■ arsha.nagrani@gmail.com | 💣 www.robots.ox.ac.uk/ arsha/ | 🖸 a-nagrani | 🛅 arsha-nagrani-601a726b/

Education

University of Oxford Oxford Oxford, UK

DOCTOR OF PHILOSOPHY (PHD) IN COMPUTER VISION AND MACHINE LEARNING

Oct. 2016 - Oct. 2020

• Thesis: 'Multimodal Video Understanding using Deep Learning'.

· Supervised by Prof. Andrew Zisserman in the Visual Geometery Group (VGG). Supported by an EPSRC grant and Google PhD Fellowship Award.

University of Cambridge

Cambridge, UK

BA HONS AND MENG IN INFORMATION AND COMPUTER ENGINEERING, DISTINCTION (CLASS 1, 78.8%)

Oct. 2012 - Jun. 2016

• Master's thesis supervised by Prof. Roberto Cipolla and Prof. Richard Turner in the Computer Vision group.

Honors & Awards_

2021	ICASSP Outstanding Paper Award, For 'Slow-Fast Auditory Streams For Audio Recognition'	IEEE
2021	Outstanding Reviewer Award, CVPR	IEEE
2020	Rising Star in EECS, Awarded to EECS graduate and postdoctoral women	UC Berkeley
2018	Google PhD Fellowship, In Machine Perception, Speech Technology and Computer Vision	Google LLC
2017	Interspeech Best Student Paper Award , For 'VoxCeleb: A large-scale speaker identification dataset'	ISCA
2015,16	Townsend Scholarship , First Class degree of special merit, St. John's (twice)	Cambridge, UK
2016	College Cargill Prize, St. John's Cambridge	Cambridge, UK
2016	Wright Prize, St. John's Cambridge	Cambridge, UK
2016	Shared Cunningham Year Prize, St. John's Cambridge	Cambridge, UK
2012	Award for a perfect score (45/45), International Baccalaureate (IB) examinations	IBD

Appointments _

Google Research Cambridge, USA

RESEARCH SCIENTIST Oct. 2020 - Pres.

- · Video understanding using self-supervised and multi-modal machine learning.
- Manager: Cordelia Schmid.

Google ResearchMountain View, USA

RESEARCH INTERN May 2019 - Feb. 2020

- · Weakly supervised video understanding using deep learning.
- Supervised by Chen Sun, Cordelia Schmid and Rahul Sukthankar.

Cambridge, Computer Vision Lab

Cambridge, UK

RESEARCH INTERN

Jul. 2015 - Sep. 2015

- Implemented a Lettuce Image Classification tool using deep CNNs with the long term goal of automated lettuce harvesting.
- Funded by G's Global Growers and supervised by Roberto Cipolla.

Leadership/Outreach_____

2020	Panelist, Vaibhav Summit of Indian Scientists and Researchers organised by the Govt. of India	India
2020	Visiting Researcher , Wadhwani Al. Independent non-profit organisation developing Al solutions for social	l Mumbai, India
	good. Research on detecting COVID-19 from cough sounds and 3D reconstruction of newborns.	
2020	Organiser, Video Pentathlon, CVPR	Seattle, USA
2020,21	Organiser, Sight and Sound Workshop, CVPR	Seattle, Virtual
2019,20	Founding Organiser , VoxCeleb Speaker Recognition Challenge (VoxSRC19 and VoxSRC20) and Workshop	Graz, Virtual
2019,20	Organiser, Women in Computer Vision Workshop (WICV19 and WICV20), CVPR	Long Beach, Virtual
2018,19	Mentor, Black in Al Graduate Program	Online
2018-	Reviewer, ECCV, CVPR, ICCV, ICLR, BMVC, Neurlps, IEEE Access, numerous workshops	Online
2016	Founder, thefullapple technology publication for students	Cambridge, UK

Media

Al for Wildlife New Scientist, MIT Tech Review, Verdict UK, TechXplore, Cosmos Magazine, Digital Trends, Oxford News,

Science on Tap, Hindustan Times, E&T Magazine

VoxCeleb Speaker Recognition CMS Wire, Analytics Vidhya, Lionbridge AI, Forbes

> Other Google AI Blog, Women of Silicon Valley, CVPR Daily

Teaching

Google Research India Summer School, 2020 International Conference on Data Mining (ICDM), 2020 Oxford University MPLS DTC on Statistics and Data Mining, 2020 Lectures on Applications of Machine Learning

Lecture on Video Understanding using Multimodality Online Multimodal Knowledge Discovery Tutorial

Peer-Reviewed Publications

Chen, H., Xie, W., Afouras, T., Nagrani, A., Vedaldi, A. and Zisserman, A. "Localizing Visual Sounds the Hard Way". Conference on Computer Vision and Pattern Recognition (CVPR) 2021.

