

Curriculum Vitae

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Education

- 1984-1987: B.Sc. (Hons, 1st class), Physics, University of Manchester
- 1987-1991: Ph.D., MRI Physics, University of Cambridge (Supervisor: Prof. Laurie D. Hall)

Post-Doctoral Training

- 1991-1995: Laboratory of Cardiac Energetics, NHLBI, National Institutes of Health, USA (Lab Chief Dr Robert S. Balaban, Supervisor, Dr Robert Turner)

Academic Appointments

- 1995-1997: Chief, Unit on MRI Physics, Laboratory of Brain and Cognition, NIMH, National Institutes of Health, USA (Lab Chief, Dr Leslie G. Ungerleider)
- 1997-2003: Head of Magnetic Resonance Physics, Oxford Centre for Functional Magnetic Resonance Imaging of the Brain, Department of Clinical Neurology, University of Oxford
- 1998-2003: MRC External Scientific Staff, seconded to: Oxford Centre for Functional Magnetic Resonance Imaging of the Brain, Department of Clinical Neurology, University of Oxford
- 2000-2003: Research Fellow, Wolfson College, Oxford
- 2003-2015: Co-Director and Methods Director, Oxford Centre for Clinical Magnetic Resonance Research, University of Oxford
- 2003-present: Herbert Dunhill Professor of Neuroimaging, Nuffield Department of Clinical Neurosciences, University of Oxford
- 2003-present: Fellow, University College, Oxford (Dean of Graduates 2011-2018; Vice-Master 2018-)
- 2009-present: Head of Neuroimaging, Oxford Acute Vascular Imaging Centre, University of Oxford and Oxford University Hospitals NHS Trust
- 2009-2013: Chair, Graduate Studies Committee, Medical Sciences Division, University of Oxford
- 2014-2017: Chair, Graduate Admissions Committee, University of Oxford (also member of Education Committee and Graduate Panel)
- 2014-2022: Director, EPSRC and MRC Centre for Doctoral Training in Biomedical Imaging (joint initiative between the Universities of Oxford and Nottingham)

Papers

1) T.A. Carpenter, L.D. Hall and P. Jezzard, "Proton Magnetic Resonance Imaging of Solid Polymers Using Instrumentation Designed for the Liquid State", *Journal of Magnetic Resonance*, **84**, 383-387 (1989)

- 2) A.G. Webb, P. Jezzard, L.D. Hall and S. Ng, "Detection of Inhomogeneities in Rubber Samples Using NMR Imaging", *Polymer Communications*, **30**, 363-366 (1989)
- 3) P. Jackson, J.A. Barnes, N.J. Clayden, T.A. Carpenter, L.D. Hall and P. Jezzard, "Defect Detection in Carbon Fibre Composite Structures by Magnetic Resonance Imaging", *Journal of Materials Science Letters*, **9**, 1165-1168 (1990)
- 4) P. Jackson, N.J. Clayden, N.J. Walton, T.A. Carpenter, L.D. Hall and P. Jezzard, "Magnetic Resonance Imaging Studies of the Polymerisation of Methyl Methacrylate", *Polymer International*, **24**, 139-143 (1991)
- 5) P. Jezzard, T.A. Carpenter, L.D. Hall, P. Jackson and N.J. Clayden, "Simple NMR Imaging of Solid Polymers at Elevated Temperatures", *Polymer Communications*, **32**, 74-76 (1991)
- 6) P. Jezzard, C.J. Wiggins, T.A. Carpenter, L.D. Hall, J.A. Barnes, P. Jackson and N.J. Clayden, "Demonstration of Nuclear Magnetic Resonance Imaging for Void Detection in Carbon-Fibre Reinforced Polymer Composites, and Comparison With Ultrasound Methods", *Journal of Materials Science*, **27**, 6365-6370 (1992)
- 7) P. Jezzard, T.A. Carpenter, L.D. Hall, N.J. Clayden and P. Jackson, "Temperature Mapping in Solid Polymers Using the Temperature Dependence of NMR Relaxation Times", *Journal of Polymer Science: B - Polymer Physics*, **30**, 1423-1425 (1992)
- 8) P. Jezzard, C.J. Wiggins, T.A. Carpenter, L.D. Hall, P. Jackson, N.J. Clayden and N.J. Walton, "Nuclear Magnetic Resonance Imaging of Polymers and Polymer Composites", *Advanced Materials*, **4**, 82-90 (1992)
- 9) R. Turner, P. Jezzard, H. Wen, K.K. Kwong, D. LeBihan, T. Zeffiro and R.S. Balaban, "Functional Mapping of the Human Visual Cortex at 4 and 1.5 Tesla using Deoxygenation Contrast EPI" *Magnetic Resonance in Medicine*, **29**, 277-279 (1993)
- 10) D. LeBihan R. Turner, T.A. Zeffiro, C.A. Cuenod, P. Jezzard and V. Bonnerot, "Activation of Human Primary Visual Cortex During Visual Recall: A Magnetic Resonance Imaging Study", *Proceedings of the National Academy of Science, USA*, **90**, 11802-11805 (1993)
- 11) L. Rueckert, I. Appollonio, J. Grafman, P. Jezzard, R. Johnson Jr, D. LeBihan and R. Turner, "Magnetic Resonance Imaging Functional Activation of Left Frontal Cortex During Covert Word Production", *Journal of Neuroimaging*, **4**, 67-70 (1994)
- 12) R. Turner and P. Jezzard, "Magnetic Resonance Functional Imaging of the Brain at 4 Tesla", *Magnetic Resonance Materials in Physics, Biology and Medicine (MA*GMA)*, **2**, 147-156 (1994)
- 13) K. Friston, P. Jezzard and R. Turner, "The Analysis of Functional MRI Time Series", *Human Brain Mapping*, **1**, 153-171 (1994)
- 14) P. Jezzard, F. Heineman, J. Taylor, D. DesPres, H. Wen, R.S. Balaban and R. Turner, "Comparison of EPI Gradient-Echo Contrast Changes in Cat Brain Caused by Respiratory Challenges with Direct Simultaneous Evaluation of Cerebral Oxygenation Via a Cranial Window", *NMR in Biomedicine*, **7**, 35-44 (1994)
- 15) M. Leonardo, J. Fieldman, N. Sadato, G. Campbell, V. Ibanez, L. Cohen, M.-P. Deiber, P. Jezzard, T. Pons, R. Turner, D. LeBihan and M. Hallett, "A Magnetic Resonance Functional Neuroimaging Study of Cortical Regions Associated with Motor Task Execution and Motor Ideation in Humans", *Human Brain Mapping*, **3**, 83-92 (1995)
- 16) K.J. Friston, L.G. Ungerleider, P. Jezzard and R. Turner, "Characterizing Modulatory Interactions Between Areas V1 and V2 in Human Cortex: A New Treatment of Functional MRI Data", *Human Brain Mapping*, **2**, 211-224 (1995)
- 17) D. LeBihan, P. Jezzard, J. Haxby, N. Sadato, L. Rueckert and V. Mattay, "Functional Magnetic Resonance Imaging of the Brain", *Annals of Internal Medicine*, **122**, 296-303 (1995)
- 18) P. Jezzard and R.S. Balaban, "Correction for Geometric Distortion in Echo Planar Images from B. Field Variations", *Magnetic Resonance in Medicine*, **34**, 65-73 (1995)
- 19) L. Hertz-Pannier, C.A. Cuenod, S. Posse, P. Jezzard, A. Prinster, R. Turner and D. LeBihan, "Functional Brain Imaging at 1.5 Tesla: Feasibility Study and Comparison Between Conventional Gradient Echo Sequences and Echo-Planar Imaging", *Revue d'Imagerie Medicale*, **7**, 13-20 (1995)

