

SAGAR VAZE

Department of Engineering Science, Parks Road, Oxford, OX1 3PJ

(+44)7533583946 ♦ sagar@robots.ox.ac.uk ♦ sgvaze.github.io

EDUCATION

Visual Geometry Group, Oxford University

October 2019 - Present

PhD student in Machine Learning and Computer Vision

Co-supervised by Profs. Andrew Zisserman and Andrea Vedaldi

Facebook AI Studentship

Brasenose College, Oxford University

October 2014 - June 2018

Master of Engineering Science, Information Engineering, First Class Honours

Thesis: Segmentation of Adipose Tissue in Fetal Ultrasounds Using CNNs. Qualcomm Award for Best Biomedical 4th Year Project.

Modules included: Computer Vision & Robotics (90); Optimisation & Signal Analysis (94); Machine Learning (83); Advanced Probability & Dynamical Systems (90)

Yarm School

2007 - 2014

SELECTED RESEARCH

Generalized Category Discovery

ArXiv Preprint (Under Review), 2021. <https://arxiv.org/abs/2201.02609> Sagar Vaze, Kai Han, Andrea Vedaldi & Andrew Zisserman

Open-set Recongition: A Good Closed-Set Classifier is All You need

ArXiv Preprint (Under Review), 2021. <https://arxiv.org/abs/2110.06207> Sagar Vaze, Kai Han, Andrea Vedaldi & Andrew Zisserman

Semantically Grounded Object Matching for Robust Robotic Scene Rearrangement

ArXiv Preprint (Under Review), 2021. <https://arxiv.org/abs/2111.07975> Walter Goodwin, Sagar Vaze, Ioannis Havoutis & Ingmar Posner

Low-Memory CNNs Enabling Realtime Ultrasound Segmentation Towards Mobile Deployment

JBHI Special Issue: Deep Learning in Ultrasound Imaging, April 2020. Impact Factor 4.2. Sagar Vaze, Weidi Xie & Ana Namburet

PROFESSIONAL RESEARCH EXPERIENCE

Machine Learning Consultant, DeepPlanet

June 2019 - Present

Worked on computer vision applied to satellite imagery towards sustainable development goals.

Research Intern, Curious AI

January 2019 - April 2019

Worked on model uncertainty for robust planning in model based reinforcement learning.

Research Assistant, University of Oxford

June 2018 - August 2018

Worked on lightweight neural networks for mobile ultrasound analysis.

TECHNICAL SKILLS

Scripting Languages

Python, MATLAB

Tools

PyTorch, Keras, Latex