

Michael Hobley

Email: mahobley@gmail.com Website: mahobley.github.io

Education and Qualifications

DPhil (PhD) in Engineering Science
University of Oxford (Active Vision Laboratory)
"Counting with Limited Supervision"

October 2018 – April 2024
Supervisor: Victor Prisacariu

MEng – Master in Engineering Science
University of Oxford

October 2014 – July 2018
1st Class degree

Publication

"Say yes to the dress: shape and style transfer using conditional GANs" M.A. Hobley, V. A. Prisacariu. Asian Conference on Computer Vision (ACCV), 2018.

"DMS: Differentiable Mean Shift for Dataset Agnostic Task Specific Clustering Using Side Information" M.A. Hobley, V. A. Prisacariu. arXiv, 2019.

"Learning to Count Anything: Reference-less Class-agnostic Counting with Weak Supervision" M.A. Hobley, V. A. Prisacariu. Computer Vision and Pattern Recognition Conference (CVPR) T4V Workshop, 2023.

"ABC Easy as 123: A Blind Counter for Exemplar-Free Multi-Class Class-agnostic Counting" M.A. Hobley, V. A. Prisacariu. European Conference on Computer Vision (ECCV) 2024.

"EngineBench: Flow Reconstruction in the Transparent Combustion Chamber III Optical Engine" S.J. Baker, M.A. Hobley, I. Scherl, X. Fang, C.P. Leach, M. H. Davy, arXiv, 2024.

Employment

Machine Learning Product Owner – 2023 – Present
Noonien Ltd.

Delivered custom machine learning solutions in various industries.
Worked with clients from initial inquiry through to deployment to engineer machine learning tools to fit their specific needs.

Reviewer – 2022 – Present

Journal of Industrial Informatics Journal, Journal of Image and Vision Computing

Evaluated and critiqued academic submissions in various fields.
Communicated necessary and desirable improvements for publication.

College Lecturer – January 2018 – January 2024

Keble College, University of Oxford

Taught undergraduate students in both large classes as well as 2:1 tutorials on control systems, computer engineering, linear algebra, amongst others.

Keble College Rowing Head Coach – September 2022 – October 2024

Trinity College Rowing Head Women's Coach – September 2020 – September 2022

Managed teams up to 110 athletes and 5 assistant coaches. Designed and executed programs leading to the best result since 1983.

Machine Learning Research Consultant – February 2018 – April 2018

SAi

Researched computer vision and image generation. I presented this research along with its business application to technical staff and non technical members of the executive team.

Software Engineering Intern – June 2018 – September 2018

TPP

Developing patient facing systems that were deployed to 34% of doctors practises in the UK. Supported a live environment holding 50 million electronic health records, used by 250,000 clinical users, at 7,600 NHS organisations.

Key Awards

SAi Scholarship (DPhil)

Keble College Scholar for outstanding academic performance (MEng)

Technical Skills

Python (including extensive work with Pytorch), C#, Java, Javascript
Blender, Unity, p5.js