- 20) A. Karni, G. Meyer, P. Jezzard, M.M. Adams, R. Turner and L.G. Ungerleider, "Functional MRI Evidence for Adult Motor Cortex Plasticity During Motor Skill Learning", *Nature*, **377**, 155-158 (1995)
- 21) B.J. Casey, J.D. Cohen, P. Jezzard, R. Turner, D.C. Noll, R.J. Trainor, J. Giedd, D. Kaysen, L. Hertz-Pannier and J.L. Rapoport, "Activation of Prefrontal Cortex in Children During a Non-Spatial Working Memory Task with Functional MRI", *NeuroImage*, **2**, 221-229 (1995)
- 22) P. Jezzard, S. Düwell and R.S. Balaban, "MR Relaxation Times in Human Brain: Measurement at 4 T", *Radiology*, **199**, 773-779 (1996)
- 23) S. Düwell, S.D. Wolff, H. Wen, R.S. Balaban and P. Jezzard, "MR Imaging Contrast in Human Brain Tissue: Assessment and Optimization at 4 T", *Radiology*, **199**, 780-786 (1996)
- 24) J. Pekar, P. Jezzard, D.A. Roberts, J.S. Leigh Jr, J.A. Frank and A.C. McLaughlin, "Perfusion Imaging with Compensation for Asymmetric Magnetization Transfer Effects", *Magnetic Resonance in Medicine*, **35**, 70-79 (1996)
- 25) S. Düwell, C.E. Kasserra, P. Jezzard and R.S. Balaban, "Evaluation of Methemoglobin as an Autologous Intravascular MRI Contrast Agent", *Magnetic Resonance in Medicine*, **35**, 787-789 (1996)
- 26) P. Jezzard and A.W. Song, "Technical Foundations and Pitfalls of Clinical fMRI", *NeuroImage*, **4**, S63-S75 (1996)
- 27) C. Pierpaoli, P. Jezzard, P.J. Basser, A. Barnett and G. Di-Chiro, "Diffusion Tensor MR Imaging of the Human Brain", *Radiology*, **201**, 637-648 (1996)
- 28) F.Q. Ye, J.J. Pekar, P. Jezzard, J. Duyn, J.A. Frank and A.C. McLaughlin, "Perfusion Imaging of the Human Brain at 1.5 T Using a Single-Shot EPI Spin Tagging Approach", *Magnetic Resonance in Medicine*, **36**, 219-224 (1996)
- 29) P. Jezzard and R. Turner, "Magnetic Resonance Imaging Methods for Study of Human Brain Function and their Application at High Magnetic Field", *Computerized Medical Imaging and Graphics*, **20**, 467-481 (1996)
- 30) F.Q. Ye, V.S. Mattay, P. Jezzard, J.A. Frank, D.R. Weinberger and A.C. McLaughlin, "Correction for Vascular Artifacts in Cerebral Blood Flow Values Measured by Using Arterial Spin Tagging Techniques", *Magnetic Resonance in Medicine*, **37**, 226-235 (1997)
- 31) D. Bavelier, D. Corina, P. Jezzard, S. Padmanabhan, V.P. Clark, A. Karni, A. Prinster, A. Braun, A. Lalwani, J.P. Rauschecker, R. Turner and H.J. Neville, "Sentence Reading: A Functional MRI Study at 4 Tesla", *Journal of Cognitive Neuroscience*, **9**, 664-686 (1997)
- 32) F.A. Jaffer, H. Wen, P. Jezzard, R.S. Balaban, J.S. Leigh and S.D. Wolff, "Centric Ordering is Superior to Gradient Moment Nulling for Motion Artifact Reduction in EPI", *Journal of Magnetic Resonance Imaging*, **7**, 1122-1131 (1997)
- 33) A. Prinster, C. Pierpaoli, R. Turner and P. Jezzard, "Simultaneous Measurement of DR2 and DR2* in Cat Brain During Hypoxia and Hypercapnia", *NeuroImage*, **6**, 191-200 (1997)
- 34) A.W. Song, S.D. Wolff, R.S. Balaban and P. Jezzard, "The Effect of Off-Resonance Radiofrequency Pulse Saturation on fMRI Contrast", *NMR in Biomedicine*, **10**, 208-215 (1997)
- 35) P. Jezzard, J.P. Rauschecker and D. Malonek, "An In Vivo Model for Functional MRI in Cat Visual Cortex", *Magnetic Resonance in Medicine*, **38**, 699-705 (1997)
- 36) A. Karni, G. Meyer, C. Rey-Hipolito, P. Jezzard, M.M. Adams, R. Turner and L.G. Ungerleider, "The Acquisition of Skilled Motor Performance: Fast and Slow Experience-Driven Changes in Primary Motor Cortex", *Proceedings of the National Academy of Sciences, USA*, **95**, 861-868 (1998)
- 37) H.J. Neville, D. Bavelier, D. Corina, J. Rauschecker, A. Karni, A. Lalwani, A. Braun, V. Clark, P. Jezzard and R. Turner, "Cerebral Organization for Language in Deaf and Hearing Subjects: Biological Constraints and Effects of Experience", *Proceedings of the National Academy of Sciences, USA*, **95**, 922-929 (1998)
- 38) P. Jezzard, A.S. Barnett and C. Pierpaoli, "Characterization of and Correction for Eddy Currents in Echo Planar Diffusion Imaging", *Magnetic Resonance in Medicine*, **39**, 801-812 (1998)

