LongChen

PhD Candidate at Bournemouth University, UK

contact

Flat 22,
Lansdowne House,
Christchurch Road,
Bournemouth
BH1 3JR

chenl@bournemouth.ac.uk
+44 07842722728
http://longchen.uk

skills

C/C++, Matlab, Linux, Python, Caffe, Tensorflow, Unity3D, Unreal Engine, LaTeX

Personal Details

Name:	Long Chen
Date of Birth:	20th AUG, 1990
Nationality:	China

Education

2015–present **PhD Candidate in Department of Creative Technology**
Bournemouth University, UK
Research Interest: Augmented Reality, Computer Vision, Machine Learning for image guided minimally invasive surgery and game interactions

2013–2014 **M.Sc in Medical Image Computing, Distinction(10%)**
University College London, UK
Coursework Project: Brain Image Multi-Atlas Segmentation and Registration, Multi-modality Registration of Liver Images for Guiding Minimally-invasive Interventions

Work Experience

2015–2015 **Software Engineer**
Toshiba Medical Systems Co., Ltd
My responsibility is to analysis, design and develop medical image processing algorithms and diagnostic applications for Toshiba's Medical Image Workstation.

2014–2015 **Advanced Application Intern**
GE Healthcare
My primary task is to develop the registration module for a DCE-MRI diagnostic software using C++. Implement and evaluate different registration algorithms for 3D DCE-MRI and Perfusion CT image sequences.

Research and Publications

2015-2017 **Augmented Reality in Minimally Invasive Surgery**
Chen *et al*, "Recent Developments and Future Challenges in Medical Mixed Reality", *16th IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2017 (Oral Presentation) [PDF]
Chen *et al*, "Real-time Geometry-Aware Augmented Reality in Minimally Invasive Surgery", *11th MICCAI workshop on Augmented Environments for Computer-Assisted Interventions (AECAI)*, 2017 (Oral Presentation)[[PDF]]

2016-2017 **Interactive Material-aware Augmented Reality Environment**
Chen *et al*, "Semantic Augmented Reality Environment with Material-Aware Physical Interactions", *16th IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2017 [[PDF]]

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