C Vijayendra: Distributed and Contextual Representations of Musical Chord Sequences. 2021 (with Lukas Lange, Heike Adel, Jannik Strötgen at Bosch AI)
- Isabelle Mohr: Fact-Checking Biomedical COVID-19 Tweets. 2021 (with Amelie Wüehrl)
- Changxu Duan: Semi-supervised Learning for Event-centered Emotion Analysis. 2021 (with Jan Eisenberg at Bosch)
- Bao Minh Doan Dang: German Emotion Stimulus Detection. 2021 (with Laura Oberlaender)
- Tordis Daum: The difference between text and reader emotion: An in-depth analysis of the emotion-trigger-relationship. 2021 (with Laura Oberlaender)
- Kang Cheng: Multilingual Text Emotion Analysis for Chinese and English. 2021
- Sherry Tan: Cross-Lingual Classification of Concepts related to Patient’s Quality of Life on Social Media. 2021 (with Matthias Hartung and at Semalytix)
- Anne Kreuter: Psychometric tests for predicting psychological traits of social media users. 2021

- King DeLany: Social Media Mining with Emotion Analysis for the Automotive Domain. 2021 (with Daimler)
- Amelie Wuehrl: Biomedical Claim Detection. 2020
- Felix Casel: Emotion Recognition in Literature, informed with the Emotion Component Model, 2020
- David Helbig: Emotion transfer in text. 2020 (with Enrica Troiano)
- Elena Rogleva: Information Retrieval for the Movie Domain. 2019
- Deniz Cevher: Multi-modal emotion recognition in car environments (with Sebastian Zepf at Daimler), 2019
- Aysoltan Gravina: Emotion Classification Using Feature-Based Domain Adaptation For Model Introspection (with Laura Bostan) 2019
- Jan Wessling: Towards Natural Language Dialogs: An Automatic Evaluation of Naturalness within Spoken Dialog Systems (with Daimler)
- Zhanruo Qu: Transfer Learning and Domain Adaptation for Emotion Detection (with Laura Bostan). 2019
- Sina Brandstetter: Predicting the political stream of parliamentary speech under the consideration of emotion. 2018
- Naveen Kumar: Emotion Recognition in Twitter with Text and Image Information. 2017
- Roozbeh Bandpey: Emotion Analysis of Tweets With Co-extraction of Holder, Cause and Effect of Emotions. 2017
- Mariia Kashpur: Is there logic in emotions: Can deep sentence structure features inspired by the OCC model help in detecting emotions in texts? 2017
- Anna Moskvina: Patient Profiling and Health Risk Factor Detection in Social Media. 2017 (with Janik Jaskolski, Semalytix GmbH)
- Johannes Schäfer: Probabilistic Extraction of Do-It-Yourself Activities as n-ary Relations from Domain-specific Texts. Master's Thesis. 2017 (with Uli Heid and Robert Bosch GmbH)
- Yan Yang: Predicting the Complexity of Software Problem Reports. Master's Thesis. 2017 (with Sebastian Padó and IBM)
- Hanna Kicherer: Classification of Recipes. Master's Thesis. 2016 (with Chefkoch GmbH, with Christian Scheible)
- Iman Zeinali Nia: Inducing a Model for Fine-Grained Sentiment Analysis in Farsi by Cross-language Annotation Projection. Master's Thesis. Uni Stuttgart. 2016
- Arif Ijaz: Extracting Drug Adverse Effect Induced Medication from Social Media. Master's Thesis. Uni Stuttgart. 2016
- Surayya Samat Suliya: Automatische Erkennung und Vergleich des Verlaufs von Emotionen in literarischen Werken. Diplomarbeit. Uni Stuttgart. 2016
- Kiril Atanassov: Aspect-based Opinion Mining for Electronic Games. Master's Thesis. Uni Stuttgart (with Christian Scheible). 2016
- Nyamsuren Davaasambuu: Automatische Gruppierung von Aspektnennungen in Produktbewertungen. Master's Thesis. Uni Stuttgart (with Wiltrud Kessler). 2016
- Mario Koos: Methods for Compound Splitting: A Comparative View in the Area of Text Mining. Master's Thesis. Uni Hohenheim. 2015. (second referee, Stefan Kirn and Martin Riekert)
- Mario Sänger: Aspect-based Sentiment Analysis of Mobile Application Reviews. Master's Thesis. HU Berlin. 2015. (with Ulf Leser and Heiko Ehrig (Neofonie); received the award for the best Master's thesis at the computer science department of HU Berlin in the year 2015))
- Serbay Ekinoglu: Automatic identification, extraction and classification of E-mobility topics in online german fora. Master's Thesis. Universität Stuttgart. 2015. (with Andrea Horch (Fraunhofer) and Sebastian Padó)