- 39) D. Bavelier, D. Corina, P. Jezzard, V. Clark, A. Karni, A. Lalwani, J.P. Rauschecker, A. Braun, R. Turner and H.J. Neville, "Hemispheric Specialization for English and ASL: Left Invariance - Right Variability", *Neuroreport*, **9**, 1537-1542 (1998)
- 40) A.C. McLaughlin, J.A. Frank, P. Jezzard and D.R. Weinberger, "Perfusion Imaging: Quantitative Cerebral Blood Flow Mapping in Humans Using Magnetic Resonance Imaging", *Journal of Stroke and Cerebrovascular Diseases*, **7**, 228-229 (1998)
- 41) P. Jezzard, "Advances in Perfusion MR Imaging", *Radiology*, **208**, 296-299 (1998)
- 42) P. Jezzard, S. Clare, "Sources of Distortion in Functional MRI Data", *Human Brain Mapping*, **8**, 80-85 (1999)
- 43) S. Clare and P. Jezzard, "Rapid T1 Mapping Using Multislice Echo-Planar Imaging", *Magnetic Resonance in Medicine*, **45**, 630-634 (2001)
- 44) M. Alecci, C.M. Collins, M.B. Smith and P. Jezzard, "Radio Frequency Magnetic Field Mapping of a 3 Tesla Birdcage Coil: Experimental and Theoretical Dependence on Sample Properties", *Magnetic Resonance in Medicine*, **46**, 379-385 (2001)
- 45) S. Clare, M. Alecci and P. Jezzard, "Compensating for B1 Inhomogeneity using Active Transmit Power Modulation", *Magnetic Resonance Imaging*, **19**, 1349-1352 (2001)
- 46) A.J. Newman, D. Bavelier, D. Corina, P. Jezzard and H.J. Neville, "A Critical Period for Right Hemisphere Recruitment in American Sign Language Processing", *Nature Neuroscience*, **5**, 76-80 (2002)
- 47) M. Alecci and P. Jezzard, "Characterisation and Reduction of Gradient-Induced Eddy Currents in the RF Shield of a TEM Resonator", *Magnetic Resonance in Medicine*, **48**, 404-407 (2002)
- 48) J.L. Wilson, M. Jenkinson, I. de Araujo, M.L. Kringelbach, E.T. Rolls and P. Jezzard, "Fast, Fully Automated Global and Local Magnetic Field Optimization for fMRI of the Human Brain", *NeuroImage*, **17**, 967-976 (2002)
- 49) A. Cifelli, M. Arridge, P. Jezzard, M.M. Esiri, J. Palace and P.M. Matthews, "Thalamic Neurodegeneration in Multiple Sclerosis", *Annals of Neurology*, **52**, 650-653 (2002)
- 50) M. Weiger, K.P. Pruessmann, R. Osterbauer, P. Boernert, P. Boesiger and P. Jezzard, "Sensitivity Encoded Single-Shot Spiral Imaging for Reduced Susceptibility Artifacts in BOLD fMRI", *Magnetic Resonance in Medicine*, **48**, 860-866 (2002)
- 51) J.L. Wilson, M. Jenkinson and P. Jezzard, "Optimisation of Static Field Homogeneity in Human Brain Using Diamagnetic Passive Shims", *Magnetic Resonance in Medicine*, **48**, 906-914 (2002)
- 52) M. Alecci, C.M. Collins, J. Wilson, W. Liu, M.B. Smith and P. Jezzard, "Theoretical and Experimental Evaluation of Detached Endcaps for 3 Tesla Birdcage Coils", *Magnetic Resonance in Medicine*, **49**, 363-370, (2003)
- 53) D.A. Hall, M.S. Gonçalves, S. Smith, P. Jezzard, M.P. Haggard and J. Kornak, "A Method for Determining Venous Contribution to BOLD Contrast Functional Activation", *Magnetic Resonance Imaging*, **20**, 695-706, (2003)
- 54) N.P. Davies and P. Jezzard, "Selective Arterial Spin Labelling (SASL): Perfusion Territory Mapping of Selected Feeding Arteries Tagged Using Low-Dimensional Radio-Frequency Pulses", *Magnetic Resonance in Medicine*, **49**, 1133-42, (2003)
- 55) M. Wylezinska, A. Cifelli, P. Jezzard, J. Palace, M. Alecci and P.M. Matthews, "Thalamic Neurodegeneration in Relapsing-Remitting Multiple Sclerosis", *Neurology*, **60**, 1949-1954 (2003)
- 56) J.L. Wilson, M. Jenkinson and P. Jezzard, "Protocol to Determine the Optimal Intra-Oral Passive Shim for Minimization of Susceptibility Artifact in Human Inferior Frontal Cortex", *NeuroImage*, **19**, 1802-1811 (2003)
- 57) J.L. Wilson and P. Jezzard, "Utilisation of an Intra-oral Diamagnetic Passive Shim in Functional MRI of the Inferior Frontal Cortex", *Magnetic Resonance in Medicine*, **50**, 1089-94 (2003)
- 58) J.T. Devlin, J. Raley, E. Tunbridge, K. Lanary, A. Floyer-Lea, C. Narain, I. Cohen, T. Behrens, P. Jezzard, P.M. Matthews, D.R. Moore, "Functional Asymmetry for Auditory Processing in Human Primary Auditory

Cortex", *Journal of Neuroscience*, **23**, 11516-22 (2003)

59) P.M. Matthews and P. Jezzard, "Functional Magnetic Resonance Imaging", *Journal of Neurology, Neurosurgery and Psychiatry*, **75**, 6-12 (2004)

60) Z. Bhagwagar, M. Wylezinska, M. Taylor, P. Jezzard, P.M. Matthews and P.J. Cowen, "Increased Brain GABA Concentrations Following Acute Administration of a Selective Serotonin Reuptake Inhibitor" *American Journal of Psychiatry*, **161**, 368-70 (2004)

61) R.D. Rogers, N. Ramnani, C. Mackay, J.L. Wilson, P. Jezzard, C.S. Carter and S.M. Smith, "Distinct Portions of Anterior Cingulate Cortex and Medial Prefrontal Cortex are Activated by Reward Processing in Separable Phases of Decision-Making Cognition" *Biological Psychiatry*, **55**, 594-602 (2004)

62) B.A. Völlm, I.E. de Araujo, P.J. Cowen, E.T. Rolls, M.L. Kringelbach, K.A. Smith, P. Jezzard, R.J. Heal and P.M. Matthews, "Metamphetamine Activates Reward Circuitry in Drug Naïve Human Subjects" *Neuropsychopharmacology*, **29**, 1715-22 (2004)

63) C.M. Capek, D. Bavelier, D. Corina, A.J. Newman, P. Jezzard and H.J. Neville, "The Cortical Organization of Audio-Visual Sentence Comprehension: An fMRI Study at 4 Tesla", *Cognitive Brain Research*, **20**, 111-9 (2004)

64) M. Jenkinson, J.L. Wilson and P. Jezzard, "Perturbation Method for Magnetic Field Calculations of Non-Conductive Objects" *Magnetic Resonance in Medicine*, **52**, 471-7 (2004)

65) N.P. Davies and P. Jezzard, "Calibration of Gradient Propagation Delays for Accurate Two Dimensional Radiofrequency Pulses", *Magnetic Resonance in Medicine*, **53**, 231-6 (2004)

66) H. Bridge, S. Clare, M. Jenkinson, P. Jezzard, A.J. Parker and P.M. Matthews, "Independent Anatomical and Functional Measures of the V1/V2 Boundary in Human Visual Cortex", *Journal of Vision*, **5**, 93-102 (2005)

67) R.G. Nunes, P. Jezzard, T.E.J. Behrens and S. Clare, "A Self Navigated Cartesian-Based Sequence for High Resolution Diffusion-Weighted Imaging", *Magnetic Resonance in Medicine*, **53**, 1474-1478 (2005)

68) P. Figueiredo, S. Clare and P. Jezzard, "Quantitative Perfusion Measurements using Pulsed Arterial Spin Labelling: Effects of Large ROI Analysis", *Journal of Magnetic Resonance Imaging*, **21**, 676-682 (2005)

69) G.D. Iannetti, R.K. Niazy, R.G. Wise, P. Jezzard, J.C.W. Brooks, L. Zambreanu, W. Vennart, P.M. Matthews and I. Tracey. "Simultaneous Recording of Laser-Evoked Brain Potentials and Continuous High-Field Functional Magnetic Resonance Imaging in Humans", *NeuroImage*, **28**, 708-719 (2005)

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71) R.A. Osterbauer, J.L. Wilson, G.A. Calvert and P. Jezzard, "Physical and Physiological Consequences of Passive Intra-Oral Shimming", *NeuroImage*, **29**, 245-53 (2006)

72) K.L. Miller, S.M. Smith, P. Jezzard and J.M. Pauly, "High-Resolution FMRI at 1.5 Tesla Using Balanced SSFP", *Magnetic Resonance in Medicine*, **55**, 161-170 (2006)

73) S. Clare, C.J. Evans and P. Jezzard, "Requirements for Room Temperature Shimming of the Human Brain", *Magnetic Resonance in Medicine*, **55**, 210-214 (2006)

74) P. Jezzard and R.B. Buxton, "The Clinical Potential of Functional Magnetic Resonance Imaging", *Journal of Magnetic Resonance Imaging*, **23**, 787-793 (2006)

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76) D.P. Bulte, P.A. Chiarelli, R.G. Wise and P. Jezzard "Cerebral Perfusion Response to Hyperoxia", *Journal of Cerebral Blood Flow and Metabolism*, **27**, 69-75 (2007)

