

ZHENHAO LI

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EDUCATION

Imperial College London, UK

Supervisors: Prof. Lucia Specia, Dr. Marek Rei
PhD in Natural Language Processing
Department of Computing

October 2019 - Present

Imperial College London, UK

Supervisor: Prof. Lucia Specia
MSc in Computing(Artificial Intelligence)
Department of Computing

September 2018 - September 2019

degree: Distinction

Nanjing University, China

Supervisor: Prof. Jidong Ge
BEng in Software Engineering

September 2014 - June 2018

Overall Percentage: 87.8

PUBLICATIONS

Lucia Specia, **Zhenhao Li**, Juan Pino, Vishrav Chaudhary, Francisco Guzmán, Graham Neubig, Nadir Durrani, Yonatan Belinkov, Philipp Koehn, Hassan Sajjad, Paul Michel and Xian Li. *Findings of the WMT 2020 Shared Task on Machine Translation Robustness*. In Proceedings of the Fifth Conference on Machine Translation (WMT), 2020.

Zhenhao Li, Marina Fomicheva, Lucia Specia. *“Exploring Model Consensus to Generate Translation Paraphrases”* In Proceedings of the Fourth Workshop on Neural Generation and Translation (WNGT), 2020.

Zhenhao Li, Lucia Specia. *“Improving Neural Machine Translation Robustness via Data Augmentation: Beyond Back-Translation”* In Proceedings of The 5th Workshop on Noisy User-generated Text (W-NUT), 2019.

Linxia Yao, Jidong Ge, Chuanyi Li, Yuan Yao, **Zhenhao Li**, Jin Zeng, Bin Luo, Victor Chang. *“Word Segmentation for Chinese Judicial Documents”* In Data Science, 5th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE, 2019.

Zhenhao Li, Lucia Specia. *“A Comparison on Fine-grained Pre-trained Embeddings for the WMT19 Chinese-English News Translation Task”* In Proceedings of the Fourth Conference on Machine Translation (WMT), 2019.

WORK EXPERIENCE

Imperial College London

Research Assistant in Multimodal Machine Learning

June 2020 - Now

- Conducting research in Natural Language Processing using multimodal method. Currently working on two related projects in multimodal machine translation and multimodal dialogue derailment.

RECENT PROJECT

Multimodal Dialogue Derailment

- Incorporating multimodality to detect potential derailments (e.g. hate speech, off-topic comment) in dialogue.

- Data curation from Reddit.

Noisy Texts Translation with Grammatical Errors

- Multi-tasking neural machine translation model with grammatical error correction to improve robustness on noisy texts.

Translation Robustness with MMT

In submission to NAACL 2021

- Exploring the effect of multimodality in improving the robustness of machine translation models.

PATENT

Jidong Ge, Chuanyi Li, **Zhenhao Li**, Miaomiao Lei, Linxia Yao, Xiaoyu Zhou, Bin Luo, "A Word Segmentation Method on Judicial Document Based on PageRank and Information Entropy.", CN Patent, Application Number:201810534689.4, 30 May 2018

TEACHING

- Teaching assistant for [CO70016 Natural Language Processing](#) at ICL (Jan 2021 - Mar 2021)
- Teaching volunteer at [AI Core](#) (Mar 2020 - Apr 2020)
- Teaching assistant for CO490 Natural Language Processing at ICL (Jan 2020 - Mar 2020)

RESEARCH INTERESTS

deep learning, natural language processing, machine translation, multimodal machine learning