	Curriculum Vitae			
Personal information				
Name	Katharina Lisa Maria Kann			
Phone/e-mail	+16466830278; katharina.kann@colorado.edu			
Personal website	https://kelina.github.io			
Education and research experience				
from 01/2020	Assistant Professor of Computer Science: University of Colorado Boulder, USA			
04/2018 - 12/2019	Postdoctoral Research Associate: New York University, USA			
01/2015 - 09/2017	PhD in Computer Science: University of Munich, Germany (GPA: 0.9)			
10/2012 - 11/2014	MSc in Computer Science : Technical University of Munich, Germany (GPA: 1.5)			
10/2008 - 11/2011	BSc in Mathematics with minor Computer Science: Johannes Gutenberg University Mainz, Germany (GPA: 1.8)			
08/2000 - 03/2008	High school: Maria Ward-Gymnasium, Mainz, Germany (University-entrance diploma - Abitur; GPA: 1.0; best grade in my year)			
Industry and proje	ect experience			
10/2017 - 03/2018	Internship at Google Zurich: Research and software engineering			
09/2016 - 12/2016	Internship at Google Zurich: Research and software engineering			
06/2015 - 09/2015	Internship at Google London: Research and software engineering			
04/2014 - 11/2014	Master's thesis about the topic "Improving Human-Robot Interaction by Applying Incremental Processing of Speech and Non-verbal Signals"			
04/2014 - 09/2014	Student researcher at fortiss (data collection and gesture recognition with Hidden Markov Models using C#)			
12/2013 - 04/2014	Student researcher at DLR (design and development of an application to train amputees for the use of hand prosthesis using C#)			
10/2013 - 04/2014	Guided research about the topic "Gesture Recognition in Robotics"			
Stays abroad				
09/2011 - 07/2012	Mandarin language studies at the Donghua University in Shanghai, China			
09/2009 - 07/2010	ERASMUS year in Valencia, Spain (university studies at the Universitat de Valencia; language studies at the language school Centre d'idiomes)			
04/2008 - 07/2008	Mandarin language studies at the EF language school in Beijing, China			
Funding and Awards				
Funding				

Funding08/2020 - 07/2025Senior Personnel, NSF AI Institute for Student-AI Teaming (\$19,993,294)

Internal Funding 07/2020 - 06/2022	Co-PI, Engineering Education and AI-Augmented Learning IRT (\$250k)
03/2020	Co-PI, RSO funding for equipment maintenance or purchases (\$15k)
Awards 06/2017	Winning system of task 2 of the CoNLL-SIGMORPHON 2017 shared task on universal morphological reinflection
05/2017	Google scholarship for attending the Lisbon Machine Learning School (LxMLS 2017)
05/2016	Winning system of the SIGMORPHON 2016 shared task on morphological reinflection
07/2011	Scholarship from the German Academic Exchange Service and the China Scholarship Council for Mandarin language studies in China
09/2009	ERASMUS scholarship for university studies in Valencia
03/2009	Scholarship from the "Studienstiftung des Deutschen Volkes"
Teaching	
Classes	Natural Language Processing (CSCI 5832/LING 5832). CU Boulder, Spring 2020.
	 Natural Language Understanding and Computational Semantics (DS-GA 1012/LING-GA 1012, with Samuel R. Bowman). NYU, Spring 2019. Resulting in a publication at the ACL Student Research Workshop 2019
Mentoring and supervision	 Supervision of undergraduate intern Huiming Jin. LMU Munich, 2017. Resulting in a publication at SCLeM 2017
Skills	
Languages	German (mother tongue), English (fluent), Spanish (fluent), Chinese (intermediate, HSK 5 in 2012), French (basic), Latin (Latinum)
Programming languages	Java (good knowledge), Python (good knowledge), C++ (basic knowledge), C# (basic knowledge)
Professional servi	ce
2020	Co-organizer of the SIGMORPHON 2020 shared task on unsupervised discovery of morphological paradigms
2019	Co-organizer of the workshop Repl4NLP
2018	Co-organizer of the CoNLLSIGMORPHON 2018 shared task on universal morphological reinflection
Publications	
Refereed conference papers	Jason Phang*, lacer Calixto*, Phu Mon Htut, Yada Pruksachatkun, Haokun Liu, Clara Vania, Katharina Kann and Samuel R. Bowman. English

Intermediate-Task Training Improves Zero-Shot Cross-Lingual Transfer Too. In AACL 2020 (to appear).

