

SHIJIE YAO

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EDUCATION

Master of Science in Speech and Language Processing

Sept 2017 - Nov 2018 (Expt)

The University of Edinburgh (UoE), UK

- Degree (expected): First-class Honours
- All Courses (Score/Level):
 - Speech Processing (83/A2)
 - Accelerated Natural Language Processing (76/A3)
 - Introduction to Phonology and Phonetics (75/A3)
 - Univariate Statistics using Methodology of R (80/A2)
 - Computer Programming for Speech and Language Processing (82/A2)
 - Speech Synthesis (72/A3)
 - Machine Translation (81/A2)
 - Automatic Speech Recognition (70/A3)
 - Natural Language Understanding (59/C)
 - The Human Factor: Working with Users (76/A3)
 - Topics in Natural Language Processing (80/A2)
- Dissertation: Sequence-to-sequence Japanese Neural Lemmatisation: *downeedsegmentation?* (Supervisor: [Prof. Sharon Goldwater](#)) (Ongoing)
 - The first attempt of adopting Sequence to Sequence models to Japanese morphological analysis tasks
 - Quantify the importance/unimportant of segmentation as a pre-requisite for morphological analysis of non-segmented languages
 - Build an end-to-end joint model for Japanese segmentation and lemmatisation

Bachelor of Arts in Japanese Language and Literature

Sept 2013 - Jun 2017

Shanghai Jiao Tong University (SJTU), China

- Major GPA: 3.99/4.0 (92/100) Overall GPA: 3.92/4.0 (91.5/100) Ranking: 1/18
- Dissertation: [A Study about Ateji in Japanese Popular Song Lyrics: From a Computational Perspective](#) (Supervisor: Miyuki Kawasaki)

Exchange in Faculty of Inter-cultural Studies, Linguistics

Apr 2015 - Feb 2016

Kobe University, Japan

GPA: 4.13/4.3

SKILLS AND INTERESTS

Natural Languages	Mandarin & Shanghai-based Wu dialect (native), English (proficient), Japanese (proficient)
Artificial Languages	Python, Bash Shell, HTML, CSS, \LaTeX
Frameworks	Keras, Tensorflow, Chainer, Kaldi, HTK
Hobbies	Photography, Programming, Piano, Dubbing, Singing

PROFESSIONAL EXPERIENCES

Data Intern in Algorithm Team @ Liulishuo, Shanghai

Jun 2017 - Sept 2017

- Wrote Python scripts to pre-process speech and language data for annotation
- Annotated native Chinese English learners' oral speaking and composition data
- Highly praised by colleagues due to high efficiency and expertise

EXTRA-CURRICULAR ACTIVITIES

Participant in Hackx SJTU Hackathon, SJTU

May 2017

- Carried out a chatbot for improving users' wording in chatting by applying the tone analyser API provided by IBM Watson and using NLTK
- Computed word similarity and built a system which could replace words with their synonyms of positive tones using NLTK

Participant in Rhodes x SJTU Youth Forum, SJTU

Mar 2017

- Made a conclusion talk as the group representative on the topic of "Be a good Chinese story teller (President Jinping Xi's words) - Promote the international understanding and identification of Chinese culture and voices"

Participant in "Meet the Prime Minister", SJTU

Nov 2013

- Discussed with David Cameron on Sino-UK issues

AWARDS

Outstanding Graduate (Top 1%), SJTU

Jun 2017

Merit Student (Top 3%), SJTU

Nov 2014

Scholarship for Outstanding Students (Top 5%, twice), SJTU

Oct 2014, Oct 2016

Japan "Jasso" Scholarship for International Students

Apr 2015 - Feb 2016

姚诗婕

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教育经历

硕士 语音和自然语言处理

2017.9 - 2018.11 (预计)

爱丁堡大学, 英国

- 学位 (预计): 一等学位 (First-class Honours)
- 所有课程 (分数 / 等级):
 - Python (82/A2)
 - 语音处理 (82/A2)
 - 统计与 R 语言 (80/A2)
 - 自然语言处理 (76/A3)
 - 音系学与语音学导论 (75/A3)
 - 语音合成 (72/A3)
 - 机器翻译 (81/A2)
 - 自然语言理解 (59/C)
 - 自然语言处理话题 (80/A2)
 - 人类因素: 面向用户 (76/A3)
- 毕业论文: Sequence to Sequence Japanese Neural Lemmatisation: *downeedsegmentation?* (指导教师: Sharon Goldwater 教授) (正在进行中)
 - 首次尝试采用 Sequence to Sequence 模型进行日语形态素分析
 - 分析讨论在 non-segmented 语言的形态素分析任务中, segmentation 作为前提的必要性与否
 - 实现 segmentation 与 lemmatisation 的联合模型, end-to-end 化日语形态素分析

学士 日语语言文学

2013.9 - 2017.6

上海交通大学, 中国

- 核心课程 GPA: 3.99/4.0 (92/100) 全部课程 GPA: 3.92/4.0 (91.5/100) 班级排名: 1/18
- 毕业论文: 日语流行歌曲歌词中的“当て字”现象的研究——从计算语言学视角 (指导教师: Miyuki Kawasaki)

交换生 国际文化学部, 语言学

2015.4 - 2016.2

神户大学, 日本

- GPA: 4.13/4.3

技能兴趣

编程语言	Python、HTML、CSS、 \LaTeX
机器学习框架	Keras、TensorFlow、Chainer、Kaldi、HTK
自然语言	普通话 & 上海方言 (母语)、英语 (托福: 106, 雅思: 7.5)、日语 (N1: 169、专业八级)
兴趣	摄影、编程、钢琴、日语配音、日语歌唱、英语写作

工作经验

算法组数据实习生 @ 英语流利说, 上海

2017.6 - 2017.9

- 编写 Python 脚本, 预处理用于标注的文本数据
- 标注中国学生的英语发音、英语作文数据, 协助编写科学合理的标注规则, 准确高效地批量处理数据

课外活动

- 积极参与者** Hackx SJTU 黑客马拉松 (利用 IBM Watson 的 tone analyser API 和自然语言处理技术, 团队协作实现提升用户表达方式的聊天机器人插件), 上海交通大学
- 与会者, 代表发言者** 上海交大 x 罗德青年论坛 (作为小组代表, 对讨论内容进行总结陈词, 小组讨论主题是“讲好中国故事”——提升中国文化和声音的国际理解与认知), 上海交通大学
- 积极参与者** “与首相面对面”与英国首相大卫卡梅伦就时事热点交换意见, 上海交通大学

获奖情况

优秀毕业生 (前 1%), 上海交通大学	2017.6
三好学生 (前 3%), 上海交通大学	2014.11
优秀学生奖学金 (前 5%, 两次), 上海交通大学	2014.10, 2016.10
日本 “JASSO” 留学生奖学金	2015.4 - 2016.2