- Hendrik ter Horst: Ranked Protein-Disease Relations Using Machine-Learning. Master's Thesis. Bielefeld University. 2015 (with Philipp Cimiano and Matthias Hartung)
- Tarek Kirchoff: Spinal Cord Injury Ontology. Medical Doctoral Dissertation (DDS). HHU Düsseldorf. started 2013 (with Nicole Brazda and Hans Werner Müller)
- Janik Jaskolski. A machine learning approach to sentiment analysis for distance education evaluation. Master's Thesis. Bielefeld University. 2014 (with Philipp Cimiano)
- Shweta Bagewadi. University of Bonn. 2012 (with Juliane Fluck and Martin Hofmann-Apitius)
- Tim Rocktäschel. Joint Extraction of Proteins and Bio-Molecular Events using Imperatively Defined Factor Graphs. Diplomarbeit. HU Berlin. 2012 (with Philippe Thomas and Ulf Leser; received the award for the best Master's thesis at the computer science department of HU Berlin in the year 2012)
- Tamara Bobić. A generic workflow for relation extraction by light supervision in biomedical text. Master's Thesis (and succeeding Ph.D. supervision). University of Bonn. 2012 (with Martin Hofmann-Apitius and Holger Fröhlich)
- Sumit Madan. Stimmungs- und Themenerkennung in politischen Debatten. Master's Thesis. University of Applied Sciences Bonn/Rhein-Sieg. 2012 (with Ralf Thiele)
- Robert Pesch. Logische Strukturerkennung in biomedizinischen Volltext-Publikationen. Master's Thesis. University of Applied Sciences Bonn/Rhein-Sieg. 2010 (together with Ralf Thiele)
- Aravind Tallam. Extraction of Numerical Measures, Statistical Evidences and Units. Master's Thesis. University of Bonn. 2009. (together with Christoph M. Friedrich and Martin Hofmann-Apitius)
- Verena Meyer. Extraktion, Klassifikation und empirischer Vergleich von Textabschnitten im biomedizinischen Bereich. Magisterarbeit. University of Bonn. 2009. (together with Juliane Fluck)
- Philippe Thomas. Automated extraction of variation mentions from literature sources and mapping to a unique database identifier. Master's Thesis. University of Tübingen. 2008. (together with Christoph M. Friedrich, Martin Hofmann-Apitius and Kay Nieselt (Tübingen))

## Bachelor's Student Theses

- Tobias Schiebel: Influence of Claims and their Truthfulness on Engagement in Social Media. 2022
- Beate Zywiets: How human-like are text-based emotion classifiers? 2021
- Felix Klenk: Erkennung von Product Placements in YouTube-Videos mithilfe von Sequence Labeling. 2021
- Lara Grimminger: Analysis of pre-election Twitter messages in terms of party affiliation and hate speech. 2021
- Maximilian Maurer: Explicit Content Detection (with Erenay Dayanik). 2020
- Michael Bittner: Multimodel Active learning for emotion recognition. 2020
- Amelie Heindl: Recognition of Emotions based on the Emotion Component Model. 2020
- Hai Dang Nguyen: Multi task learning of emotion classification. 2020
- Lujan Miquel: Prediction of Conflicts in Social Media. 2020
- Jan Hofmann: Multi-task emotion classification using multi-dimensional emotional models. 2020
- Alin Roman: Generating Tweets conditioned on Emotion and Topic. 2020
- Lars Buttgerit: Will this tweet be deleted? 2019
- Valentino Sabbatino: Recognizing the zones in obituaries and the impact of emotion analysis. (with Laura Bostan) 2019
- Julia Christoph: A User-oriented Semantic Search Engine for Company Policies. (with Daimler) 2019
- Robert McHardy: Automatische Erkennung von satirischen Nachrichtenartikeln. 2018
- Elias Zaied: Emotional Networks of Fictional Characters (with Evgeny Kim). 2018
- Marco Eckey (TU Dortmund, with Igor Vatolkin)

- Shu Xing: Open Information Extraction for Relation Identification of Biomedical Entities. 2017
- Florian Strohm: The Impact of Intensifiers, Diminishers, and Negations on Emotion Expressions. 2017
- Marietta Hamberger: How Psychiatric Medication Influences the Tweets of Consumers. Bachelor's Thesis. 2016
- Julian Liedtke: Concept Drift and Domain Adaptation to Improve Emotion, Sentiment, and Irony Detection on Twitter. Bachelor's Thesis. 2016
- Alexander Bernhardt: Focused Crawling with Active Learning. Bachelor's Thesis. Uni Stuttgart. 2016
- Constantin Seibold: Improving Co-Citation Clustering by Citation Classification. Bachelor's Thesis. Uni Stuttgart. 2016
- Min Xu: Automatische Klassifikation von Twiternachrichten zu Arzneimitteln. Bachelorarbeit. Uni Stuttgart. 2016
- Omar Abada: Identifying Irony in German Tweets. Bachelor's Thesis. Uni Stuttgart. 2016
- Jan Wessling: Development of a System for Quality Estimation of Automatically Generated Texts. Bachelor's Thesis. Uni Stuttgart (with Aexea GmbH). 2016
- Jenniger Ling: Eine korpusbasierte Analyse zur Unterscheidung von Ironie und Sarkasmus (A Corpus-based Analysis to differentiate irony and sarcasm). Bachelor's Thesis. Uni Stuttgart. 2015
- Surayya Samat Suliya: Vergleichende Frequenzanalyse von Emotionsnennungen in Literatur von Franz Kafka. Studienarbeit. Uni Stuttgart. 2015.
- Christian Witte: Auswirkung des aktiven Lernens auf die Merkmalsselektion bei Textklassifikation. Bachelor's Thesis. Bielefeld University. 2014 (with Matthias Hartung)
- Konstantin Buschmeier: Entwicklung eines Systems zur Erkennung von Ironie in Text. Bachelor thesis. Bielefeld University. 2013 (with Philipp Cimiano)

### **Member of Examination Committee of Doctoral Students**

- Sean Papay, Dr. rer. nat., Uni Stuttgart, 2023, Second Reviewer
- Nils Rethmeier, Ph.D., University of Copenhagen, 2023, External Reviewer
- Lisa Kühnel, Dr. rer. nat., Bielefeld University, 2023, External Reviewer
- Lukas Lange, Dr.-Ing., Universität des Saarlandes, March 2022, External Reviewer
- Sapna Negi, Ph.D., NUI Galway, March 2018, External Reviewer