Rajat Agarwal and Katharina Kann. **Acrostic Poem Generation**. In EMNLP 2020 (*to appear*).

Manuel Mager, Özlem Çetinoğlu and Katharina Kann. **Tackling the Low-resource Challenge for Canonical Segmentation**. In EMNLP 2020 (*to appear*).

Sarah Moeller, Ling Liu, Changbing Yang, Katharina Kann and Mans Hulden. **IGT2P: From Interlinear Glossed Texts to Paradigms**. In EMNLP 2020 (*to appear*).

Yada Pruksachatkun*, Jason Phang*, Haokun Liu*, Phu Mon Htut*, Xiaoyi Zhang, Richard Yuanzhe Pang, Clara Vania, Katharina Kann and Samuel R. Bowman. Intermediate-Task Transfer Learning with Pretrained Language Models: When and Why Does It Work? In ACL 2020.

Huiming Jin, Liwei Cai, Yihui Peng, Chen Xia, Arya McCarthy and Katharina Kann. **Unsupervised Morphological Paradigm Completion**. In ACL 2020.

Katharina Kann, Samuel R. Bowman and Kyunghyun Cho. Learning to Learn Morphological Inflection for Resource-Poor Languages. In AAAI 2020.

Katharina Kann*, Ophélie Lacroix* and Anders Søgaard. **Weakly Supervised POS Taggers Perform Poorly on Truly Low-Resource Languages**. In AAAI 2020.

Katharina Kann. Acquisition of Inflectional Morphology in Artificial Neural Networks With Prior Knowledge. In SCiL 2020.

Katharina Kann, Kyunghyun Cho and Samuel R. Bowman. Towards Realistic Practices In Low-Resource Natural Language Processing: The Development Set. In EMNLP 2019 (short papers).

Yadollah Yaghoobzadeh, Katharina Kann, T. J. Hazen, Eneko Agirre and Hinrich Schütze. **Probing for Semantic Classes: Diagnosing the Meaning Content of Word Embeddings.** In ACL 2019.

Manuel Mager, Özlem Çetinoğlu and Katharina Kann. **Subword-Level** Language Identification for Intra-Word Code-Switching. In NAACL 2019.

Katharina Kann*, Alex Warstadt*, Adina Williams* and Samuel R. Bowman. Verb Argument Structure Alternations in Word and Sentence Embeddings. In SCiL 2019.

Katharina Kann and Hinrich Schütze. **Neural Transductive Learning and Beyond: Morphological Generation in the Minimal-Resource Setting.** In EMNLP 2018.

Katharina Kann, Sascha Rothe and Katja Filippova. **Sentence-Level Fluency Evaluation: References Help, But Can Be Spared!** In CoNLL 2018.

Katharina Kann*, Jesus Manuel Mager Hois*, Ivan Vladimir Meza Ruiz and Hinrich Schütze. Fortification of Neural Morphological Segmentation Models for Polysynthetic Minimal-Resource Languages. In NAACL 2018. Katharina Kann, Ryan Cotterell and Hinrich Schütze. **One-Shot Neural Cross-Lingual Transfer for Paradigm Completion**. In ACL 2017. Katharina Kann, Ryan Cotterell and Hinrich Schütze. **Neural Multi-Source Morphological Reinflection**. In EACL 2017.

Katharina Kann, Ryan Cotterell, Hinrich Schütze. **Neural Morphological Analysis: Encoding Decoding Canonical Segments**. In EMNLP 2016 (short papers).

