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British Citizen

Van Quy Chau Luu

Education

- 2018-2023 **PhD Language Processing, Speech Technology**, UNIVERSITY OF EDINBURGH, CENTRE FOR SPEECH TECHNOLOGY RESEARCH, Focusing on deep speaker representation learning for verification and diarization [[Google Scholar](#)]. Thesis: *'Leveraging deep speaker embedding variability factors for verification and diarization'*.
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*.

Experience

- 2022-2023 **Applied Scientist II**, AMAZON ALEXA, Aachen, Germany.
Acoustic Modelling team, Automatic Speech Recognition. Performed research and experimentation to improve end-to-end neural models used in production. Was part of model releases for Italian, German, Portuguese locales, in addition to working on a transition to a Conformer architecture.
- 2021-2021 **Research Science Internship**, AMAZON ALEXA, Cambridge, UK.
A 4 month internship on the topic of streaming speaker-attributed ASR of overlapped speech using RNN-T, proposing a neural architecture for online speaker attribution on top of an existing RNN-T.
- 2018-2022 **Teaching Support Provider**, SCHOOL OF INFORMATICS, University of Edinburgh.
Demonstrator, marker, and tutor roles for Machine Learning Practical, Automatic Speech Recognition, and Reinforcement Learning

Publications

- 2022 **Investigating the contribution of speaker attributes to speaker separability using disentangled speaker representations**, Chau Luu, Steve Renals, Peter Bell .
doi: 10.21437/Interspeech.2022-10643 [[Code](#)] Presented at Interspeech 2022, Incheon, South Korea
- 2021 **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, Czechia
- 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, Japan
- 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, Spain

Skills

Programming Python, bash, MATLAB, git

Libraries PyTorch, TensorFlow, Keras, Kaldi, OpenFST, scikit-learn, pandas, OpenCV, huggingface, spacy

Highlighted Projects

GitHub Projects 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](#)]