CHARIG YANG

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EDUCATION

PhD in Information Engineering, University of Oxford   Oct 2020 – Apr 2025
Advisors: Andrew Zisserman and Weidi Xie, Visual Geometry Group (VGG)

MEng in Engineering Science, University of Oxford   Oct 2016 – Jun 2020
First Class Honours. Rank: 2/162

WORK EXPERIENCE

Research Scientist Intern, Meta, USA   Jun – Dec 2024
Project: Long egocentric video understanding with multimodal LLMs

Software Engineering Intern, University of Oxford, UK   Aug – Sep 2020
Solely responsible for a software prototype to automate coding assessment for undergraduate projects

Software Engineering Intern, CP Group, Thailand   Jun – Aug 2020
Solely responsible for software to automate admin tasks and perform data analytics for a food centre

Research Intern, Oxford-Man Institute of Quantitative Finance, UK   Aug – Oct 2019
Software Engineering Intern, Japan Railways, Japan   Jul – Aug 2019
Research Intern, Visual Geometry Group, Oxford, UK   Mar – Apr 2019
Software Engineering Intern, Metaswitch, UK   Jun – Sep 2018
Telecoms Engineering Intern, True, Thailand   Jun – Aug 2017

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of Oxford   2020 – 2023
Taught: computer vision, machine learning (incl. practicals), robotics and control, mathematics, electronics

Engineering Admissions Tutor, Crimson Education / Freelance   2017 – 2023
Taught: A-level physics and mathematics, Oxbridge admission tests, mock interviews, residential programmes

PUBLICATIONS

Made to Order: Discovering Monotonic Temporal Changes via Self-supervised Video Ordering
C. Yang, W. Xie, A. Zisserman. *Under review.*

Moving Object Segmentation: All You Need is SAM (and Flow)
J. Xie, **C. Yang**, W. Xie, A. Zisserman. *Under review.*

It's About Time: Analog Clock Reading in the Wild
C. Yang, W. Xie, A. Zisserman. In: *Conference on Computer Vision and Pattern Recognition (CVPR), 2022*

Self-supervised Video Object Segmentation by Motion Grouping
C. Yang, H. Lamdouar, E. Lu, A. Zisserman, W. Xie. In: *International Conference on Computer Vision (ICCV), 2021*

Betrayed by Motion: Camouflaged Object Discovery via Motion Segmentation
H. Lamdouar, **C. Yang**, W. Xie, A. Zisserman. In: *Asian Conference on Computer Vision (ACCV), 2020*

AWARDS

Best Presentation Award at UK Robotics CDT Conference (2022)
Best Paper Award at CVPR Workshop (2021)
Best Poster Award for Information Engineering undergraduate thesis (2020)
Edgell Sheppee Prize for second-best overall academic performance in Engineering (2020)
EPSRC & AIMS Studentship full PhD scholarship for international students (2020)

ACTIVITIES AND SOCIETIES

Oxford University Poker Society (Treasurer, 2023-24), **Project Access** (Volunteer Mentor, 2016-24) mentoring scheme for underrepresented groups, **Oxford Strategy Group Digital** (Director, 2018-20) data science consultancy, **Engineers Without Borders Oxford** (President, 2018-19) engineering-based development projects, **Joint Consultative Committee** (Student Chair, 2017-19) department staff-student communication group, **Oxford Thai Society** (President, 2017-18)