Sijia Ge

E-mail: Sijia.Ge@colorado.edu
Mobile: (720)5307370
Smiley Court, 1300 30th St.
Boulder, Colorado, 80303

EDUCATION

Department of Linguistics, University of Colorado-Boulder Aug.2021-Now
M.S Computational Linguistics(CLASIC) 4.0/4.0 (Expected graduation:Jun.2023)

School of Chinese Language and Literature, Nanjing Normal University Sep.2016-Jun.2019
M.A Linguistics&Applied Linguistics (with Concentration on Computational Linguistics) 86.3/100(overall)

School of Chinese Language and Literature, Shanxi University Sep.2012-Jul.2016
B.A Chinese Language and Literature 85.8/100(overall)

RELATED SKILLS

Technical: Python, Genism, NLTK, Scikit-learn, Keras, Tensorflow, SQL, Django, HTML, Axure, Java, CentOS, SPSS, Latex
Language: Mandarin Chinese(Native), English(Fluent)

PROFESSIONAL EXPERIENCE

Beijing Lingosail Tech Co., Ltd.
Product Manager Intern, Beijing Mar.2021-June.2021

- Design the prototype of the new products including basic UI, function and interaction
- Schedule the overall progress of development as well as promotion model
- Test the function of new products with black box testing

PROJECT&RESEARCH

Patronizing and Condescending Language Detection
Course group project, Colorado University-Boulder CSCI 5832&SemEval 2022 shared task 4

- Applied XLNet as a pre-trained model for the binary classification task and reached a f-score of 0.53, ranked #7 for the practice phase, which was higher than the Roberta baseline.
- Also applied Glove embeddings as features for the support machine vector model to reach a f-score of 0.38

Named Entity Recognition for Gene text
Course group project, Colorado University-Boulder CSCI 5832

- Implemented gene named entity recognition with crf++,crfsuite, Bi-LSTM-CRF and pre-trained language model(BioBERT)， and reached entity based F-score of 62%, 62%, 77%, 85% respectively.
- utilized comet_ml as a tool for training visualization

Sentiment Analysis for Hotel Review
Course project, Colorado University-Boulder CSCI 5832

- Extract designed features like sentimental lexicon, comma, pronouns from the original text
- Implemented logistic regression from scratch with Python to get a F-score of 0.97
- Implement gradient descent training, mini-batch gradient descent training and, stochastic gradient descent

A Joint Model of Automatic Sentence Segmentation and Lexical Analysis for Ancient Chinese
Research Assistant, Nanjing Normal University Sep.2018-Mar.2019

- Established a seq2seq model for sentence segmentation and lexical analysis based on Bi-LSTM-CRF and TensorFlow
- Transferred two separated tasks into one task, the F1-score of sentence segmentation, word segmentation, and POS reached 78.95,85.73% and 72.65% separately, with an average increase of 3.5%, 0.18%, and 0.35% respectively

Annotated Imagery Corpus of Three Hundred Tang Poems
Research Leader, Nanjing Normal University Jul.2018-Jan.2019

- Annotated 4496 imageries occurring in the Three Hundred Tang Poems based on HowNet
- Designed the semantic annotation system including the literal meaning and the metaphorical meaning

Named Entity Recognition on Chinese Classics Based on Bi-LSTM-CRF
Research Assistant, Beijing Gulian Corporation Oct.2017-Mar.2018

- Established an interface for named entity recognition on Chinese classics based on Bi-LSTM-CRF and utilized trie-tree for correcting with an F-score of 82.3% on *ZuanZhuan*

- Deployed the environment for deep learning, stress testing, and function testing

Chinese Abstract Meaning Representation Corpus

Team Member, Nanjing Normal University Jul.2017-Mar.2018

- Counted the distribution of semantic roles for the predicate in 5000 sentences automatically
- Compared the data with semantic roles labeling based on Chinese PropBank to verify the efficiency of AMR for solving the conflicts between core and non-core roles, representation of multi-functional roles, and solution to dropped roles

The Platform for monitoring the popularity of Mandarin Chinese

Team Member, The Education Department of Jiangsu Province Dec.2016-Dec.2017

- Developed a web platform based on spring framework for recording the nationwide result of the survey for Mandarin Chinese popularity
- Implemented the import and export data of Excel and audio files

Chinese FrameNet corpus

Team Member, Shanxi University Nov.2015-Mar.2016

- Extended the core word of six frames and annotated about 300 sentences for these frames
- Participated in the discussion of the annotation rules

SELECTED PUBLICATION

Paper

Ning Cheng, Bin Li, Liming Xiao, Changwei Xu, **Sijia Ge**, Xingyue Hao, Minxuan Feng. Integration of Automatic Sentence Segmentation and Lexical Analysis of Ancient Chinese based on BiLSTM-CRF Model. *Proceedings of LT4HALA 2020 - 1st Workshop on Language Technologies for Historical and Ancient Languages*. Marseille, France,2020:52-58.

Xingyue Hao, **Sijia Ge***, Yang Zhang, Yuling Dai, Peiyi Yan, and Bin Li. The Construction and Analysis of Annotated Imagery Corpus of Three Hundred Tang Poems. J.-F. Hong et al. (Eds.): *Proceedings of the 20th Chinese Lexical Semantics Workshop (CLSW 2019), LNAI 11831, pp. 517–524, 2020.*

Li Song, Yuan Wen, **Sijia Ge**, Bin Li, Junsheng Zhou, Weiguang Qu and Nianwen Xue. An Easier and Efficient Framework to Annotate Semantic Roles: Evidence from the Chinese AMR Corpus.*The 13th Workshop on Asian Language Resources on LREC 2018*. Miyazaki, Japan, May 07, 2018:29-35.

Patent

A Method and System of Automatic Lexical Analysis for Ancient Chinese. (the 3rd applicant).2019. No.CN201910085019.3

OTHER EXPERIENCE

A Representative of 19th Graduate Congress May.2018

Volunteer for the China National Conference on Computational Linguistics 2017(CCL 2017) Oct.2017

- guided the guests, in charge of the dormitory for over 400 attendees

Volunteer for the Museum of Shanxi Province Nov.2012-May.2013

- worked as a tour guide at the showroom about the history of Chinese coins