

MAX BAIN

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RESEARCH INTERESTS

Vision and Language, Multimodal Learning, Computer Vision for Wildlife

EDUCATION

University of Oxford *Oct 2019 - Present*
Doctor of Philosophy in Computer Vision and Machine Learning
Supervised by Prof. A Zisserman in the Visual Geometry Group (VGG).

University of Oxford, Christ Church *Oct 2015 - June 2019*
Master of Engineering in Engineering Science Class I
Thesis: Fine-Grained Recognition in the Wild (84).

EXPERIENCE

SAP SE Berlin, DE
Machine Learning Research Associate *Summer 2019*
Researching unsupervised methods for classifying fine-grained data.

Visual Geometry Group, University of Oxford Oxford, UK
Undergraduate Research Intern *Summer 2018*
Automated chimpanzee recognition, in collaboration Oxford anthropologists.

PEER-REVIEWED PUBLICATIONS

Frozen in Time: A Joint Video and Image Encoder for End-to-End Retrieval
M. Bain, A. Nagrani, Gül Varol, A. Zisserman.
IEEE International Conference on Computer Vision (ICCV), 2021

Automated Audiovisual Behaviour Recognition in Wild Primates
M. Bain, A. Nagrani, D. Schofield, S. Berdugo, J. Bessa, J. Owen, K. J. Hockings, T. Matsuzawa, M. Hayashi, D. Biro, S. Carvalho, A. Zisserman
Science Advances (In Press), 2021

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

Count, Crop and Recognise: Fine-Grained Recognition in the Wild
M. Bain, A. Nagrani, D. Schofield, A. Zisserman.
International Conference on Computer Vision Workshops (ICCVW) [Oral], 2019

HONOURS & AWARDS

PhD Research Studentship, **Nielsen** *2019 - 23*
Best Information Engineering Thesis, **HMGCC** *2019*
Impactful Research Award, **Sony** *2019*
Diamond Jubilee Scholarship, **IET** *2015 - 19*

REVIEWING

2021 ICCV, CVPR

2020 ACCV (outstanding reviewer), CVPR, NeurIPS Pre-registration Workshop

SKILLS AND INTERESTS

Programming: Python, C/C++, Pytorch, Tensorflow

Markup Languages: HTML5, CSS, L^AT_EX

Climbing: Christ Church Mountaineering President, Oxford Varsity Boulderer ('19)