Seo, P.H., Nagrani, A. and Schmid, C. "Look Before you Speak: Visually Contextualized Utterances". Conference on Computer Vision and Pattern Recognition (CVPR) 2021.

Kazakos, E., Nagrani, A., Zisserman, A. and Damen, D. "Slow-Fast Auditory Streams For Audio Recognition". International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2021. Outstanding Paper Award

Brown, A.*, Huh, J.*, Nagrani, A.*, Brown, A., Chung, J. S., and Zisserman, A. "Playing a Part: Speaker Verification at the Movies". International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2021.

Bain, M., Nagrani, A., Brown, A., and Zisserman, A. "Condensed Movies: Story Based Retrieval with Contextual Embeddings". Asian Conference on Computer Vision (ACCV) 2020. Oral Presentation

Chung, J. S.*, Huh, J.*, Nagrani, A.*, Afouras, T., and Zisserman, A. "Spot the conversation: speaker diarisation in the wild". INTERSPEECH 2020.

Arnab, A., Sun, C., Nagrani, A. and Schmid, C. "Uncertainty-Aware Weakly Supervised Action Detection from Untrimmed Videos". European Conference on Computer Vision (ECCV) 2020.

Nagrani, A., Sun, C., Ross, D., Sukthankar, R., Schmid, C. and Zisserman, A. "Speech2Action: Cross-modal Supervision for Action Recognition". Conference on Computer Vision and Pattern Recognition (CVPR) 2020.

Nagrani, A.*, Chung, J.S.*, Albanie, S.* and Zisserman, A. "Disentangled Speech Embeddings using Cross-modal Self-supervision". International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020.

Bain, M., Nagrani, A., Schofield, D. and Zisserman, A. "Count, Crop and Recognise: Fine-Grained Recognition in the Wild". International Conference on Computer Vision (ICCV) Workshop, 2019. Oral Presentation

Nagrani, A.*, Chung, J.S.*, Xie, W. and Zisserman A., "VoxCeleb: Large-scale Speaker Verification in the Wild". Computer Speech and Language (CSL), 2019.

Kazakos, E., Nagrani, A., Zisserman, A. and Damen, D. "EPIC-Fusion: Audio-Visual Temporal Binding for Egocentric Action Recognition". International Conference on Computer Vision (ICCV), 2019. Second Highest Score at the Epic-Kitchens Action Recognition Competition at **CVPR 2019**

Schofield, D.*, and Nagrani, A.*, Zisserman, A. Hayashi, M. Matsuzawa, T. Biro, D. Carvalho, S. "Chimpanzee Face Recognition from videos in the wild using Deep Learning". Science Advances 5(9), eaaw0736, 2019

^{*} Equal Contribution

Liu, Y.* Albanie, S.* Nagrani, A.* and Zisserman, A., "Use What You Have: Video retrieval using representations from collaborative experts".

British Machine Vision Conference (BMVC), 2019

Xie, W. Nagrani, A. Chung, J. S. Zisserman A., "Utterance-level Aggregation For Speaker Recognition In The Wild". International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2019 Oral Presentation

Albanie, S.* Nagrani, A.* and Zisserman, A., "Emotion recognition in speech using Cross-modal Transfer in the wild". ACM multimedia, 2018

Nagrani, A.* Albanie, S.* and Zisserman, A., "Learnable PINs: Cross-Modal Embeddings for Person Identity". European conference on computer vision (ECCV), 2018

Chung, J.S.* Nagrani, A.* and Zisserman, A., "VoxCeleb2: Deep Speaker Recognition" INTERSPEECH, 2018.

Nagrani, A. Albanie, S. and Zisserman, A., "Seeing Voices and Hearing Faces: Cross-modal biometric matching". Conference on Computer Vision and Pattern Recognition (CVPR) 2018 Spotlight

Nagrani, A. and Zisserman, A., "From Benedict Cumberbatch to Sherlock Holmes: Character Identification in TV series without a Script.".
British Machine Vision Conference (BMVC), 2017. Oral Presentation

Nagrani, A. Chung, J.S. and Zisserman, A., "VoxCeleb: a large-scale speaker identification dataset." INTERPSEECH, 2017. Oral Presentation, Best Student Paper Award