

ZHILIN WANG

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EDUCATION

University of Washington MS Computational Linguistics (NLP) Oct 2020 - Sep 2021

- Natural Language Processing, Artificial Intelligence, Dialogue Systems, Affective Computing *GPA 4.0/4.0*
- Google Computer Science Research Mentorship Program Participant

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

- Thesis: Computational Understanding of Language Relating to Subjective Well-Being **pdf**

Online Courses Math, Computer Science and Natural Language Processing Jan 2017 - Feb 2020

- **Imperial College London** Linear Algebra and Multivariate Calculus
- **MIT** Intro to Computer Science, Intro to Algorithms, Computational Probability
- **Stanford** From Language to Information, NLP with Deep Learning, Machine Learning

WORK EXPERIENCE

University of Washington Allen School of Computer Science Research Assistant Oct 20 - Sep 2021

- Predicting structured data (personal attributes and event relations) from language advised by Prof. Noah Smith
- Improved NLU by 2-13% using constraint decoding, discriminative reranking and commonsense integration

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

University of Cambridge Computer Laboratory Research Intern (NLP group) Jul - Sep 2018

- Developed web-app that scaffolds children's learning of math word problems. **Code** | **Demo** | **Poster**

PUBLICATIONS/RESEARCH PROJECTS

- **Zhilin Wang**, Xuhui Zhou, Rik Koncel-Kedziorski, Alex Marin, Fei Xia. 2021. Extracting and Inferring Personal Attributes from Dialogue *Under Conference Review* **Code** | **Paper**
- **Zhilin Wang**, Anna Jafarpour, Maarten Sap. 2021. Plot Twist: Uncovering Surprising Event Boundaries in Narratives *Under Conference Review* **Code** | **Paper**
- **Zhilin Wang**, Pablo Torres. 2021. Beyond Annotations: Labelling Empathy from the Listener's Perspective. *Under Submission* **Code** | **Paper** | **Honors thesis**
- **Zhilin Wang**, Weizhe Lin, Xiaodong Wu. 2021. Learning Similarity between Movie Characters and Its Potential Implications on Understanding Human Experiences. In *Proceedings of WNU at NAACL* **Code** | **Paper**
- **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*. **Paper**

PRODUCT-FOCUSED PROJECTS

learnAh.uk Leader in team of four / Fullstack and ML Engineer Oct 2018 - Jun 2019

- Recommends lesson-specific popular science videos to make learning science fun **Demo**
- Y Combinator Startup School Graduate + UCL Institute of Education EDUCATE Graduate (with EU grant)

learnAh.org Leader in team of five / Fullstack and ML Engineer Oct 2017 - Sep 2018

- Recommends question-specific tutorial videos, study notes and explained questions to support students **Demo**
- Helped >100k students + Cambridge Uni Engineering Ventures First Prize + AngelHack London Grand Prize

TECHNICAL SKILLS/SERVICE

- **Natural Language Processing**: Python, PyTorch, Keras and Shell
- **Web Development**: Flask, Django, HTML, CSS, SQL, Bootstrap, JavaScript and AJAX
- **Program Committee**: EMNLP 2021 and Personal Knowledge Graphs Workshop @ AKBC 2021