

Roberto M. Dyke

about

Post-doc assistant
Since 1st Sept. 2020
English & Portuguese

contact

Lugano, 6900
Ticino, Switzerland

+44 (0)7510 312974

info@robertodyke.com
robertodyke.com
 ORCID

languages

English (native)
Portuguese (A2)
Spanish (A2)

programming

MATLAB
Python
C/C++
L^AT_EX

skills

Programming, data analysis, project management, independent research, technical documentation.

education

- 2016–2021 **Ph.D.** in Computer Vision Cardiff University, UK
Project title: High Quality 3D Geometry And Appearance Reconstruction Of Non-Rigidly Deforming Objects Using Low-Cost RGB-D Cameras.
- 2013–2016 **B.Sc.** in Computer Science [First-class honrs.] Cardiff University
Dissertation: Automatic analysis of cliff faces from point cloud data captured using LiDAR.
- 2011–2013 **A-Level** in ICT [A], Computing [B], Statistics [B] Licensed Victuallers' School, UK

academic experience

- since 2020 **Post-doc assistant** Università della Svizzera italiana, Switzerland
Conducting independent research as part of an SNSF funded project investigating Barycentric Interpolation. Supervisor: Prof. Kai Hormann
- 2018–2019 **Summer intern co-supervisor** Cardiff University
Closely supervised an undergraduate student to conduct research for 8 weeks and subsequent final year project (24 weeks), which produced a publication.
- 2017 **Academic Approval Event panel member** Cardiff University
Assisted in the examination of proposed new and modified modules and courses, from B.Sc. courses to Professional Doctorate courses.
- 2016–2019 **Postgraduate Student Representative secretary** Cardiff University
Enabled a dialogue between staff and students in the School of Computer Science through organising and helping conduct formal meetings, as well as attending a variety of University-wide focus groups and panels. Also participated in many module, course and undergraduate summer research project approval panels.
- since 2016 **Ph.D. student** Cardiff University
Supervisors: Prof. Yu-Kun Lai, Prof. Paul L. Rosin
- 2015 **Summer research placement** Cardiff University
Conducted 8 week supervised research project in collaboration with School of Earth and Ocean Sciences, Cardiff University. Continued project for 24 weeks as part of undergraduate studies (see *B.Sc. Dissertation* above). Supervisors: Prof. Yu-Kun Lai, Dr. Tristram C. Hales

publications

- 3DOR 2020 **SHREC'20: Shape correspondence with non-isometric deformations**
R. M. Dyke, F. Zhou, Y. K. Lai, P. L. Rosin, S. Zappalà, S. Dykes, et al.
- 3DOR 2020 **SHREC'20: Non-rigid Shape Correspondence of Physically-Based Deformations**
R. M. Dyke, F. Zhou, Y. K. Lai, P. L. Rosin, et al.
- GMP 2019 **Non-Rigid Registration Under Anisotropic Deformations**
R. M. Dyke, Y. K. Lai, P. L. Rosin, G. K. L. Tam
- 3DOR 2019 **SHREC'19: Shape Correspondence with Isometric and Non-Isometric Deformations**
R. M. Dyke, C. Stride, Y. K. Lai, P. L. Rosin, et al.
- arXiv 2018 **HDFD – A High Deformation Facial Dynamics Benchmark for Evaluation of Non-Rigid Surface Registration and Classification**
G. Andrews, S. Endean, R. M. Dyke, Y. K. Lai, G. Ffroncon & G. K. Tam.

teaching

since 2021	Co-lecturer Co-lecturing a single semester Master's CVPR course.	Università della Svizzera italiana
2017–2019	Group project supervisor Supervising undergraduate group-based projects to deliver solutions to clients.	Cardiff University
since 2016	Teaching assistant Helped teach and prepare material in a variety of modules for both B.Sc. and M.Sc. students.	Cardiff University
2011–2012	Teaching assistant Teaching in a primary school (under 12s) ICT and Mathematics.	Licensed Victuallers' School

presentations & conferences

July 2021	SGP Conference Attended oral sessions	Toronto, Canada
Jan 2020	School of Computer Science & Informatics Attended poster session	Cardiff University, UK
Sept 2019	BMVC Conference Attended oral and poster sessions	Cardiff, UK
June 2019	GMP Conference Oral presentation of paper	Vancouver, Canada
May 2019	3DOR Workshop Oral presentation of paper	Genoa, Italy
Jan 2019	School of Computer Science & Informatics Poster presented at session	Cardiff University, UK
July 2018	Vision Researchers' Colloquium Poster presented at session	University of Bristol, UK
Jan 2018	School of Computer Science & Informatics Poster presented at session	Cardiff University, UK
July 2017	BMVA Summer School Poster presented at session	University of Lincoln, UK
June 2017	Vision Researchers' Colloquium Poster presented at session	University of Bath, UK
Mar 2017	BMVC RGB-D Technical Meeting Attended oral sessions	London, UK
Jan 2017	School of Computer Science & Informatics Presented at poster session	Cardiff University, UK

other experience

2021	3DOR workshop Program co-chair	Cardiff, UK
Sept 2019	BMVC Conference Facilitator	Cardiff, UK
July 2017	BMVA Summer School A five day intensive summer school on computational vision.	University of Lincoln, UK

awards

- | | | |
|------|---|------------------------------|
| 2016 | EPSRC Doctoral Training Partnership Ph.D. in Computer Science
A fully-funded scholarship with the objective to train the next generation of research leaders, innovators and entrepreneurs [Grant ref. EP/N509449/1]. | Cardiff University |
| 2012 | William Brake award
A £500.00 prize awarded for students displaying excellence in Computing. | Licensed Victuallers' School |

interests

professional: geometric processing, computational vision, academic research, teaching, and project supervision. **personal:** music — guitar & piano, foreign language — currently Italian & Portuguese, DIY, and electronics prototyping.