

Roberto M. Dyke

about

PhD Student
Since 1st Sept. 2016
English & Portuguese

contact

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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

- since 2016 **Ph.D.** student 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 hon.] 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

- 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.
- 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: Dr. 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: Dr. Yu-Kun Lai, Dr. Tristram C. Hales

publications

- 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. Ffrancon & G. K. Tam.

teaching

- 2017–2019 **Group project supervisor** Cardiff University
Supervising undergraduate group-based projects to deliver solutions to clients.
- since 2016 **Teaching assistant** Cardiff University
Helped teach and prepare material in a variety of modules for both B.Sc. and M.Sc. students.
- 2011–2012 **Teaching assistant** Licensed Victuallers' School
Teaching in a primary school (under 12s) ICT and Mathematics.

presentations & conferences

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

other experience

- Sept 2019 **BMVC Conference** Cardiff, UK
Facilitator
- July 2017 **BMVA Summer School** University of Lincoln, UK
A five day intensive summer school on computational vision.

awards

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

interests

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