ERCONG NIE

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EDUCATION

Ludwig-Maximilians-University of Munich (LMU), Munich, Germany

2022.09 – present

PhD student at Center for Information and Language Processing (CIS)

Research fields: *Cross-lingual transfer learning, historical language processing, promt-based learning* Supervised by PD. Dr. Helmut Schmid at Schuetze NLP Lab led by Prof. Hinrich Schütze

Ludwig-Maximilians-University of Munich (LMU), Munich, Germany

2020.04 - 2022.08

M.Sc. in Computational Linguistics (Major) and Computer Science (Minor) Grade: 1.3/1.0

Selected courses: Python Applications for Computational Linguistics, Neural representation learning, Machine translation, Conversational AI, Deep learning for NLP, Machine learning, Data mining, Big data etc.

Master Thesis: Zero-Shot Learning Transfer on Low-Resource Languages by Cross-Lingual Retrieval

(Examiner: Prof. Hinrich Schütze)

Shanghai Jiao Tong University (SJTU), Shanghai, China

2015.09 - 2019.06

B.A. in German Studies (Major) and Finance (Minor) Grade: 88/100

Selected courses: General Linguistics, German Lexicology, Neurolinguistics, Mathematics, Statistics etc. Bachelor Thesis: A corpus-based study of metaphors in the football language (Supervisor: Prof. H. Zhang)

Ruprecht-Karls-University Heidelberg (RKU), Heidelberg, Germany

2018.03 – 2018.08

Exchange Student in Comparative German Studies

Study courses: Language typology, Psycolinguistics, Second Language Acquisition etc.

E TEACHING

Module P10 for Computational Linguistics (Bachelor), LMU Munich

WS 23-24

Tutor Statistical Methods in NLP (Tutorial)

Advanced Module for Computational Linguistics (Master), LMU Munich WS 23-24, WS22-23 *Tutor* Deep Learning and Natural Language Processing (Exercise Session)

- Prepared NLP-relevant python exercises for the lab.
- Discussed with professor and partner on the course structure and organization.
- Evaluated lab assignments and answered questions regarding exercises as well as lectures from students.

Machine Learning Track for Statistics and Data Science (Master), LMU Munich WS 23-24, SS 23

Supervisor Applied Deep Learning

• Supervised students to conduct deep learning projects.

Seminar Module Lexicon, Syntax, Semantics II, LMU Munich

SS 23

Tutor Humam-Centric Natural Language Processing (Seminar)

- Scheduled the seminar plan and prepared papers for student presentation with the professor.
- Gave presentations on advanced topics of human-centric NLP.
- Gave feedback on students' seminar reports.

Tutor Formal Language and Finite-State Technologies (Exercise Session)

- Summarized the theoretical contents of the lecture in the field of lexicon. automaton
- Taught basic python programming skills and prepared Python exercises for students.
- Instructed students to implement the algorithms learned from the lecture with Python.
- Built and maintained the course web page: https://www.cip.ifi.lmu.de/~nie/basismodul.

EXPERIENCE

Computational Linguistic Internship at Infineon, Munich, Germany

2021.08 - 2022.03

Working Student Member of Semantic Web Group, Supply Chain Innovation Team

- Performed ontology modeling and linguistic analysis of ontologies and knowledge graphs.
- Developed a document retrieval system for internal use by employing the language model sentence BERT and the ontology digital reference.

Computational Linguistic Research Assistant at CIS, Munich, Germany 2021.04 – 2021.07 Student Research Assistant DFG Project ReMLAV: Relational Machine Learning for Argument Validation

- Worked on the construction of a corpus for claim detection.
- Annotated argument sentences by claim target, claim stance and claim type for argument classification tasks.

□ Publications

- * Equal contribution, † Corresponding author.
 - **Ercong Nie**, Helmut Schmid, and Hinrich Schütze. "Unleashing the Multilingual Encoder Potential: Boosting Zero-Shot Performance via Probability Calibration." *Findings of EMNLP 2023 (To appear)*.
 - Xiaoqian Li, **Ercong Nie** and Sheng Liang "Crosslingual Retrieval Augmented In-context Learning for Bangla." *EMNLP 2023 Workshop on Bangla Language Processing (BLP 2023) (To appear)*.
 - Zheyu Zhang*, Han Yang*, Bolei Ma*, David Rügamer and **Ercong Nie**†. "Baby's CoThought: Leveraging Large Language Models for Enhanced Reasoning in Compact Models." *EMNLP 2023 Workshop CoNLL-CMCL Shared Task BabyLM Challenge (To appear)*.
 - Bolei Ma*, **Ercong Nie***, Helmut Schmid, and Hinrich Schütze. "Is Prompt-Based Finetuning Always Better than Vanilla Finetuning? Insights from Cross-Lingual Language Understanding." *KONVENS 2023*.
 - Ercong Nie, Helmut Schmid, and Hinrich Schütze. "Cross-Lingual Constituency Parsing for Middle High German: A Delexicalized Approach." *RANLP 2023 Workshop on Ancient Language Processing (ALP 2023)*.
 - Ercong Nie*, Sheng Liang*, Helmut Schmid, and Hinrich Schütze. "Cross-Lingual Retrieval Augmented Prompt for Low-Resource Languages." *Findings of ACL 2023*.
 - Ziegler, Ingo, Bolei Ma, **Ercong Nie**, Bernd Bischl, David Rügamer, Benjamin Schubert, and Emilio Dorigatti. "What cleaves? Is proteasomal cleavage prediction reaching a ceiling?." In *NeurIPS 2022 Workshop on Learning Meaningful Representations of Life*.

SKILLS

- Programming Languages: Python (Good), C++ (Basic), familiar with common NLP and machine learning packages, such as Numpy, Scipy, Scikit-Learn, PyTorch, Keras, NLTK, etc.
- Natural Languages: Chinese Mandarin (Native), English (Fluent), German (Fluent)
- Tools: LATEX, HTML, Linux, Jupyter Notebook, Git, etc.

○ Honors and Certificates

i OTHERS

Invited talk at 31st Student Conference on Computational Linguistics (TaCoS): Fine-Tuned Sentence Transformer Model for Question Answering Task 2022.05