77) P.A. Chiarelli, D.P. Bulte, S.K. Piechnik and P. Jezzard, "Sources of Systematic Bias in Hypercapnia-Calibrated Functional MRI Estimation of Oxygen Metabolism", *NeuroImage*, **34**, 35-43 (2007)

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- "Reduction in Occipital Cortex Gamma-Aminobutyric Acid Concentrations in Medication-Free Recovered Unipolar Depressed and Bipolar Subjects", *Biological Psychiatry*, **61**, 806-812 (2007)
- 79) P.A. Chiarelli, D.P. Bulte, D. Gallichan, S.K. Piechnik, R. Wise and P. Jezzard, "Flow-Metabolism Coupling in Human Visual, Motor and Supplementary Motor Areas Assessed by Magnetic Resonance Imaging", *Magnetic Resonance in Medicine*, **57**, 538-547 (2007)
- 80) R.G. Wise, K.T. Pattinson, D.P. Bulte, P.A. Chiarelli, S.D. Mayhew, G.M. Balanos, D.F. O'Connor, T.R. Pragnell, P.A. Robbins, I. Tracey and P. Jezzard, "Dynamic Forcing of End-Tidal Carbon Dioxide and Oxygen Applied to Functional Magnetic Resonance Imaging", *Journal of Cerebral Blood Flow and Metabolism*, **27**, 1521-1532 (2007)
- 81) P.A. Chiarelli, D.P. Bulte, R. Wise, D. Gallichan and P. Jezzard, "A Calibration Method for Quantitative BOLD fMRI Based on Hyperoxia", *NeuroImage*, **37**, 808-820 (2007)
- 82) K.L. Miller, S.M. Smith, P. Jezzard, G.C. Wiggins and C.J. Wiggins, "Signal and Noise Characteristics of SSFP fMRI: A Comparison with GRE at Multiple Field Strengths", *NeuroImage*, **37**, 1227-1236 (2007)
- 83) D. Bulte, P. Chiarelli, R. Wise and P. Jezzard, "Measurement of Cerebral Blood Volume in Humans Using Hyperoxic MRI Contrast", *Journal of Magnetic Resonance Imaging*, **26**, 894-899 (2007)
- 84) K.L. Miller, D.P. Bulte, H. Devlin, M.D. Robson, R.G. Wise, M.W. Woolrich, P. Jezzard and T.E.J. Behrens, "Evidence for a Vascular Contribution to Diffusion fMRI at High b-Value", *Proceedings of the National Academy of Sciences USA*, **104**, 20967-20972 (2007)
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- 88) J. Xie, D. Gallichan, R.N. Gunn and P. Jezzard. "Optimal Design of Pulsed Arterial Spin Labelling MRI Experiments", *Magnetic Resonance in Medicine*, **59**, 826-834 (2008)
- 89) M. Taylor, S.E. Murphy, S. Selvaraj, M. Wylezinska, P. Jezzard, P.J. Cowen and J. Evans. "Differential Effects of Citalopram and Desipramine on Cortical Glx Measured with Proton MR Spectroscopy", *Journal of Psychopharmacology*, **22**, 473-6 (2008)
- 90) D. Gallichan and P. Jezzard, "Modelling the Effects of Dispersion and Pulsatility of Blood in Pulsed Arterial Spin Labeling", *Magnetic Resonance in Medicine*, **60**, 53-63 (2008)
- 91) K.L. Miller and P. Jezzard, "Modeling SSFP Functional MRI Contrast in the Brain", *Magnetic Resonance in Medicine*, **60**, 661-673 (2008)
- 92) B.J. MacIntosh, K.T.S. Pattinson, D. Gallichan, I. Ahmad, K.L. Miller, D.A. Feinberg, R.G. Wise and P. Jezzard, "Measuring the Effects of Remifentanyl on Cerebral Blood Flow and Arterial Arrival Time Using 3D GRASE MRI with Pulsed Arterial Spin Labeling", *Journal of Cerebral Blood Flow and Metabolism*, **28**, 1514-1522 (2008)
- 93) S.K. Piechnik, P.E. Summers, P. Jezzard and J.V. Byrne, "Magnetic Resonance Measurement of Blood and CSF Flow Rates with Phase Contrast - Normal Values, Repeatability and CO₂ Reactivity", *Acta Neurochirurgica Supplements*, **102**, 263-270 (2009)
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Y.K. Tee, G. Harston, N. Blockley, T. Okell, J. Levman, M. Cellerini, F. Sheerin, P. Jezzard, J. Kennedy, S. Payne, and M. Chappell. Generating Quantitative pH Maps in Hyper-Acute Stroke Patients Using Amide Proton Transfer (APT) Imaging. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 3162 (2014).

R. Frost, A. Hess, N. Blockley, Y.K. Tee, M. Chappell, D. Tisdall, A. van der Kouwe and P. Jezzard. Prospective Motion Correction with EPI Volume Navigators for Chemical Exchange Saturation Transfer (CEST) Imaging. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 3293 (2014).

Y.K. Tee, G. Harston, N. Blockley, T. Okell, J. Levman, M. Cellerini, F. Sheerin, P. Jezzard, J. Kennedy, S. Payne and M. Chappell. Assessing Different Amide Proton Transfer (APT) Quantification Methods in Hyper-Acute Stroke Patients. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 3307 (2014).

L. Li, O. Viessmann, T. Okell, F. Galassi and P. Jezzard. Imaging with Full Static Tissue Suppression for 3D Volume Rendered (VR) Intracranial Angiography: Application of DANTE-Prepared FLASH (3D-DASH) to Magnetic Resonance Angiography. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 3877 (2014).

- T. Okell, M. Chappell, M. Kelly and P. Jezzard. Further Evidence for Arterial Spin Labeling Measurement of White Matter Perfusion Using a Multi-Delay Vessel-Encoded Approach. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 4559 (2014).
- U. Emir, M. Julià-Sapé, P. Jezzard, D. Hutter, K.O. Bushara and G. Oz. An Untargeted Metabolomics Approach to Ultra High Field MRS in Spinocerebellar Ataxia. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 4916 (2014).
- K. Papoutsis, L. Li, J. Near, S. Payne, A.D. Edwards and P. Jezzard. Construction of a 2-Channel Transmit/Receive Neck Array for Carotid Artery Vessel Wall Imaging at 7 Tesla. Proceedings of the International Society for Magnetic Resonance in Medicine, Milan, **22**, 4926 (2014).
- Y.K. Tee, G.W.J. Harston, N. Blockley, R. Frost, T.W. Okell, S. Thandeswaren, F. Sheerin, P. Jezzard, J. Kennedy and S.J. Payne. Can Nuclear Overhauser Enhancement Mediated Chemical Exchange Saturation Transfer (NOE-CEST) Offer a New Insight in Acute Stroke Diagnosis? Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 17 (2015)
- L. Biasioli, J.T. Chai, L. Li, A. Handa, P. Jezzard, R.P. Choudhury and M.D. Robson. In-Vivo Lipid Quantification in Carotid Plaques Using Multi-Slice T2 Mapping: Histological Validation. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 176 (2015)
- A. Berrington, A. Gouws, S. Clare, P. Jezzard and U. Emir. Unravelling the Neurochemical Mechanism of Positive and Negative BOLD Responses: A Combined fMRI-fMRS Study. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 211 (2015)
- E. Berry, P. Jezzard and T.W. Okell. An Off-Resonance Correction Method for Vessel-Encoded Pseudo-Continuous Arterial Spin Labeling Using the Optimized Encoding Scheme. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 272 (2015)
- F. Padormo, A.T. Hess, P. Aljabar, P. Jezzard, M.D. Robson, J.V. Hajnal and P.J. Koopmans. Large Dynamic Range Relative B1+ Mapping. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 490 (2015)
- U. Emir, N. Singh, A. Sharpley, C. Masaki, S. Vasudevan, P. Jezzard, P. Cowen and G. Churchill. The Impact of Ebselen Administration on Brain Myo-Inositol Concentration. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 736 (2015)
- P.J. Koopmans, R. Frost, D.A. Porter, W. Wu, P. Jezzard, K.L. Miller and M. Barth. Diffusion-Weighted Readout-Segmented EPI Using PINS Simultaneous Multislice Imaging. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 959 (2015)
- H. Jeong, K. Papoutsis, P. Jezzard and A.T. Hess. Faster B1 Field and SAR Estimation in Parallel Transmit Arrays without Tuning Using Voltage Sources. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 1873 (2015)
- C. Lemke, A.T. Hess, J. Near, S. Clare, P. Jezzard and U. Emir. Long Echo Time In-Vivo Spectroscopy Without J-Modulation. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 1947 (2015)
- U. Emir, S. Larkin, N. de Pennington, N. Voets, P. Plaha, R. Stacey, J. McCullagh, S. Clare, P. Jezzard, C. Schofield, O. Ansorge and T. Cadoux-Hudson. The Improved Detection of 2-Hydroxyglutarate in Gliomas at 7 T Using High-Bandwidth Adiabatic Refocusing Pulses. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 2236 (2015)
- O. Viessmann, L. Li and P. Jezzard. Feasibility and Signal Analysis of DANTE-TSE with Variable Flip Angles for Intracranial Vessel Wall Imaging at 7 Tesla. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 2660 (2015)

