



Dr. rer. nat. Ben Glocker

Lecturer in Medical Image Computing

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RESEARCH POSITIONS

University Senior-Lecturer Department of Computing Imperial College London, UK	since 2013 Senior since 2017
Postdoctoral Researcher Machine Learning and Perception Group Microsoft Research, Cambridge, UK	2010 – 2013
Research Assistant Computer Aided Medical Procedures Technische Universitaet Muenchen, Germany	2006 – 2010
Visiting Researcher Laboratoire MAS Ecole Centrale Paris, France	May – Oct 2006

EDUCATION

Doctoral Degree in Computer Science with High Distinction Computer Aided Medical Procedures Technische Universitaet Muenchen, Germany	2011
Diploma in Computer Science with High Distinction Technische Universitaet Muenchen, Germany Minor Subject: Theoretical Medicine	2006

FELLOWSHIPS

Microsoft Research Fellow Darwin College University of Cambridge, UK	2010 – 2012
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AWARDS / HONOURS

Member of the World Economic Forum's Young Scientists Community	2016
NVIDIA Global Impact Award – Honorable Mention	2016
ERCIM Cor Baayen Award – Honorable Mention	2013
Medical Image Analysis – MICCAI Best Paper Award	2013
Werner von Siemens Excellence Award	2007
Francois Erbsmann Prize	2007

EXECUTIVE SUMMARY

BG (h-index=29, citations >3200) is Senior-Lecturer in Medical Image Computing at the Department of Computing, Imperial College London, and deputy head of the Biomedical Image Analysis Group. He is Research Stream lead for Image Computing in the EPSRC CDT in Medical Imaging. His research focus is on machine learning for biomedical image computing. He has published >75 peer-reviewed conference papers, 28 journal articles and holds 4 international patents. He has received several awards including the Medical Image Analysis – MICCAI Best Paper Award 2013 and the prestigious Francois Erbsmann Prize in 2007. In 2016, he was invited as a Young Scientist to the World Economic Forum, an honour awarded to selected world leading scientists under the age of forty. He holds an ERC Starting Grant (MIRA) and his PI on EPSRC Grant (EP/N023668/1), and Co-I on EPSRC Healthcare Impact Partnership (EP/P023509/1) and EPSRC-NIHR HTC Partnership Plus Award (EP/N026993/1), MRC DPFS (MR/M025004/1), and NIHR EME (13/122/01), and several others. BG is currently supervising 2 postdocs and 6 PhD students.

PROFESSIONAL ACTIVITIES

Editorial Board

Elsevier's Journal on Medical Image Analysis, Elsevier's Journal on Image and Vision Computing

Steering Committee

EPSRC-NIHR HTC Partnership Award: Medical Image Analysis

Program Committee & Area Chair

MICCAI 2013/15/16, SPIE Medical Imaging 2015/16/17/18, WBIR 2014, ISVC Special Track 2009

Co-Organizer

NIPS Workshop Medical Imaging meets NIPS (MEDNIPS) 2017

British Machine Vision Conference (BMVC) 2017

1st MedIAN CodeFest 2017 – Medical Imaging Hackathon

International Workshop on Biomedical Image Registration (WBIR) 2016

BIH 2015 Symposium on clinical applications of machine learning in neuroimaging

MICCAI Workshop & Challenge CSI 2014/2015/2016, mTOP 2016, MSKI 2017

ISBI Special Session on Graphical Models for Biomedical Image Analysis 2015

MICCAI Tutorial on Intensity-based Deformable Registration 2010

1st Russian-Bavarian Conference on Biomedical Engineering 2005

Departmental Roles

Champion for Public Engagement

Affiliations

World Economic Forum's Young Scientists Community

Imperial Tech Foresight

Imperial Neurotrauma Centre

EPSRC Centre for Doctoral Training in Medical Imaging

EPSRC Centre for Doctoral Training in High Performance Embedded and Distributed Systems

Science and Solutions for a Changing Planet DTP

Centre for Doctoral Training in Neurotechnology

Guest Editor

Medical Image Analysis Special Issue on Discrete Graphical Models in Biomedical Image Analysis

Co-Founder

SpineWeb - Collaborative Platform for Research on Spine Imaging and Image Analysis

Journal & Conference Reviewer

IEEE T-PAMI, TMI, TIP, TBME, Springer Nature, IJCV, Elsevier MEDIA, CVIU, IMAVIS, Annals of Biomedical Engineering, MICCAI, IPMI, NIPS, CVPR, ICCV, ECCV, ISBI, SPIE

Funding Body Reviewer

European Research Council, Research Council UK, The Wellcome Trust (UK), Technology Foundation STW (NL), Action Medical Research (UK)

