

Martin Schmitt

Graduate researcher

✉ martin@cis.lmu.de
🌐 www.cis.lmu.de/~martin
🐱 github.com/mnschmit

Education

- 2016–present **Computer Science, Ph.D.**, Ludwig-Maximilians-Universität München.
Supervisor: Prof. Dr. Hinrich Schütze. Expected graduation in 09/2021.
Ph.D. topic *Computational Models of Relations in Texts and Knowledge Graphs for Logical Reasoning and Graph-Text Conversion*
- 2014–2016 **Computer Science, Master of Science**, Friedrich-Alexander-Universität Erlangen-Nürnberg, GPA: 1.0 on a 1–5 scale with 1 the best possible grade.
Thesis: *Ontology-Based Text Classification*
- 2014–2015 **Software and Knowledge Engineering, Erasmus Exchange**, Université de Strasbourg, GPA: 17.5 out of 20.
Minor: French Linguistics; Participation in a project on automatic text simplification.
- 2010–2014 **Double degree: Computer Science / Indo-European Linguistics, Bachelor of Arts**, Friedrich-Alexander-Universität Erlangen-Nürnberg, GPA: 1.11 on a 1–5 scale.
Thesis: *The Intelligent Shopping List: Natural language understanding and adaptive shopping assistance for an Android shopping list app*

Peer-reviewed Publications

- EACL 2021 **Martin Schmitt** and Hinrich Schütze. Language Models for Lexical Inference in Context. In *Proceedings of the 2021 Conference of the European Chapter of the Association for Computational Linguistics*
- COLING 2020 Philipp Dufter, **Martin Schmitt**, and Hinrich Schütze. Increasing Learning Efficiency of Self-Attention Networks through Direct Position Interactions, Learnable Temperature, and Convolved Attention. In *Proceedings of the 28th International Conference on Computational Linguistics (Short Paper)*
- EMNLP 2020 **Martin Schmitt**, Sahand Sharifzadeh, Volker Tresp, and Hinrich Schütze. An Unsupervised Joint System for Text Generation from Knowledge Graphs and Semantic Parsing. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing*
- AKBC 2020 Marina Speranskaya, **Martin Schmitt** and Benjamin Roth. Ranking vs. Classifying: Measuring Knowledge Base Completion Quality. In *Automated Knowledge Base Construction*.
- ACL 2019 **Martin Schmitt** and Hinrich Schütze. SherLliC: A Typed Event-Focused Lexical Inference Benchmark for Evaluating Natural Language Inference. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics*

- JoLLI 2019 Stefan Evert, Philipp Heinrich, Klaus Henselmann, Ulrich Rabenstein, Elisabeth Scherr, **Martin Schmitt** and Lutz Schröder. Combining Machine Learning and Semantic Features in the Classification of Corporate Disclosures. In *Journal of Logic, Language and Information*
- EMNLP 2018 **Martin Schmitt**, Simon Steinheber, Konrad Schreiber and Benjamin Roth. Joint Aspect and Polarity Classification for Aspect-based Sentiment Analysis with End-to-End Neural Networks. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing* (Short Paper)
- ACL 2018 Philipp Dufter, Mengjie Zhao, **Martin Schmitt**, Alexander Fraser and Hinrich Schütze. Embedding Learning Through Multilingual Concept Induction. In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics*

Employment and Internships (Selection)

- 2016–present **Research and Teaching Staff Member**, *Center for Information and Language Processing*, LMU München.
- Research on machine learning for knowledge graphs in MLWin (www.mlwin.de)
 - Recurrent class: *Syntax natürlicher Sprachen* – taught together with Axel Wisioerek
 - Co-supervision of 16 student theses and projects
- 2019 **Applied Scientist Intern**, *Amazon*, Cambridge.
Research internship of 3 months involving Alexa's question answering with knowledge graphs.
- 2012–2014 **Teaching Assistant**, *Chair of Theoret. Computer Science*, FAU Erlangen-Nürnberg.
Classes: *Foundations of Logic in Computer Science* and *Theory of Programming*.
- 2011–2012 **Student Assistant**, *Chair of Computational Linguistics*, FAU Erlangen-Nürnberg.
Modeling Albanian and German morphology with finite state machines.

Honors and Awards

- 2017 **Studienstiftung des deutschen Volkes**, *Elite Ph.D. scholarship*.
- 2010–2016 **Studienstiftung des deutschen Volkes**, *Scholarship for elite students*.
- 2006–2008 **Selected for participation: Hochbegabtenmodell Mittelfranken**.

Scientific Volunteering

- 2019–2021 **Reviewer at top-tier conferences**, *EMNLP / NAACL-HLT / ACL / EACL*.
- 2018 **Chair**, *ESLLI Student Session (Language and Computation Track)*, Sofia, Bulgaria.
- 2017 **Lecturer (Embeddings and Deep Learning)**, *ESLLI*, Toulouse, France.
Course taught together with Hinrich Schütze; I organized the practical lab sessions.

Key Skills and Interests

- Programming Python (preferred language), Java, Perl, Bash and UNIX coreutils.
- Libraries Pytorch + Lightning, AllenNLP, Spacy
- Languages German (Native), English (Fluent), French (Fluent)
- Hobbies Improvisational theater, board games, choral singing, ballroom dancing, piano