

Chenxi Whitehouse

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EDUCATION

06/2020 – now

City, University of London | London, UK

PhD: Computer Science

Supervisors: Dr. Pranava Madhyastha and Dr Tillman Weyde

Research Topic: Natural Language Understanding, Knowledge Integration, Multimodal Learning

09/2015 – 03/2018

University of Erlangen–Nuremberg | Erlangen, Germany

MSc: Communications and Multimedia Engineering

Supervisor: Prof. Dr.-Ing. André Kaup

Thesis Title: Connecting HoloLens with an Immersive Application

Core modules: Statistical Signal Processing, Speech and Audio Processing, Image and Video Processing

09/2016 – 08/2017

University College London, MSc Erasmus Exchange | London, UK

Core modules: Internet of Things, Communications Software and Modelling

Distinction on all master's modules taken in the Electronic and Electrical Engineering Department

09/2011 – 08/2015

Xi'an Jiaotong University | Xi'an, China

BSc: Information Engineering

Thesis Title: Image Registration Based on Feature Points

Core modules: Advanced Mathematics, Data Structure and Algorithm, Pattern Recognition

WORK EXPERIENCE

08/2022 – now

Research Scientist Intern | Amazon Alexa AI, Cambridge, UK

Working as a research intern at the Alexa Knowledge team

- Working on web-scale information retrieval for question answering

10/2021 – 03/2022

Research Scientist Intern | Huawei Noah Ark's Lab, London, UK

Worked as a research intern at the NLP team of the Huawei Noah Ark's Lab

- Worked on improving zero-shot cross-lingual transfer in language models
- Integrate entity-level cross-lingual knowledge and use code-switching techniques to improve low resource language performance on various entity-centric tasks

07/2021 – now

Machine Learning Engineer - Contractor | Replicate.ai, Seattle, US (remote)

Working as a remote machine learning engineer at Replicate.ai

- Improve the reproducible machine learning platform, where the research community can deploy and run models effortlessly and reproduce the work from publications
- Implement reproducible machine learning models on the platform from publications

01/2019 – 05/2020

Software Engineer | HP Inc UK Limited, London, UK

Worked in the HP Reveal team, focused on delivering better solutions for HP Home Printing Systems with Augmented Reality experiences

- Maintained and improved iOS code base for HP photo printers, worked closely with ARKit features such as slam tracking to improve application performance
- Research on image recognition and tracking to enhance user experience of scanning photos, labels, QR code, etc. using HP iOS mobile apps

04/2018 – 12/2018

Computer Vision Engineer | Inpixon, Berlin, Germany

Worked in the research & development team on mapping and navigation algorithms with Augmented Reality technologies. Developed iOS app for indoor navigation systems with SLAM.

10/2017 – 03/2018

Computer Vision Engineer Intern | Siemens AG, Nuremberg, Germany

6-month industry internship in the machine learning and computer vision team at Siemens, worked on industry use cases of Microsoft HoloLens

PUBLICATIONS

- C. Whitehouse, T. Weyde, P. Madhyastha and N. Komninos. "Evaluation of Fake News Detection with Knowledge-Enhanced Language Models". In: *Proceedings of the Sixteenth International AAAI Conference on Web and Social Media (AAAI ICWSM 2022)*.
- C. Whitehouse, F. Christopoulou and I. Iacobacci. "EntCS: Improving Zero-Shot Cross-lingual Transfer with Entity-Centric Code Switching". [EMNLP 2022 under review]
- C. Whitehouse, T. Weyde and P. Madhyastha. "Towards Jointly Generating Answers and Explanations for Visual Question Answering and Commonsense Reasoning". [AAACL-IJCNLP 2022 under review]

ADDITIONAL EXPERIENCES, SKILLS AND AWARDS

- **Software:** Python (advanced), Swift, Objective-C, JavaScript
- **ML Schools:** LxMLS 2022, Lisbon Machine Learning School (with Google Scholarship)
OxML 2022, Oxford Machine Learning Summer School
- **Scholarship:** PhD studentship, City, University of London, 2020-2024
Erasmus scholarship, University College London, 2017
Outstanding student scholarship, Xi'an Jiaotong University, 2013-2015