

# SAGAR VAZE

Department of Engineering Science, Parks Road, Oxford, OX1 3PJ  
(+44)7533583946 ◊ sagar@robots.ox.ac.uk ◊ sgvaze.github.io

## EDUCATION

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### 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

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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

*ICLR, 2022. (Oral) Sagar Vaze, Kai Han, Andrea Vedaldi & Andrew Zisserman*

Semantically Grounded Object Matching for Robust Robotic Scene Rearrangement

*ICRA, 2022* 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

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### 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

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### Scripting Languages

Python, MATLAB

### Tools

PyTorch, Keras, Latex