

# Jianing Shi

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## EDUCATION

**Zhejiang University**(Computer Science)

**Hangzhou, China**

- **GPA:** 3.99/4.00; **Ranking:** 3/129; Zhejiang Province Scholarship (2%) 2016-2020
- **Professional Skills:** C/C++; Python; Java; C#; JavaScript; Assembly; Verilog; SQL; Lisp; Tensorflow; PyTorch; OpenCV
- **Github:** <https://github.com/sjn4048> • **Homepage:** <https://jnshi.me>
- **Test Scores:** TOEFL 107/120 (Speaking 26/30); GRE 325 (Quantitative 170)
- **Honor:** First-class academic scholarship (Top 5%), Art & Sports Scholarship (Top 2%), First prize in Mathematical Contest in Modeling of Zhejiang University (Top 5%), First prize in Zhejiang University Physicists' Tournament (Top 10%)
- **Advisor:** Zhou Zhao (PhD Tutor, Assoc. Prof), Zhejiang University DCD Lab

## RESEARCH EXPERIENCE

**Microsoft Research Asia**

**Beijing, China**

*Research Intern, Machine Learning Group*

Sep 2019-Present

- Enhanced the model of Average-Attention-Network, enabling machine to capture localness more effectively;
- Enhanced Machine Translation accuracy via a multi-branch-inference model, enabling machine to learn long-distance dependency effectively; increased BLEU score on IWSLT14 dataset by 1 point compared to baseline Transformer model.

**University of Illinois Urbana Champaign**

**Champaign, US**

*Summer Intern*

Jul 2019-Sep 2019

- Constructed a highly flexible and innovative GAN-based information-retrieval framework, which can jointly train a retrieval-based model and a generative-based model, and increased the accuracy on dialogue task by 5%;
- Constructed a multi-model based VQA framework with mixed knowledge of pictures, texts and knowledge triples, which enabled the model to learn from multi-source knowledge and raised the VQA accuracy on specific dataset by 6%.

**Digital media Computing & Design Lab (DCD Lab)**

**Hangzhou, China**

*Research Assistant*

Sep 2018-Jun 2019

- Conducted research on Bidirectional Encoder Representation from Transformers (BERT) reranking, improved the result of BERT models on multiple NLP tasks such as paraphrase generation;
- Involved in the early-stage development of FastSpeech, which constructed a non-autoregressive (NAT) Text-To-Speech model and significantly improved inference speed without loss of accuracy.

**Yiwise Intelligent Technology Co.,Ltd**

**Hangzhou, China**

*Algorithm Research Intern*

Jul 2018-Sep 2018

- Carried out research in natural language processing, mainly focused on conversational Q&A challenge; reproduce ideas in academic papers and adapted algorithms to Chinese language context;
- Participated in the technical development of commercial product Tanyi Telephone Robot in understanding paraphrases, helped to improve the response selection quality.

**Provincial Student Research Training Program (SRTP)**

**Hangzhou, China**

*Team Leader*

Apr 2018-Apr 2019

- Constructed a powerful Multi-round Open-domain Chatbot in Chinese context (MOC-C) with performance close to state-of-the-art models, enabling the model to memorize past conversation context.
- Applied an ensembled Transformer-based model to the project, and improved the response accuracy by more than 10%;
- Got 95/100 score in final defense (Top 1%).

## COMMUNITY AND PROJECT EXPERIENCE

**Debate Team of Zhejiang University**

**Hangzhou, China**

*Captain*

Apr 2017-Present

- Managed interior training, arranged exams weekly for team, including philosophy, economics and psychology subjects
- Won Gold prize of East China Chinese Debate Tournament; Third place of World Chinese Debate Championship, Zhejiang division; Championship of Qiushi Cup; Top 16 of International Chinese Students Debate Competition

**TV Station of Zhejiang University**

**Hangzhou, China**

*Chief Editor*

Sep 2016-Sep 2018

- Reviewed and verified of all press releases before published and hosted several school-level campus parties.
- Produced a large series of street interviews, in-depth reports and on-camera reports;

## OTHERS

- **Social Research:** Top 10 social research of Zhejiang University (discussing living quality of LGBTQ group in China)
- **Music & Art:** Best performance prize in Hosting Competition of Zhejiang University; Advanced piano and ukulele player; Member of Lingyun Choir, presented more than 10 stage performances
- **Mind Sports:** Member of Go team of Zhejiang University; First prize of Shanghai Go League of University Students.