

# Han ZHOU

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## Education

**B.A. Shanghai Jiao Tong University (SJTU)**

Sept.2018-Jun. 2022 (Expected)

**Major:** German (**Grade:** 88%)

**Courses:** Frontiers in Linguistics (on-going); Syntax (91); German Linguistics (94); Language Acquisition (88); Morphology (audit); Probability statistics (88); Basic Calculus (100).

**Awards:** SJTU Scholarships (Top 20%); Third Prize of National English Competition for College Students (Top 5%).

## Research Experience

**The Regulation of Relative Clause Types on Causality Expectation in Real-time Discourse Processing**

**Independent Research | Advisor:** Professor Fuyun Wu

May. 2021-present

- Compared and analysed over 10 most recent papers on discourse processing, thus finding out the research gap in English research of Hoek (2020&2021), i.e., the effect of concessive relative clause (RC) on expectation of coherence, and expanding the experiment to Chinese to explore the effect of three RC types on expectation of causality in discourse;
- Designed 30 sets of Chinese stimuli as well as 60 fillers based on English experiments by Hoek (2021), each including a lead-in sentence, a matrix sentence with a neutral/causal/concessive relative clause, a connective-clause and a wrap-up sentence, and programmed with Experiment Builder for the eye-tracking experiment.

**Relationship between Global Governance and Belt & Road Initiative under the Great Change of 100 Years**

**Major Project of National Social Science Fund, Tsinghua University**

Jun. 2020-Sept. 2020

- Analysed the top 20 literature on the Belt & Road Initiative and composed literature reviews from the perspectives of communication studies, economy and value innovation, thus laying a solid foundation for further research;
- Led the project reports on the relationship between EU, especially Germany, and the Belt & Road Initiative, and explored the cooperation between economy and trade, science and technology, as well as the leadership of Germany in EU.

**The Impact of Quantificational Cues on L2 Subject-verb Agreement Processing: Evidence from P600**

**National-level Undergraduate Innovation Program** (Highest level of school funding)

Sept. 2018-Sept. 2020

**Advisor:** Professor Xin Chang

- Analysed nearly 50 related theses in the last 5 years, thus proposing the research topic based on the competing theories including the *Unified Competition Model* and *Shallow Structure Hypothesis*, and investigated the subject-verb agreement processing mode of L2 speakers from the perspective of quantifications, which is a novel angle in this topic;
- Designed 60 sets of test materials for the 3×2 experiment including quantifications (definite quantifier *three*, indefinite quantifier *many*, and article *the*) and grammaticality (grammatical/ungrammatical) based on previous test materials of Tanner and Bulkes (2018), and conducted the behavioural test and ERP experiment among Chinese-English speakers;
- Calculated the participants' accuracy of behavioural test and recorded P600 effect, and proposed two explanations based on the ANOVA analysis for the discussion part, thus accomplishing a 10-thousand-word dissertation which achieved an A.

## Work Experience

**TTS Linguistic Intern, Ximalaya Technology Co., LTD** (leading Internet company in AI voice with over 2000 employees)

Jun. 2021-Sept. 2021

- Led the program of emotion annotation in the data team, annotated the emotions in dialogues of four novel types into 8 categories, and analysed the emotion polarity of narration, thus establishing the emotion dataset with over 24,000 data for the production of human emotion in Text-To-Speech (TTS);
- Proofread over 70,000 polyphone/homograph Mandarin data, and added over 3000 missing data accordingly through BCC Chinese Corpus after analysing the polyphone coverage with Python and Excel, thus expanding the coverage of the dataset by 2% and improving the accuracy of machine learning;
- Evaluated and fixed over 1000 bad cases of AI pronunciation in Mandarin from the angle of prosody, phonetics and emotions, regularised and cleaned the newly added Mandarin data with Python, enhancing the pronunciation of AI Voice.

**Online Course Editor, Shanbay Internet Co., LTD** (famous for English apps with over 20M. DAU)

Jan. 2021-Feb. 2021

- Designed and composed 5 analysis test papers of the CET-4 and CET-6 since 2020, which helped students efficiently grasp the skills of English reading and listening and improved their grades by 15%;
- Recorded and edited the corresponding online video courses reaching over 100 thousand subscribers, whose degree of satisfaction with the courses reached over 80%;
- Annotated and labelled 1050 sentences for the lexicon of Shan Bei App and improved the accuracy of online translation by 20% in cooperation with R&D department.

**Translator for Overseas Chinese Studies, National Library of China**

Jul. 2020-Oct. 2020

- Translated dozens of papers (over 10,000 words) about Chinese studies, and assessed researchers and their achievements from over 10 distinguished overseas Chinese Studies research institutions such as Fairbank Centre for Chinese Studies.

## Other Information

**Minister, Public Relations Department, Student International Organization Association**

Sept. 2018-Sept. 2020

- Invited several IO officials, thus organizing the Training Camp for IO Talents with an attendance of over 50 people;
- Organised the visiting program to offices of IOs in Bangkok and Beijing and expanded the visit to Tokyo.

**Computer Skills:** Microsoft Office; PR; SPSS; E-Prime; Python; MATLAB; R; Experiment Builder.

**Language Skills:** English (IELTS: 8.0; Certificate of Advanced English Interpretation); German (Zertifikat C1, TestDaf:18)