

# ZHILIN WANG

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## EDUCATION

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- University of Washington** MS Computational Linguistics Oct 2020 -
- LING 570-572 Core NLP, LING 575 Dialogue Systems, CSE 573 AI GPA 4.0/4.0
  - Research projects on Dialogue knowledge extraction and Event extraction advised by Prof. Noah Smith
  - Google Computer Science Research Mentorship Program Participant
- University of Cambridge** BA Education, Psychology and Learning Oct 2017 - Jul 2020
- President, Cambridge University Education Society
  - Thesis: Measuring people's empathy in writing using Natural Language Processing (NLP) **pdf**
  - Second Thesis: Understanding what people associate with their subjective well-being using NLP **pdf**
- 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 NLP with Deep Learning, 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 [*Manuscript under Prep.*]
- 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** | **Poster**

## PUBLICATIONS/RESEARCH PROJECTS

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- **Zhilin Wang**, Pablo Torres. 2021. Beyond Annotations: Labelling empathy from the listener's perspective. *Under Review* **Code** | **pdf**
- **Zhilin Wang**, Weizhe Lin, Xiaodong Wu. 2021. Finding similar movie characters. *Under Review* **Code** | **pdf**
- **Zhilin Wang**, Elena Rastorgueva, Weizhe Lin, 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*. **pdf**

## PRODUCT-FOCUSED 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 >100k 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,