CHARIG YANG

charigyang.github.io | charig@robots.ox.ac.uk

EDUCATION

University of Oxford   Oct 2020 – Sep 2024
Doctor of Philosophy in Autonomous Intelligent Machines and Systems
Advised by Andrew Zisserman and Weidi Xie, Visual Geometry Group (VGG)
University of Oxford   Oct 2016 – Jun 2020
Master of Engineering in Engineering Science, First Class Honours (82%, Rank 2/162)

WORK EXPERIENCE

Teaching Design Intern, University of Oxford – Virtual   Aug 2020 - Sep 2020
Explored methods and developed a pilot solution for a coding assessment component as part of the undergraduate coding project.
Business Analytics Intern, Charoen Pokphand Group – Bangkok, Thailand   Jun 2020 - Aug 2020
Built software packages to automate sales reporting and perform data analytics for a shopping mall.
Research Intern, University of Oxford – Oxford, UK   Aug 2019 - Oct 2019
Research assistant at Visual Geometry Group and Oxford-Man Institute of Quantitative Finance.
IT/Engineering Intern, Japan Railways – Tokyo, Japan   Jul 2019 - Aug 2019
Attached to Suica department on cashless payment systems (IC tickets, e-money platforms, credit cards).
Software Engineering Intern, Metaswitch Networks – Coventry, UK   Jun 2018 - Sep 2018
Built software packages in Python for testing of VoLTE services.
Telecommunications Engineering Intern, True Corporation – Bangkok, Thailand   Jun 2017 - Aug 2017
Identified and rectified problems regarding weak 3G/4G signals in Southern Bangkok region.

TEACHING EXPERIENCE

Engineering Science Tutor, University of Oxford   Oct 2020 - Present
Taught tutorials for undergraduate students, including first-year electronics (P2), second-year mathematics (A1), third-year
information engineering (B14) and fourth-year machine learning (C19).
Engineering Admissions Tutor, Crimson Education   Jul 2017 - Jun 2019
Taught A-level Physics and Maths, admission tests (PAT, ENGAA), and mock interviews. More than 50% received Oxbridge offers.

PUBLICATIONS

It's About Time: Analog Clock Reading in the Wild
Charig Yang, Weidi Xie, Andrew Zisserman
Under review

Self-supervised Video Object Segmentation by Motion Grouping
Charig Yang, Hala Lamdouar, Erika Lu, Andrew Zisserman, Weidi Xie
In: *RVSU Workshop, Conference on Computer Vision and Pattern Recognition (CVPR), 2021* (**Best Paper Award**)
In: *International Conference on Computer Vision (ICCV), 2021*

Betrayed by Motion: Camouflaged Object Discovery via Motion Segmentation
Hala Lamdouar, **Charig Yang**, Weidi Xie, Andrew Zisserman
In: *Asian Conference on Computer Vision (ACCV), 2020*

AWARDS

Best Paper Award Workshop on Robust Video Scene Understanding: Tracking and Video Segmentation, CVPR (2021)
EPSRC & AIMS Studentship full funding for graduate study for international students (2020)
Edgell Sheppee Prize for second-best overall academic performance in Engineering Science (2020)
Highly Commended Prize for best Information Engineering undergraduate thesis exhibit (2020)

ACTIVITIES AND SOCIETIES

Project Access (Volunteer Mentor, 2016-) Mentored students from underrepresented backgrounds applying for Engineering.
Oxford Strategy Group Digital (Director, 2018-20) Led 2 data science consultancy projects, managed recruitment and training.
Engineers Without Borders Oxford (President, 2018-19) Led team to organise and run 5 engineering development projects.
Joint Consultative Committee (Student Chair, 2017-19) Represented Engineering students in staff-student communication.
Oxford Thai Society (President, 2017-18) Organised 20 events a year for 70 members, including a food festival for 350 guests.