

Chau Luu

Curriculum Vitae

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Education

- 2018-2022 **PhD Language Processing, Speech Technology, Information Retrieval, Cognition**, UNIVERSITY OF EDINBURGH, CENTRE FOR SPEECH TECHNOLOGY RESEARCH, Focusing on deep speaker representation learning for verification and diarization [[Google Scholar](#)].
Supervisors: Prof. Steve Renals and Dr. Peter Bell.
- 2017-2018 **MSc Artificial Intelligence**, UNIVERSITY OF EDINBURGH, 74% *avg mark*.
Machine Learning Specialisation. IBM 1st Prize Winner out of over 120 groups for best Machine Learning Practical group project: "*Weight Sharing in Deep Reinforcement Learning for Continuous Control*"
- 2012-2016 **MPhys Physics**, DURHAM UNIVERSITY, *Upper Second Class Honours*.
- 2010-2012 **A-Levels**, TIFFIN SCHOOL, Kingston Upon Thames, *AAA(A)*.
Maths, Physics, Chemistry, (Further Maths AS)

Experience

- 2021-2021 **Research Science Internship**, AMAZON ALEXA, Cambridge.
A 4 month internship on the topic of streaming speaker-attributed ASR of overlapped speech using RNN-T, proposing a novel methodology and technique which is aimed to be presented at Interspeech 2022
- 2018-Present **Teaching Support Provider**, SCHOOL OF INFORMATICS, University of Edinburgh.
Demonstrator, marker, and tutor roles for Machine Learning Practical, Automatic Speech Recognition, and Reinforcement Learning
- 2016-2017 **Software Test Engineer**, CAMBRIDGE CONSULTANTS, Cambridge.
Created software test frameworks to analyse and verify product requirements and performance characteristics. Was test lead in computer vision/machine learning project that monitored car park occupancy

Publications

- 2020 **Leveraging speaker attribute information using multi task learning for speaker verification and diarization**, Chau Luu, Peter Bell, Steve Renals.
<https://arxiv.org/abs/2010.14269>, [[Code](#)] Presented at Interspeech 2021, Brno
- 2020 **DropClass and DropAdapt: dropping classes for deep speaker representation learning**, Chau Luu, Peter Bell, Steve Renals.
<https://arxiv.org/abs/2002.00453>, [[Code](#)] Presented at Speaker Odyssey 2020, Tokyo
- 2019 **Channel adversarial training for speaker verification and diarization**, Chau Luu, Peter Bell, Steve Renals.
<https://arxiv.org/abs/1910.11643>, Presented at ICASSP 2020, Barcelona

Skills

- Programming Python, bash, MATLAB, git
- Libraries PyTorch, TensorFlow, Keras, Kaldi, scikit-learn, pandas, OpenCV
- Teamwork Worked in teams in industry and academic projects with successful collaboration. Have received scrum master training.
- People Undergraduate freshers representative and postgraduate resident assistant positions held, coordinated and ran numerous events for fellow students.

Highlighted Projects

- GitHub simple-diarizer [[Link](#)], NN-based similarity for diarization [[Link](#)], Angular Penalty Loss function comparison [[Link](#)], Dropping classes for deep speaker representation learning [[Link](#)], Multi-task Learning for Speaker Embeddings [[Link](#)], Reddit bot for vegan myth classification using NLP [[Link](#)]