Katharina Kann and Hinrich Schütze. **Single-Model Encoder-Decoder with Explicit Morphological Representation for Reinflection**. In ACL 2016 (short papers).

Workshop papers Nikhil Prabhu and Katharina Kann. Frustratingly Easy Multilingual Grapheme-to-Phoneme Conversion. In SIGMORPHON 2020.

Assaf Singer and Katharina Kann. The NYU-CUBoulder Systems for SIGMORPHON 2020 Task 0 and Task 2. In SIGMORPHON 2020.

Manuel Mager and Katharina Kann. The IMS–CUBoulder System for the SIGMORPHON 2020 Shared Task on Unsupervised Morphological Paradigm Completion. In SIGMORPHON 2020.

Anhad Mohananey*, Katharina Kann* and Samuel R. Bowman. **Self-Training** for Unsupervised Parsing with PRPN. In IWPT 2020.

Johannes Bjerva, Katharina Kann and Isabelle Augenstein. **Transductive Auxiliary Task Self-Training for Neural Multi-Task Models**. In DeepLo 2019.

Katharina Kann, Anhad Mohananey, Kyunghyun Cho and Samuel R. Bowman. **Neural Unsupervised Parsing Beyond English**. In DeepLo 2019.

Katharina Kann, Stanislas Lauly and Kyunhyun Cho. **The NYU System for the CoNLL–SIGMORPHON 2018 Shared Task on Universal Morphological Reinflection**. In CoNLL–SIGMORPHON 2018.

Manuel Mager, Elisabeth Mager, Alfonso Medina-Urrea, Ivan Meza and Katharina Kann. Lost in Translation: Analysis of Information Loss During Machine Translation Between Polysynthetic and Fusional Languages. In All Together Now? Computational Modeling of Polysynthetic Languages 2018. Katharina Kann, Johannes Bjerva, Isabelle Augenstein, Barbara Plank and Anders Søgaard. Character-level Supervision for Low-resource POS Tagging. In DeepLo 2018.

Yadollah Yaghoobzadeh, Katharina Kann and Hinrich Schütze. **Evaluating Word Embeddings in Multi-label Classification Using Fine-grained Name Typing**. In Repl4NLP 2018.

Katharina Kann and Hinrich Schütze. Unlabeled Data for Morphological Generation With Character-Based Sequence-to-Sequence Models. In SCLeM 2017.

Huiming Jin and Katharina Kann. Exploring Cross-Lingual Transfer of Morphological Knowledge In Sequence-to-Sequence Models. In SCLeM 2017.

	Katharina Kann and Hinrich Schütze. The LMU System for the CoNLL-SIGMORPHON 2017 Shared Task on Universal Morphological Reinflection . In CoNLL–SIGMORPHON 2017.
	Toms Bergmanis, Katharina Kann, Hinrich Schütze and Sharon Goldwater. Training Data Augmentation for Low-Resource Morphological Inflection. In CoNLL–SIGMORPHON 2017.
	Katharina Kann and Hinrich Schütze. MED: The LMU system for the SIGMORPHON 2016 shared task on morphological reinflection . In SIGMORPHON 2016.
Invited publications	Katharina Kann*, Arya D. McCarthy*, Garrett Nicolai and Mans Hulden. The SIGMORPHON 2020 Shared Task on Unsupervised Morphological Paradigm Completion. In SIGMORPHON 2020.
	Ryan Cotterell, Christo Kirov, John Sylak-Glassman, Géraldine Walther, Ekaterina Vylomova, Arya D. McCarthy, Katharina Kann, Sebastian Mielke, Garrett Nicolai, Miikka Silfverberg, David Yarowsky, Jason Eisner and Mans Hulden. Søgaard. The CoNLLSIGMORPHON 2018 Shared Task: Universal Morphological Reinflection. In CoNLL–SIGMORPHON 2018.
Unpublished manuscripts	Katharina Kann. Grammatical Gender, Neo-Whorfianism, and Word Embeddings: A Data-Driven Approach to Linguistic Relativity. arXiv:1910.09729.
	Wenpeng Yin, Katharina Kann, Mo Yu and Hinrich Schütze. Comparative Study of CNN and RNN for Natural Language Processing. arXiv:1702.01923.
Talks and poster p	presentations
Conference talks 02/2020	Learning to Learn Morphological Inflection for Resource-Poor Languages Location: New York Event: AAAI
01/2020	Acquisition of Inflectional Morphology in Artificial Neural Networks With Prior Knowledge Location: New Orleans Event: SCiL
11/2019	Towards Realistic Practices In Low-Resource Natural Language Processing: The Development Set Location: Hong Kong Event: EMNLP
11/2018	Neural Transductive Learning and Beyond: Morphological Generation in the Minimal-Resource Setting Location: Brussels Event: EMNLP
11/2018	Sentence-Level Fluency Evaluation: References Help, But Can Be Spared! Location: Brussels Event: CoNLL

