VIET-NHAT NGUYEN

nguyenvietnhat95@gmail.com ⋄ (+39) 3247999761 ⋄ (+84) 869042084

5046MC, Tilburg, Netherlands

EDUCATION

University of Trento, Italy *Sep 2018 - Oct 2020*
Master of Science in Computer Science GPA 29.16/30
Graduated with cum laude

VNU-HCM, University of Science, Vietnam *Sep 2013 - July 2017*
Bachelor of Science in Computer Science GPA 8.22/10
Graduated with honors, ranked 2nd in class

PUBLICATION/PREPRINT

. Shell Xu Hu, Md Rifat Arefin, Viet-Nhat Nguyen, Alish Dipani, Xaq Pitkow and Andreas Savas Tolias. AvaTr: One-Shot Speaker Extraction with Transformers. In Proceedings of *InterSpeech 2021*.

. Viet-Nhat Nguyen, Mostafa Sadeghi, Elisa Ricci, Xavier Alameda-Pineda. Deep Variational Generative Models for Audio-visual Speech Separation. In Proceedings of *2021 IEEE 31st International Workshop on Machine Learning for Signal Processing*.

. Mattia Antonino Di Gangi, Viet-Nhat Nguyen, Matteo Negri, Marco Turchi. Instance-Based Model Adaptation For Direct Speech Translation. In Proceedings of *International Conference on Acoustics, Speech, and Signal Processing 2020*.

. Mattia A. Di Gangi, Matteo Negri, Viet Nhat Nguyen, Amirhossein Tebbifakhr, Marco Turchi. Data Augmentation for End-to-End Speech Translation: FBK@IWSLT'19. In Proceedings of *International Workshop on Spoken Language Translation 2019*.

EXPERIENCE

UploadAI LLC, Texas *Dec 2020 - Oct 2021*
Machine Learning Engineer (remote contractor)

This is a spin-off from `http://ninai.org` funded by the US Government. Conducted projects related to using brain signals in auditory cortex to build more robust models, adversarial Machine Learning. I built Deep Learning models to address the problem of sound extraction and integrated regularization method derived from EEG data to improve model's robustness.

Inria Grenoble, France *Feb 2020 - Aug 2020*
Research Intern at Perception Team

· Addressed the problem of audio-visual speech separation given single-channel microphone mixed speech and video frames of the involved speakers, using CVAE models and probabilistic inference. The project involved in training and applying Machine Learning models on audio and images.
· Result: We built a system that could separate speeches in any types of noisy environments.

Fondazione Bruno Kessler Institute, Italy *July 2019 - Oct 2019*
Research Intern at Machine Translation group

· Applied Transformer architecture to Machine Translation

- Developed a novel method based on instance selection technique for speech-translation. Investigate how to extract different types of information from the speech audio focusing on the semantic and prosodic feature of the speech.
- Results: Our translation system improved performance of previous ones and we published 2 papers in international conferences.

VNG Corporation, Vietnam *Jan 2018 - Sep 2018*
Data Scientist at AI Lab, Zalo group

- Created new datasets for one of the first AI competitions in Vietnam.
- Researched and applied Deep Learning techniques for many problems in Zalo platform such as: Vietnamese speech synthesis, Vietnamese optical character recognition, etc.

VNG Corporation, Vietnam *Jun 2017 - Sep 2017*
Computer Vision Engineer Intern

- Researched and implemented many different algorithms for face detection problem and facial landmark problem. Deployed a demo application on mobile devices.

AI Lab, HCMC University of Science, Vietnam *Feb 2016 - May 2016*
Research Assistant

- Assisted with Vietnamese speech synthesis and NLP problems.

SKILLS

- Good knowledge of Machine Learning, Data Processing, Data Crawling techniques.
- Good at algorithms and data structures; Mathematical background.
- Programming: experienced in C/C++ and Python; SQL.
- Experience working with popular libraries such as Scikit-learn, Pytorch, TensorFlow, Keras, Gensim, spaCy, OpenCV, Pandas.
- Technologies: Git, Linux, Unix shell, LaTeX.
- Language: Vietnamese, English.

SCHOLARSHIP

- University of Trento Scholarship for excellent students, 2018, 2019.
- Italian Ministry of Foreign Affairs and International Cooperation scholarship for higher education degree (MAECI scholarship).
- Traveling scholarship for Research Summer School, Duy Tan University, Da Nang, Vietnam, 2018.
- KMS Technology scholarship for excellent informatics student, 2015.

ACHIEVEMENT

- Certificate of achivement as an excellent contestant at the Ultimate Coding Challenges, 2017.
- Certificate of achivement for passing the Qualification Round of the ENTROPY - DATA ANALYTICS COMPETITION, John von Neumann Institute, 2017.
- Third prize in the Computer Programming Olympiad at HCMC University of Science, 2017
- Certificate of participant for attending the Joint CIMPA - ICTP Research School on Lattices and Applications to Crytography and Coding theory in HCMC, 2016.
- Certificate of participant for participation in the Elimination Round of CodeChef's "SnackDown 2016".
- Twelfth place in the ACM-ICPC Vietnam Southern Provincial Programming Contest, 2015.
- Second prize in the Nghe An Province Olympiad in Informatics, 2013.