

# ZHILIN WANG

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## EDUCATION

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- University of Washington** MS Computational Linguistics Oct 2020 -  
• LING 566 Computational Syntax, LING 570 Shallow NLP, LING 571 Deep NLP
- University of Cambridge** BA Education, Psychology and Learning Oct 2017 - Jul 2020  
• President, Education Society  
• Thesis: Measuring people's empathy in writing using Natural Language Processing (NLP) **Read**  
• Second Thesis: Understanding what people associate with their subjective well-being using NLP **Read**
- Online Courses** Math, Computer Science and Natural Language Processing Jan 2017 - Feb 2020  
• **Imperial College London** Linear Algebra and Multivariate Calculus  
• **MIT** 6.00 Intro to Computer Science, 6.006 Intro to Algorithms, 6.008 Computational Probability  
• **Stanford** CS124 From Language to Information, CS224N Natural Language Processing with Deep Learning, and CS229 Machine Learning

## WORK EXPERIENCE

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- Amazon Alexa AI Knowledge** Software Engineering Intern Jun - Sep 2020  
• Improved Entity Resolution by 80% using knowledge graph embeddings and NLP algorithms (e.g. Viterbi)  
• Built an internal Python package, which is modular and extensible, to facilitate rapid experimentation
- University of Cambridge Psychometrics Centre** Research Intern Jan - Jun 2020  
• Researched on predicting psychological traits based on text in digital diary entries
- New Oriental AI Research Institute** Research Intern (NLP group) Jul - Sep 2019  
• Explored the use of active learning techniques to allow efficient labelling of samples for paragraph-level text classification tasks. **Code | Findings**
- University of Cambridge Computer Laboratory** Research Intern (NLP group) Jul - Sep 2018  
• Developed web-app that translates math word problems from English into Indian languages and defines difficult words to scaffold children's learning. **Code | Demo**

## PUBLICATIONS/AWARDS

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- **Zhilin Wang**, Weizhe Lin and Xiaodong Wu. 2020. Identifying similar movie characters. *Under Review* **Read**
- **Zhilin Wang**, Elena Rastorgueva, Weizhe Lin and Xiaodong Wu. 2019. No, you're not alone: A better way to find people with similar experiences on Reddit. In *Proceedings of W-NUT at EMNLP*. **Read**
- **Zhilin Wang**, Andrew Caines, Russell Moore, Paula Buttery and Ianthi Tsimpli. 2018. Developing a prototype web-app for numeracy assessment and teaching. In *Cambridge Language Sciences Symposium*. **Read**
- Google Science Fair Global Finalist 2015 (Top 20 / >5,000) **Details | Press**

## PROJECTS

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- learnAh.uk** Leader in team of four / Fullstack developer 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) **Demo**  
• Y Combinator Startup School Graduate + UCL Institute of Education EDUCATE Graduate (with EU grant)
- learnAh.org** Leader in team of five / Fullstack developer 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 **Demo**  
• Helped >30,000 students + Cambridge Uni Engineering Ventures First Prize + AngelHack London Grand Prize

## TECHNICAL SKILLS

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- **Natural Language Processing:** Python, PyTorch, Keras, SQL and Shell
- **Web Development:** Flask, Django, HTML, CSS, Bootstrap, JavaScript and AJAX,