

WEIDI XIE

• Department of Engineering Science, University of Oxford • weidi.xie@eng.ox.ac.uk • +44 (0) 7598730577

EDUCATION

University of Oxford, UK

- D.Phil. in Engineering Science Oct 2014 – Jan 2018
 - Thesis: Deep Neural Networks in Computer Vision and Biomedical Image Analysis
 - Advisors: Professor Alison Noble and Professor Andrew Zisserman
 - Examined by: Professor Andrea Vedaldi (Internal), Professor Daniel Rueckert (External)

University College London, UK

- M.Sc. in Computer Graphics, Vision and Imaging Sep 2012 – Aug 2013
 - Thesis: Document Authorship Recognition with Machine Learning (DISTINCTION)

Queen Mary, University of London, UK (Exchange Student)

- B.Sc. in Telecommunication Engineering with Management (First-class Honour) Jun 2011 – Aug 2012

Beijing University of Posts and Telecommunications, China

- B.Sc. in Telecommunication Engineering Sep 2008 – Aug 2011

WORK EXPERIENCE

Department of Engineering Science, University of Oxford.

- Postdoctoral Researcher in Visual Geometry Group. Dec 2017- Now

MRC Laboratory for Molecular Cell Biology, University College London.

- Research Assistant. Sep 2013 – Feb 2014

PUBLICATIONS

BIOMEDICAL IMAGE ANALYSIS

- [2] Davis M. Vigneaulta*, **Weidi Xie***, Carolyn Y. Ho, David A. Bluemke, and J. Alison Noble, “ Ω -Net: Fully Automatic, Multi-View Cardiac MR Detection, Orientation, and Segmentation with Deep Neural Networks”. In: *Medical Image Analysis*, Volume 48, August 2018, Pages 95-106. (* indicates to equal contribution, 5-Year Impact Factor: 5.417)
- [3] Ruobing Huang, **Weidi Xie**, and J. Alison Noble, “VP-Nets : Efficient Automatic Localization of Key Brain Structures in 3D Fetal Neurosonography”. In: *Medical Image Analysis*, Volume 47, July 2018, Pages 127–139. (5-Year Impact Factor: 5.417)
- [1] Ana I.L. Namburete*, **Weidi Xie***, Mohammad Yaqub, Andrew Zisserman, J. Alison Noble, “Fully-Automated Alignment of 3D Fetal Brain Ultrasound to A Canonical Reference Space Using Multi-task Learning”. In: *Medical Image Analysis*, Volume 46, May 2018, Pages 1-14. (* indicates to equal contribution, 5-Year Impact Factor: 5.417)
- [4] Ana I.L. Namburete, **Weidi Xie**, and J. Alison Noble, “Robust Regression of Brain Maturation from 3D Fetal Neurosonography using CRNs”. In: *MICCAI Workshop on Fetal and Infant Image analysis. FIFI 2017*, Best Paper Award.
- [5] Davis M. Vigneaulta, **Weidi Xie**, David A. Bluemke, and J. Alison Noble, “Feature Tracking Cardiac Magnetic Resonance via Deep Learning and Spline Optimization”. In: *Functional Imaging and Modelling of the Heart. FIMH 2017*, Best Poster Award.
- [6] **Weidi Xie**, J. Alison Noble, and Andrew Zisserman, “Microscopy Cell Counting with Fully Convolutional Regression Networks”. In: *MICCAI 1st Deep Learning Workshop*, Munich, 2015.
- [7] **Weidi Xie**, J. Alison Noble, and Andrew Zisserman, “Microscopy Cell Counting And Detection with Fully Convolutional Regression Networks”. In: *Computer Methods in Biomechanics and Biomedical Engineering : Imaging & Visualization*.

COMPUTER VISION

- [8] **Weidi Xie**, Li Shen, and Andrew Zisserman, “Comparator Networks”. In: European Conference on Computer Vision (ECCV), 2018.
- [9] **Weidi Xie** and Andrew Zisserman, “Multicolumn Networks on Face Recognition”. In: British Machine Vision Conference (BMVC), 2018.

- [11] Qiong Cao, Li Shen, **Weidi Xie**, Omkar M. Parkhi, and Andrew Zisserman, “VGGFace2: A Dataset for Recognising Faces Across Pose and Age”. In: *IEEE International Conference on Automatic Face and Gesture Recognition (F&G)*, 2018, Oral.
- [12] **Weidi Xie**, J. Alison Noble, and Andrew Zisserman, “Layer Recurrent Neural Networks”. Tech Report, <https://openreview.net/pdf?id=rJJRDvcex>.

**AWARDS &
SCHOLARSHIPS**

- Best Paper Award in MICCAI workshop on Fetal and InFant Image Analysis. 2017
- Best Poster Award in Functional Imaging and Modelling of the Heart. 2017
- Google Oxford-Deepmind Graduate Scholarships. Oct 2015 – Oct 2017
Oxford-DeepMind Graduate Scholarships in Machine Learning and Biomedical Image Analysis.
- Magadalen Award, China Oxford Scholarship Fund (COSF). 2014 – 2015
For students with excellent academic record.
- Travel Award, Wolfson College, Oxford . 2015

PRESENTATIONS

- Deep Learning Workshop in MICCAI, Munich, 2015
- Microscopy Cell Counting with Fully Convolutional Networks, in Heidelberg Collaboratory for Image Processing Group.

**PROFESSIONAL &
ACTIVITIES**

- Reviewer for MICCAI, ECCV.
- Reviewer for IEEE Transactions on Medical Imaging.
- Reviewer for IEEE Journal of Biomedical and Health Informatics.

LANGUAGES

- Chinese (Native)
- English (Full Professional Proficiency)

[CV compiled on 2018-07-03]