- K. Papoutsis, L. Li, S.J. Payne and P. Jezzard. Construction of a 4-Channel Transmit/4 Channel Receive Neck Array for Carotid Artery Vessel Wall Imaging at 7 Tesla. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 3156 (2015)
- L. Li, M. Hernandez and P. Jezzard. Fluid-Attenuated Three-Dimensional Structural Brain MRI Using Inversion-Recovery-Prepared DANTE-FLASH (IR-DASH). Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 3502 (2015)
- J. Near, R. Edden, J. Evans, R. Paquin, A.D. Harris and P. Jezzard. Spectral Registration: A Simple New Method for Frequency and Phase Drift Correction of Magnetic Resonance Spectroscopy Data. Proceedings of the International Society for Magnetic Resonance in Medicine, Toronto, **23**, 4727 (2015)
- R. Brand, N. Blockley, M. Chappell and P. Jezzard. Clinically Relevant Rapid 3D CEST Imaging with Hexagonal Spoiling Gradients, Optimised B1, and Symmetric Z-Spectrum Sampling. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 299 (2016)
- A. Berrington, N. Voets, S. Larkin, N. de Pennington, J. McCullagh, K. Al-Qahtani, R. Stacey, P. Jezzard, S. Clare, C. Schofield, O. Ansorge, T. Cadoux-Hudson, P. Plaha and U. Emir. The Benefits of in Vivo 2-Hydroxyglutarate Detection Using Semi-LASER at 7T and 3T: A Comparative Study. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 1123 (2016)
- U. Emir, S. Larkin, N. de Pennington, P. Plaha, N. Voets, J. McCullagh, R. Stacey, P. Jezzard, S. Clare, C. Schofield, T. Cadoux-Hudson and O. Ansorge. Distinguishing the Chemical Signature of Different IDH Mutations in Brain Tumor Patients at 7 Tesla. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 1366 (2016)
- J. Larkin, M. Simard, A. Khrapitchev, K. Ray, J. Meakin, P. Kinchesh, S. Smart, P. Jezzard, M. Chappell and N. Sibson. Multiphase PCASL for Imaging Blood Flow in Rodent Brains. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 1497 (2016)
- H. Jeong, P. Jezzard and A. Hess. Comparing RF Heating Simulations and Experimental Results in PTx Coils: An Evaluation of Three Simulation Methods. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 2219 (2016)
- H. Jeong, A. Hess and P. Jezzard. Modelling the RF Safety of Tattoo Pigment Ink for Subjects Undergoing 7 Tesla MRI. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 2221 (2016)
- R. Frost, A. Hess, L. Li, M. Robson, L. Biasioli and P. Jezzard. Selective Reacquisition for Motion Artifact Reduction in Quantitative T2 Mapping of Carotid Artery Vessel Wall. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 2670 (2016)
- E. Berry, P. Jezzard and T. Okell. Vessel-Selective Time-Resolved Cerebral Angiograms in Less Than One Minute. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 2690 (2016)
- O. Viessmann, P. Jezzard and H. Moeller. Improved Characterization of Low-Frequency Fluctuations in Resting-State fMRI Using GLM Correction of Baseline and Physiological Noise. Proceedings of the International Society for Magnetic Resonance in Medicine, Singapore, **24**, 3812 (2016)
- O. Viessmann and P. Jezzard. EPI-Signal Fluctuations at the Cardiac Frequency: A Tissue-Specific Quantification of Inflow, Displacement and Potential Oxygenation Effects Over the Cardiac Cycle. Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii, **25**, 248 (2017)
- H. Jeong, J. Andersson, A. Hess and P. Jezzard. A Personalised SAR Model for Subject-Specific RF Safety. Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii, **25**, 479 (2017)
- L. Li, C. Law, K. Miller and P. Jezzard. Localization of Neural Activity Using DANTE-Prepared Multi-Slice EPI (DANTE-EPI) for BOLD Detection. Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii, **25**, 584 (2017)

- J. Allen, J. Kennedy and P. Jezzard. A Comparison of Optimised Single-Shot MR Fingerprinting Pulse Sequence Designs. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 1348 (2017)
- M. Simard, J. Larkin, A. Khrapitchev, J. Meakin, T. Okell, P. Jezzard, M. Chappell and N. Sibson. Validation of Quantitative Pre-Clinical Pseudo-Continuous ASL in Rat Brain. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 1891 (2017)
- C. O'Brien, T. Okell and P. Jezzard. Spatially Localised Measurements of Oxygen Extraction Fraction Using Modified T2-Relaxation-Under-Spin-Tagging (SL-TRUST). *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 1897 (2017)
- R. Frost, L. Biasioli, L. Li, A. Hess and P. Jezzard. Estimation of Motion-Corrupted Data Using Parallel Imaging for Carotid Artery Vessel Wall Imaging. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 3117 (2017)
- K. Ray, J. Larkin, B. Sutherland, G. Harston, A. Baldwin, A. Buchan, P. Jezzard, J. Kennedy, M. Chappell and N. Sibson. Investigation Into the Origin of the APT MRI Signal in Ischemic Stroke. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 3739 (2017)
- Y. Msayib, G. Harston, Y. Tee, F. Sheerin, N. Blockley, T. Okell, P. Jezzard, S. Payne, J. Kennedy and M. Chappell. Repeatability Study of APT CEST Quantification Techniques for Identification of Ischaemic Penumbra in Stroke. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 3752 (2017)
- R. Brand, N. Blockley, M. Chappell and P. Jezzard. Dual-CEST: A Novel 3D-CEST Sequence Exploiting Simultaneous Transverse and Longitudinal CEST Signal Encoding. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 3774 (2017)
- P. Croal, K. Ray, Y. Msayib, J. Larkin, B. Sutherland, G. Harston, A. Baldwin, A. Buchan, P. Jezzard, J. Kennedy, N. Sibson and M. Chappell. Model-Based Analysis of Partial Z-Spectra for Rapid Quantification of Amide Proton Transfer MRI. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 3779 (2017)
- M. Chiew, W. Jiang, P. Larson, B. Burns, P. Jezzard, A. Thomas and U. Emir, Density Weighted Concentric Rings K-Space Trajectory for 1H MRSI with Gradient Offset Independent Adiabatic Pulses at 7T. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 4400 (2017)
- U. Emir, B. Burns, M. Chiew, P. Jezzard and A. Thomas. Metabolite-Cycling Short-Echo Time Magnetic Resonance Spectroscopic Imaging Using a Concentric Ring K-Space Trajectory. *Proceedings of the International Society for Magnetic Resonance in Medicine, Hawaii*, **25**, 5522 (2017)
- A. Steel, M. Chiew, P. Jezzard, N. Voets, P. Plaha, A. Thomas, C. Stagg and U. Emir. Metabolite cycled density-weighted concentric rings k-space trajectory (DW-CRT) enables 1H magnetic resonance spectroscopic imaging at 3 Tesla in a clinically feasible timeframe. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 1271 (2018)
- C. O'Brien, T. Okell and P. Jezzard. Regional Oxygen Extraction Fraction Measurements in the Middle Cerebral Artery Territory using Selective Localised T2-Relaxation-Under-Spin-Tagging (SL-TRUST). *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 2176 (2018)
- K. Ray, P. Jezzard and M. Chappell. Improved estimation of amide proton exchange rate and concentration using Bayesian model fitting of Z-spectra acquired with multiple saturation powers. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 2241 (2018)
- R. Brand, N. Blockley, M. Chappell and P. Jezzard. Using healthy volunteers to optimize amide proton transfer CEST sequences. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 2274 (2018)

