Emilie d'Olne

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Education

Imperial College London	London, UK
PhD – Speech and Audio Processing	2020 - Present
 Interests in binaural beamforming, dereverberation, speech enhancement, wearable microphone arrays, dis machine learning, deep learning. SMarTTER HEAR project in collaboration with University College London on hearing in dementia. 	stributed microphone networks,
MEng – Electrical and Electronic Engineering	2016 - 2020
Graduated with First Class Honours.Final year project: "Automatic detection of Alzheimer's Disease using speech".	
Athénée Royal Charles Rogier Liège 1	Liège, Belgium
Certificat d'Enseignement Secondaire Supérieur	2010 - 2016
Experience	
Imperial College London	London, UK
Research Assistant	Summer 2023
Collaborated with Meta Reality Labs on multimedia data collection for AR/VR applications.	
Research Intern	Summer 2019

Summer 2022

Research Scientist Intern

• Investigated the impact of data augmentation for automatic speech recognition (ASR) in accented speech.

Volunteering_

IEEE Student Branch, Imperial College London	London, UK
Vice-Chair, Treasurer	2021 – Present
Organising technical seminars and workshops, monitoring the branch's finances.	
Communications and Signal Processing Research Group, Imperial College London	London, UK
Postgraduate Student Representative	2021 - 2023
Represented students' interests within the department and at the university.	

Publications_

JOURNAL PUBLICATIONS

2023 **E. d'Olne**, A. H. Moore, P. A. Naylor, J. Donley, V. Tourbabin and T. Lunner, "Group conversations in Noisy environments (GiN) – Multimedia recordings for location-aware speech enhancement,", in *IEEE Open Journal of Signal Processing*, 2023.

CONFERENCE PROCEEDINGS

2022 **E. d'Olne**, V. W. Neo, and P. A. Naylor, "Speech Enhancement in Distributed Microphone Arrays Using Polynomial Eigenvalue Decomposition", in *Proc. Eur. Signal Process. Conf. (EUSIPCO)*, Belgrade, Serbia, 2022.

E. d'Olne, V. W. Neo, and P. A. Naylor, "Frame-based space-time covariance matrix estimation for polynomial eigenvalue decomposition-based speech enhancement", in *Proc. Int. Workshop on Acoust. Signal Enhancement (IWAENC)*, Bamberg, Germany, 2022.
 E. d'Olne, A. H. Moore, and P. A. Naylor, "Model-based beamforming for wearable microphone arrays", in *Proc. Eur. Signal Process. Conf. (EUSIPCO)*, Dublin, Ireland, 2021.

Awards_

2020	Institute of Engineering and Technology (IET) Prize Imperial College London, EEE Department	London, UK
2018, 2019, 2020	Dean's List for Academic Excellence Imperial College London, EEE Department	London, UK

Skills_

TechnicalMATLAB, Python, Bash, TensorFlow, C++, GitHub, Linux, HTML/CSSLanguagesFrench (bilingual), Spanish (intermediate), German (intermediate)