External PhD Examiner

Dr Bo Xiang (Ecole CentraleSupélec, N. Paragios), 28 Nov 2013; Dr Meelis Lootus (University of Oxford, A. Zisserman), 02 July 2015; Dr Monica Enescu (University of Oxford, J. Schnabel), 28 Sep 2015; Dr Vivien Fecamp (Ecole CentraleSupélec, N. Paragios), 12 Jan 2016; Dr Malte Hoffmann (University of Cambridge, G. Williams), 30 Jan 2017

PATENTS

Tracking using Sensor Data

Pub. No. US2015347846

Camera/Object Pose from Predicted Coordinates

Pub. No. US2014241617

Method for Combining Images and Magnetic Resonance Scanner

Pub. No. US2010067762

System and Method for Dense Image Registration using Markov Random Fields and Efficient Linear Programming

Pub. No. US2009046951

INVITED TALKS, KEYNOTES & LECTURES

EuSoMII Academy 2017: Game Changers in Radiology Unlocking patterns in medical images with AI Erasmus MC, Rotterdam, Netherlands, November 18	2017
BMVA Symposium: Computer Vision in Cancer Brain Tumour Segmentation with Deep Neural Nets British Computer Society, London, UK, October 11	2017
Deep Learning in Healthcare Summit Deep Learning in Medical Imaging – Successes and Challenges LSO St Luke's, London, UK, February 28	2017
Medical Computer Vision: Algorithms for Big Data Deep Learning for Brain Lesion Segmentation MICCAI Workshop Invited Talk, Athens, Greece, October 21	2016
Bayesian and Graphical Models for Biomedical Imaging – BAMBI Solving Continuous Problems with Discrete Optimization MICCAI Workshop Keynote, Athens, Greece, October 21	2016
Medical Imaging Summer School – MISS Medical Imaging meets Machine Learning Favignana, Sicily, Italy, July 31 – August 6	2016
UCL Medical Image Computing Summer School CMIC, London, UK, July 22	2016
Girls' Engineering Summer School London, UK, July 19/20	2016
World Economic Forum IdeasLab Unlocking Patterns in Medical Images with Artificial Intelligence WEF Annual Meeting of the New Champions, Tianjin, China, June 26	2016
Deep Learning in Healthcare Summit Deep Learning for Semantic Understanding of Medical Images LSO St Luke's, London, UK, April 7	2016

Academy of Medical Sciences Machine Learning for Complex Data Analyses London, UK, March 14	2016
Big Data, Multimodality & Dynamic Models in Biomedical Imaging Machine Learning for Medical Image Analysis Isaac Newton Institute, Cambridge, UK, March 9	2016
Royal College of Radiologists Machine Learning Event London, UK, January 7	2016
Alan Turing Institute: Scientific Scoping Workshop Big data in medical imaging: passing fad or paradigm shift British Library, London, UK, December 7	2015
UCL Medical Image Computing Summer School London, UK, August 10	2015
Girls' Engineering Summer School London, UK, July 23	2015
Launch Event: Imperial's Clinical Imaging Facility and the Biological Imaging Centre Semantic Imaging: Machine Learning in Medical Image Analysis Wolfson Education Centre, Hammersmith Campus, London, UK, July 16	2015
1st ICML Workshop on Machine Learning meets Medical Imaging Lille, France, July 11	2015
3rd Biomedical Image Analysis Summer School Institut Henri Poincare, Paris, France, July 10	2015
CSAIL Biomedical Imaging and Analysis Seminar Series Learning to Understand Medical Images MIT, Boston, USA, September 12	2014
London Critical Care Data Marathon Semantic Imaging – Learning to Understand Medical Images IDEALondon, London, UK, September 6	2014
Symposium of the Rank Prize Funds Medical Imaging meets Computer Vision Grasmere, Lake District, UK, March 18	2013
Darwin College Sciences Group Medical Image Computing – The role of computer science in clinical routine University of Cambridge, UK, November 11	2010

PHD STUDENTS

Daniel Coelho De Castro, 1st Supervisor, since Oct 2016
Robert Robinson, 1st Supervisor, since Oct 2016
Nick Pawlowski, 1st Supervisor, since Oct 2016
Ian Walker, 1st Supervisor, since Oct 2016
Konstantinos Kamnitsas, 1st Supervisor, since Oct 2014
Matthew Lee, 1st Supervisor, since Oct 2014

Sebastian Popescu, 2nd Supervisor, since Oct 2017
Vanya Valindria, 2nd Supervisor, since Apr 2015
Amir Alansary, 2nd Supervisor, since Oct 2014
Fahdi Kanavati, 2nd Supervisor, since Oct 2013