Y. Tong, P. Jezzard, T. Okell and W. Clarke. Improving arterial spin labelling at ultra-high field using parallel transmission: a simulation study. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 3399 (2018)

H. Jeong, M. Restivo, P. Jezzard and A. Hess. Platform for Validating pTx RF Coil Simulations Using Proton Resonance Frequency Shift MR Thermometry. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 4394 (2018)

L. Li, Y. Chai, A. Derbyshire, K. Miller, P. Jezzard and P. Bandettini. Enhancement of the Negative BOLD Response with DANTE-EPI. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 4646 (2018)

P. Croal, Y. Msayib, K. Ray, B. Sutherland, G. Harston, A. Buchan, P. Jezzard, J. Kennedy, N. Sibson and M. Chappell. Clinically Feasible Model-based Analysis of Amide Proton Transfer MRI in Acute Ischaemic Stroke. *Proceedings of the International Society for Magnetic Resonance in Medicine, Paris*, **26**, 5125 (2018)

Memberships

Institute of Physics, UK (Fellow)

International Society for Magnetic Resonance in Medicine (Fellow)

- Executive Committee (2011-2015)
 - Vice-President-Elect (2011-2012)
 - Vice-President (2012-2013)
 - President (2013-2014)
 - Past-President (2014-2015)
- Scientific Program Committee (2000, 2001, 2002 meetings)
- Annual Meeting Program Committee (2012, 2013 meetings)
- Secretary, High Field Systems and Applications Study Group (2001-2003, 2009-2010)
- Global Development Committee (2002-2003)
- Awards Committee (2002-2005, 2013-2014, 2018-2019)
- Education Committee (2002-2005, 2012-2014)
- Study Group Review Committee (2002-2004)
- Board of Trustees (2002-2005, 2011-2015)
- Finance Committee (2003-2005, 2011-2015)
- Nominating Committee (2003-2005, 2014)
- Publications Committee (Chair 2003-2005)
- Ad Hoc Committee on Electronic Media (2003-2005)
- Chair, High Field Systems and Applications Study Group (2003-2004, 2011-2012)
- Chair, Search Committee for Magnetic Resonance in Medicine Editor (2004)
- Search Committee for Journal of Magnetic Resonance Imaging Editor (2012)
- Governance Committee (2005-2007)
- Program Director, Current Issues in Brain Function (2007-2008)
- Chair, Workshop and Study Group Review Committee (2011-12)

International Society for Magnetic Resonance in Medicine, British Chapter

- Committee Member (2001-2006)
- Chair, Local Organizing Committee, Oxford (2005)
- Local Organizing Committee, Oxford (2018)

Society for Human Brain Mapping

University of Oxford

- Scientific Committee, MRC IRC Centre for Cognitive Neuroscience (1999-2003)

- Chair, Imaging Management Board (2003-present)
- Governing Body, University College Oxford (2003-present)
- Divisional Planning and Resource Allocation Committee (2005-2006)
- Director, Biomedical Imaging Network (2007-present)
- Convener, annual Oxford Biomedical Imaging Festival (2007-present)
- Medical Sciences Division Research Committee (2007-2008)
- Mathematical, Physical and Life Sciences Division Review Committee (2007)
- Chair, Graduate Studies Committee, Medical Sciences Division (2009-2013)
- Graduate Panel, University of Oxford (2009-2013, 2014-2017)
- Dean of Graduates, University College Oxford (2011-2018)
- Vice-Master, University College Oxford (2018-)
- Chair, Graduate Admissions Committee, University of Oxford (2014-2017)
- Education Committee, University of Oxford (2014-2017)

External Advisory Committees

- MRI Management Board, MS Society (2004-2017)
- Translational Clinical Advisory Group, UK Stroke Research Network (2005-2010)
- Neurosciences and Cancer Panel, Science Foundation Ireland (2007-2008)
- Max Planck Institute for Biological Cybernetics Scientific Advisory Board (2011-2018)
- Institute of Biophysics and Biomedical Engineering, University of Lisbon (2011-)
- Kings College London MRes Course External Examiner (2011-2013, 2014-2017)
- Scientific Advisory Board member of the Helmholtz Association Imaging and Curing Environmental Metabolic Diseases (ICEMED) Alliance (2013-2017)
- Search Committee for a Max Planck Director in Neurophysics, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig (2014-2015)
- Advisory Group, EU Joint Programming Initiative (JPI) on Neurodegenerative Diseases (JPND) (2014)
- Peer Review Panel, Dept of Biomedical Sciences, University of Antwerp, Belgium (2014)
- External Scientific Review Committee, Key Technologies Programme, Juelich Forschungszentrum, Helmholtz Association, Germany (2017)

Reviewing Activities

Journal Editorial Activities

Journal of Magnetic Resonance (Editorial Board 2003-2010)

Human Brain Mapping (Editorial Board 2004-, Associate Editor 2004-2010)

Magnetic Resonance in Medicine (Editorial Board 2005-, Deputy Editor 2010-)

Journal of Magnetic Resonance Imaging (Guest Editor, Special Issue on "Clinical Potential of Brain Mapping Using MRI", June 2006)

Journal of Magnetic Resonance Imaging (Editorial Board 2007-2013, Deputy Editor 2009-2013)

NMR in Biomedicine (Editorial Board 2016-, Editor for Reviews and Special Issues 2016-)

Journal Reviewing Activities

Brain (occasional)

Human Brain Mapping (occasional)

IEEE Transactions on Medical Imaging (occasional)

Journal of Magnetic Resonance (occasional)
Journal of Magnetic Resonance Imaging (occasional)
Journal of Cerebral Blood Flow and Metabolism (regular)
Magnetic Resonance Imaging (occasional)
Magnetic Resonance in Medicine (regular)
NeuroImage (regular)
NMR in Biomedicine (regular)
Physics in Medicine and Biology (occasional)
Proceedings of the National Academy of Sciences USA (occasional)
Radiology (occasional)
Science (occasional)

