

# Arsha Nagrani

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## Education

### University of Oxford

Oxford, UK

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

Oct. 2016 - Exp. Aug. 2020

- Supervised by Prof. Andrew Zisserman in the Visual Geometry Group (VGG). Supported by an EPSRC grant and Google PhD Fellowship Award. Areas of focus include self-supervised cross-modal and multimodal learning for images, video and audio data.
- 8 first author/joint first author publications in the first 3 years

### St. John's College, 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.

### Dhirubhai Ambani International School

Mumbai, India

INTERNATIONAL BACCALAUREATE (IB), **GRADE 45/45**

Oct. 2010 - Jun. 2012

## Honors & Awards

2018	<b>Google PhD Fellowship</b> , In Machine Perception, Speech Technology and Computer Vision	Global
2018	<b>Women in Computer Vision Travel Grant</b> , CVPR	Salt Lake City, USA
2017	<b>Best Student Paper Award</b> , INTERSPEECH	Stockholm, Sweden
2015,16	<b>Townsend Scholarship</b> , First Class degree of special merit, St. John's (twice)	Cambridge, UK
2016	<b>College Cargill Prize</b> , St. John's Cambridge	Cambridge, UK
2016	<b>Wright Prize</b> , St. John's Cambridge	Cambridge, UK
2016	<b>Shared Cunningham Year Prize</b> , St. John's Cambridge	Cambridge, UK
2012	<b>Award for a perfect score (45/45)</b> , International Baccalaureate (IB) examinations	Mumbai, India

## Work Experience

### Google AI

Mountain View, USA

RESEARCH INTERN

May 2019 - Present

- Working with Chen Sun, Cordelia Schmid and Rahul Sukthankar in the Perception Team on weakly supervised video understanding.

### Computer Vision Lab, University of Cambridge

Cambridge, UK

RESEARCH INTERN

May 2015 - Aug. 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. Implemented in Caffe and C++.

### Infosys Ltd.

Bangalore, India

SOFTWARE ENGINEERING INTERN

May 2014 - Aug. 2014

- Implemented a web based, intelligent performance analysis tool to consolidate performance test results, validate performance engineering laws and generate performance reports for the product platform teams. Implemented using Javascript, Java, Node JS and MongoDB.

## Leadership/Outreach

2019	<b>Organiser</b> , VoxCeleb Speaker Recognition Challenge (VoxSRC19) and Workshop	Graz, Austria
2019	<b>Co-Organiser</b> , Women in Computer Vision Workshop, CVPR	Long Beach, USA
2018,19	<b>Mentor</b> , Black in AI Graduate Program	Online
2018-	<b>Reviewer</b> , ECCV18, CVPR19, ICCV19, BMVC19, IEEE Access Journal	Online
2016	<b>Founder</b> , <a href="#">thefullapple</a> technology publication for students	Cambridge, UK

## Peer-Reviewed Publications

\* Equal Contribution

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, 2019

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”**. Proceedings of the IEEE 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)*

## Skills

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<b>Programming</b>	Python, C/C++, Matlab, MatConvNet, PyTorch, TensorFlow, Caffe
<b>Web</b>	Javascript, HTML5, CSS
<b>Languages</b>	English, Hindi, Spanish
<b>Interests</b>	Rock Climbing Top Rope Belay, Scuba Diving Open Water

## Media

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<b>Chimpanzee Face Recognition</b>	<a href="#">New Scientist</a> , <a href="#">MIT Tech Review</a> , <a href="#">Verdict UK</a> , <a href="#">TechXplore</a> , <a href="#">Cosmos Magazine</a> , <a href="#">Digital Trends</a> , <a href="#">Oxford News</a>
<b>VoxCeleb</b>	<a href="#">CMS Wire</a> , <a href="#">Analytics Vidhya</a> , <a href="#">Lionbridge AI</a>
<b>Other</b>	<a href="#">Google AI Blog</a> , <a href="#">Women of Silicon Valley</a>