06/2018	Fortification of Neural Morphological Segmentation Models for Polysynthetic Minimal-Resource Languages Location: New Orleans Event: NAACL
08/2016	Single-Model Encoder-Decoder with Explicit Morphological Representation for Reinflection Location: Berlin Event: ACL
Posters 08/2020	Diksha Meghwal, lacer Calixto, Stanislaw Jastrzebski and Katharina Kann. Can Wikipedia Categories Improve Masked Language Model Pretraining? Event: WiNLP Workshop (at ACL)
06/2018	Katharina Kann*, Manuel Mager*, Ivan Vladimir Meza Ruiz and Hinrich Schütze. Neural Morphological Segmentation for Polysynthetic Minimal-Resource Languages. Event: WiNLP Workshop (at NAACL)
12/2017	Katharina Kann*, Jesus Manuel Mager Hois*, Ivan Vladimir Meza Ruiz and Hinrich Schütze. Improving Neural Morphological Segmentation for Polysynthetic Minimal-Resource Languages. Event: LLD Workshop (at NeurIPS)
08/2017	Katharina Kann, Ryan Cotterell and Hinrich Schütze. Multi-task Training for Morphological Inflection. Event: WiNLP Workshop (at ACL)
Workshop talks 07/2020	The SIGMORPHON 2020 Shared Task on Unsupervised Morphological Paradigm Completion Location: online Event: SIGMORPHON
07/2018	Character-level Supervision for Low-resource POS Tagging Location: Melbourne Event: DeepLo
Invited talks	
10/2019	Morphological Generation in the Limited-Resource Setting Location: University of Pennsylvania Host: Sihao Chen
10/2019	Transfer Learning for Low-Resource Natural Language Processing Location: CIMAT, Guanajuato Event: PLAGAA Host: Adrian Pastor López Monroy
07/2019	Morphological Generation in the Limited-Resource Setting Location: Universität Stuttgart Host: Jonas Kuhn
03/2019	Morphological Generation in the Limited-Resource Setting Location: IBM Zurich Host: Jasmina Bogojeska

03/2019	Morphological Generation in the Limited-Resource Setting Location: Google Zurich Host: Aliaksei Severyn
02/2019	Morphological Generation in the Limited-Resource Setting Location: University of Colorado Host: Martha Palmer
02/2019	Morphological Generation in the Limited-Resource Setting Location: Carnegie Mellon University Host: Yulia Tsvetkov
07/2018	Low-resource Morphological Generation with Sequence-to-Sequence Models Location: University of Melbourne Host: Daniel Beck
10/2017	Low-resource Morphological Generation with Sequence-to-Sequence Models Location: New York University Hosts: Sam Bowman and Kyunghyun Cho
10/2017	Low-resource Morphological Generation with Sequence-to-Sequence Models Location: Johns Hopkins University Host: David Yarowsky
09/2017	Neural Sequence-to-Sequence Models for Low-Resource Morphology Location: University of Copenhagen Host: Anders Søgaard
Invited lightning talks	
10/2019	Low-Resource Languages: A Challenge for Natural Language Processing Location: University of Michigan Event: Michigan AI Symposium Host: Jenna Wiens