Conference Reviewing Activities

Human Brain Mapping
International Society for Magnetic Resonance in Medicine

Grant Reviewing Activities

Medical Research Council, UK
Engineering and Physical Sciences Research Council, UK
MS Society, UK
National Science Foundation, USA
National Institutes of Health, USA (NICHD, NIAID)
Science Foundation Ireland
Wellcome Trust, UK
Swiss National Science Foundation, Switzerland
Helmholtz Association, Germany
Stroke Association, UK

Invited Talks

Institute of Neurology, London, UK, August 1992
Laboratory of Medicinal Chemistry, University of Cambridge, UK, August 1992
Research Imaging Center, University of Texas, San Antonio, TX, February 1993
Royal Post Graduate School of Medicine, London, UK, February 1993

Experimental Therapeutics Laboratory, NIMH, National Institutes of Health, Bethesda, MD, July 1993

Dept. of Radiology, University of California, Los Angeles, CA, July 1993

PET Users Group Meeting, National Institutes of Health, Bethesda, MD, October 1993

Magnetic Resonance Centre, University of Nottingham, UK, December 1993

Department of Medical Biophysics and Department of Psychiatry, University of Manchester, UK, December 1993

Clinical Grand Rounds, National Institutes of Health, Bethesda, MD, January 1994

Workshop on Local Gradient Coils, Medical College of Wisconsin, WI, June 1994

NICHHD Workshop on Embryonic Imaging, Bethesda, MD, 16th-17th June 1994

Department of Radiology, University of Utah, Salt Lake City, UT, July 1994

National Institutes of Health Research Festival, Bethesda, MD, September 1994

Department of Psychology, University of New Brunswick, Canada, October 1994

Department of Physics, University of New Brunswick, Canada, October 1994

American Association for the Advancement of Science Annual Meeting, Atlanta, GA, February 1995

Department of Neurosurgery and Neuroradiology Grand Rounds, Wake Forest University, NC, June 1995

Department of Radiology, University of Zürich, Switzerland, September 1995

Department of Electrical Engineering, University of Illinois, Urbana-Champaign, IL, October 1995

Department of Biophysics, Medical College of Wisconsin, Milwaukee, WI, November 1995

Department of Radiology, University of Indiana, IN, February 1996

Georgetown University Medical Center, Washington, DC, March 1996

Bucknell University, Merck Lecture Series, Lewisburg, PA, April 1996

Department of Radiology, University Hospital of Tenerife, Spain, May 1996

Invited speaker at the Society for Magnetic Resonance Workshop on MR Engineering, State College, PA, 20th-21st May 1996

Department of Neurology, University of Oxford, UK, August 1996

Invited plenary speaker at the 10th International Symposium on Cerebral Hemodynamics/1st Meeting of the European Society of Neurosonology and Cerebral Hemodynamics, August 29th-September 1st, 1996, Munich Germany

Department of Radiology, University of Zürich, Switzerland, September 1996

Symposium on Functional MRI and Brain Disorders, satellite meeting of the 26th Society for Neuroscience Meeting, Washington, DC, November 1996

Invited speaker at 1998 Medieval Symposium on "Early Clinical CNS Development - The Role of Neuroimaging", Manchester, UK, June 1998

National Society for Epilepsy Chalfont Centre, Institute of Neurology, UK, June 1998

Invited speaker, 4th Annual National Conference of the Institute of Physics and Engineering in Medicine, Brighton, UK, 15th-17th September 1998

Invited speaker, Irish Magnetic Resonance Imaging Users' Meeting, Belfast, UK, 14th November 1998

Invited speaker, Human Brain Mapping and Modeling Workshop (BrainMap 98), San Antonio, TX, 6th-7th

December 1998

UCL Centre for Functional Neuroimaging, Functional Imaging Laboratory, London, UK, January 1999

Invited speaker, Institute of Physics and Engineering in Medicine (IPEM) MR Safety Meeting, London, UK, January 28th 1999

Educational Programme speaker, Human Brain Mapping Conference, Düsseldorf, Germany, June 1999

Tutorial speaker, Medical Image Computing and Computer-Assisted Intervention (MICAI) Conference, Cambridge, UK, September 1999

Department of Neurology, University of Verona, Italy, October 1999

Department of Physics, University of Surrey, UK, March 2000

Faculty speaker, "Clinical Applications of fMRI", 8th International Meeting of the ISMRM, Denver, USA, April 2000

Department of Medical Physics, Royal Marsden Hospital, London, UK, May 2000

Faculty speaker, "Physiology and Physics of fMRI", The fMRI Experience, Kings College, London, UK, May 2000

Invited speaker, Wolfson Brain Imaging Centre, University of Cambridge, UK, May 2000

Invited speaker, Gordon Conference on "In Vivo Magnetic Resonance", Proctor Academy, New Hampshire, USA, August 2000

UCL Centre for Functional Neuroimaging, Functional Imaging Laboratory, London, UK, October 2000

Max Planck Institute for Cognitive Neuroscience, Leipzig, Germany, December 2000

Invited speaker, Workshop on Optimization of Functional Magnetic Resonance Imaging Experiments, Helsinki, Finland, March 2001

Education Programme speaker, Human Brain Mapping Meeting, Brighton, UK, June 2001

Invited plenary speaker, "Quantitative fMRI", ISMRM British Chapter, Cambridge, UK, September 2001

Dept of Physics Colloquia Series, Oxford, UK, November, 2001

Invited speaker, WBIC fMRI Training Course, Cambridge, UK, February, 2002

ISMRM Educational Session speaker, Hawaii Meeting, USA, May, 2002

Invited speaker, "Quality Assurance in fMRI Experiments", British Chapter ISMRM Meeting, Sheffield, UK, September, 2002

Robert Steiner MRI Unit, Hammersmith Hospital, London, UK, November 2002

Faculty speaker, "Physiology and Physics of fMRI", The fMRI Experience, Kings College, London, UK, March 2003

ISMRM Educational Session speaker, Toronto Meeting, Canada, May, 2003

Invited speaker, Magnetic Resonance Techniques in Multiple Sclerosis, 7th Advanced Course, Milan, Italy, May, 2003

Invited speaker, "The Clinical Use of 3T Scanners", British Institute of Radiology, London, July, 2003

Invited speaker, British Institute of Radiology, London, January, 2004

ISMRM Educational Session speaker, Kyoto Meeting, Japan, May, 2004

ISMRM Physics for Clinicians invited speaker, Kyoto Meeting, Japan, May, 2004

Education Programme speaker, Human Brain Mapping Meeting, Budapest, Hungary, June 2004

Invited plenary speaker, "Perfusion Imaging", British Chapter ISMRM Meeting, Edinburgh, UK, September, 2004

Mansfield College Science Society, Oxford, UK, February, 2006

Birmingham University Imaging Centre, Birmingham, UK, March, 2006

ISMRM Educational Session speaker, Seattle Meeting, USA, May, 2006

ISMRM Morning Categorical invited speaker, Seattle Meeting, USA, May, 2006

Invited speaker, Oxford Medical Alumni Meeting, Oxford, Sept, 2006

OHRT Medical Physics CPD Speaker Series, Oxford, January, 2007

Invited speaker, Turkish Radiological Society Meeting, Istanbul, February, 2007

University College Medical Alumni Dinner, Oxford, March, 2007

Clinical Imaging Centre, GlaxoSmithKline, November 2007

Invited Speaker, 11th Advanced Course on Magnetic Resonance Techniques in Multiple Sclerosis, Milan, Italy, December, 2007

