

# ZHILIN WANG

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## EDUCATION

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**University of Cambridge** BA Education, Psychology and Learning Oct 2017 - Jun 2020

- Focuses on Educational Technology, with particular applications to Natural Language Processing methods
- Proposed Dissertation: Computational measurement of socio-emotional skills using students' writing
- President, Education Society

**Online Courses** Computer Science and Natural Language Processing Jan 2017 - Current

- MIT 6.00 Introduction to Computer Science, 6.006 Introduction to Algorithms, and 11.132 Design and Development of Educational Technology
- Stanford CS124 From Language to Information, CS224N Natural Language Processing with Deep Learning, and CS229 Machine Learning

## PROJECT EXPERIENCE

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**learnAh.uk** Founder / Leader in team of four Oct 2018 - Jun 2019

- Helps teachers to make science fun to learn by recommending relevant popular science videos using machine-learning based text analysis (Latent Semantic Indexing & Latent Dirichlet Allocation) **Try it**
- Deployed on a Python Django-based website and accessible to third-party through REST API
- UCL Institute of Education Knowledge Lab EDUCATE Graduate (with EU grant) + Y Combinator Startup School Graduate + Runner-up, Cambridge University Entrepreneurs competition (Social Enterprise)

**learnAh.org** Founder / Leader in team of five Oct 2017 - Sep 2018

- Chemistry students can take a picture of a question they have trouble with to obtain videos and study notes as well as similar explained questions in order to solve the question **Try it**
- Helped >10,000 students + Winner, Cambridge University Engineering Society Ventures 2018 (Social Impact) + AngelHack London 2018 Grand Prize

## WORK EXPERIENCE

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**New Oriental AI Research Institute** Natural Language Processing Intern Jul - Sep 2019

- Researched on the use of active learning techniques to make the labelling of samples for supervised learning more effective for paragraph-level text classification. **Code | Findings**
- Created knowledge map for a secondary school Physics curriculum to link classroom recordings to content

**University of Cambridge Computer Laboratory** Natural Language Processing Intern Jul - Sep 2018

- Low-income students in India are unable to understand word problems in English, hindering their understanding of mathematical concepts.
- Developed web-app that translates questions into their mother tongue and finds definitions of difficult words in a just-in-time manner. **Code | Demo**

## PUBLICATIONS/AWARDS

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- **Zhilin Wang**, Weizhe Lin, Elena Rastorgueva and Xiaodong Wu. Identifying the most similar movie characters. 2019. *Under Review (Available upon request)*
- **Zhilin Wang**, Weizhe Lin, Elena Rastorgueva and Xiaodong Wu. Clustering help-seeking posts on Reddit. 2019. *Under Review (Available upon request)*
- **Zhilin Wang**, Elena Rastorgueva, Weizhe Lin and Xiaodong Wu. No, you're not alone: A better way to find people with similar experiences on Reddit. 2019. In *Proceedings of W-NUT at EMNLP*. **Read**
- **Zhilin Wang**, Andrew Caines, Russell Moore, Paula Buttery and Ianthi Tsimpli. Developing a prototype web-app for numeracy assessment and teaching. 2018. In *Cambridge Language Sciences Symposium*. **Read**
- Google Science Fair Global Finalist 2015 (Top 20 / >5,000) **Details | Press**

## TECHNICAL SKILLS

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- **Natural Language Processing**: PyTorch, Transformers, Keras, Scikit-Learn, Gensim, NLTK, SQL and Shell
- **Web Development**: HTML, CSS, Bootstrap, JavaScript, AJAX, Flask and Django