Workshop on "Neuroimaging in the Pharmaceutical Industry", London, January, 2008

Invited Speaker, 4th Annual ARSEP Meeting on MS MRI: Imaging Function in Multiple Sclerosis, Paris, France, February, 2009

Invited Speaker, European Neurological Society, Milan, Italy, June 2009

Invited Speaker, Vice Chancellor's Seminar Series on Intergrative Quantitative Biosciences, University of Oxford, June 2009

Invited Speaker, ESRMRM Course on Functional MRI, Tuebingen, Germany, September 2009

Invited Speaker, Max Planck Institute for Cognitive Neuroscience, December 2009

ISMRM Clinical Case-Based Teaching Course, Stockholm, May 2010

Invited Morning Symposium Speaker, Human Brain Mapping Meeting, Barcelona, June 2010

Invited Speaker, Maastricht University, November 2010

Invited Speaker, Foothills Hospital, University of Calgary, Canada, February 2011

Invited Speaker, NMR Center, National Institutes of Health, Bethesda, USA, March 2011

Invited Speaker, ISMRM German Chapter Doctoral Training Programme, Juelich, Germany, April 2011

Invited Speaker, Neurosurgery Grand Rounds, St George's Hospital, London, May 2011

Invited Speaker, IXth International School on Magnetic Resonance and Brain Function, Erice, Italy, May 2011

Invited Speaker, Bristol Magnetic Resonance Summer School, Bristol, July 2011

Invited Speaker, Wellcome Trust Symposium on Next Generation Brain Imaging Technologies, London, October 2011

Invited Speaker, 3rd Annual Scientific Symposium on "Ultrahigh Field Magnetic Resonance: Clinical Needs, Research Promises and Technical Solutions", Berlin, Germany, June 2012

Invited Speaker, British Chapter ISMRM Meeting, Cambridge, September 2012

Invited Speaker, ASNR-ISMRM Co-Sponsored Workshop on "Advanced Brain Imaging: Beyond State of the Art", McLean, Virginia, USA, September 2012

Invited Speaker, Instituto Superior Técnico, Lisbon, Portugal, October 2012

Invited Educational Speaker, ESMRMB Annual Meeting, Lisbon, Portugal, October 2012

Invited Speaker, *Dies Natalis* Symposium, Maastricht University, Maastricht, The Netherlands, January 2014

Invited Speaker, “Enquire Within” Festschrift, Max Planck Institute for Human Cognition and Brain Sciences, Leipzig, Germany, February 2014

Invited Speaker, Institute of Physics and Engineering in Medicine (IPEM) MR-SIG Symposium on Advanced Neuro MRI Techniques, Birmingham, UK, March 2014

Invited Speaker, 25th Anniversary Symposium of the Laboratory of Cardiac Energetics, National Institutes of Health, Bethesda, Maryland, USA, May 2014

Invited Speaker, Annual MR Meeting of the Chinese Radiological Society, Changsha, China and Beijing, China, May 2014 ((part of the ISMRM Outreach Program)

Invited Speaker, ISMRM-Tsinghua Joint Symposium on Neuroimaging: Emerging Technologies and Novel Applications, Tsinghua University, Beijing, China, June 2014 (part of the ISMRM Outreach Program)

Invited Speaker, Fachgruppe MR, German Chemical Society, Berlin, September 2014

Invited Speaker, St Thomas’ Hospital, KCL, London, October 2014

Invited Speaker, Glasgow University, Glasgow, April 2015

Invited Educational Speaker, ISMRM Annual Meeting, Toronto, Canada, June 2015

Invited Keynote Speaker, British Chapter ISMRM Meeting, London, UK, September 2015

Invited Speaker, European Course in Minimally Invasive Neurological Therapy (ECMINT), Oxford, UK, December 2015

Invited Educational Speaker, ISMRM Annual Meeting, Singapore, May 2016

Invited Speaker, Inaugural Opening of the CRMBM 7 Tesla Facility, Marseille, France, September 2016

Physics Lecture Series, Cherwell School, Oxford, UK, October 2016

Invited Speaker, European Course in Minimally Invasive Neurological Therapy (ECMINT), Oxford, UK, December 2017

Organizer and Speaker, ISMRM Workshop on Advanced Neuro MR: Best Practices for Technical Implementation, Seoul, Korea, March 2018

Plenary Speaker, Korean Society of Magnetic Resonance in Medicine, Seoul, Korea, March 2018

Annual Distinguished Lecturer, Dunhill Medical Trust Symposium, London, April 2018

Plenary Speaker, International Society for Magnetic Resonance in Medicine, Paris, France, June 2018

Invited Speaker, Brain MRI Symposium Series, University of Cambridge, November 2018

Invited Speaker, Conference on Magnetic Resonance in Medicine and 25th National Magnetic Resonance Society Meeting, New Delhi, India, February 2019

Invited Education Speaker, European Congress of Radiology, Vienna, Austria, 27th February – 3rd March, 2019

Teaching

FMRIB Centre

Supervisor to DPhil students (see separate list of students)

Supervision of MPhys student projects (see separate list of students)

Supervision of overseas internship students (see separate list of students)

Various lectures provided annually as part of the FMRIB Centre Graduate Training Programme

University of Oxford

Provided annual imaging lectures for Life Sciences Interface Doctoral Training Programme (2002-2007)

Provided annual research ethics module for Centre for Doctoral Training in Biomedical Imaging (2015-2019)

College Supervisor to various students, Wolfson College 2000-2003; University College 2003-Present.

Vivas Performed

Oxford Transfer Vivas:

- Ron Heal (2003)
- Teddy Tjandra (2004)
- Nurunisa Neyzi (2006)
- Sarah Carrington (2006)
- Kyle Pattinson (2007)
- Marie Schroeder (2007)
- Matthew Taylor (2007)
- Way Cherng Chen (2011)
- Michael Germuska (2014)
- Kevin Rey (2015)

Oxford DPhil Vivas:

- Carsten Liess (1999)
- Stuart Grieve (2000)
- Matthew Taylor (2009)
- Flora Kennedy McConnell (2017)

External PhD Vivas:

- Joni Oja (University of Kupio, Finland, 1999)
- Carsten Liess (University of Oxford, 1999)
- Stuart Grieve (University of Oxford, 2000)
- Marc Miquel (University of Cambridge, 2000)

- Andreas Bartels (UCL, 2001)
- Damian Tyler (University of Nottingham, 2002)
- Laura Parkes (UCL, 2002)
- Stefan Skare (Karolinska Institute, Sweden, 2002)
- Donald Tournier (UCL, 2003)
- Anastasios Anastasiou (University of Cambridge, 2003)
- Kuan Jin Lee (University of Sheffield, 2003)
- Aneurin James Kennerley (University of Sheffield, 2006)
- Pasi Tuunanen (University of Kupio, Finland, 2006)
- Jonathan Alan Goodwin (University of Liverpool, 2009)
- Sam Wharton (University of Nottingham, 2011)
- Richard Dury (University of Nottingham, 2017)
- Keval Patel (University of Cambridge, 2018)

Outside Teaching

Lead editor on OUP textbook on functional MRI ("Functional MRI: An Introduction to Methods", Edited by P. Jezzard, P.M. Matthews and S.M. Smith, Oxford University Press, Oxford (2001))

Member of Education Committee of International Society for Magnetic Resonance in Medicine (2002-2005)

Organised various teaching sessions for ISMRM, including:

- Morning Categorical Course, "fMRI in Neuropsychiatric Disease and Treatment: Special Issues in fMRI of the Diseased Brain", 2000 ISMRM Meeting, Denver, USA
- Morning Categorical Course, "fMRI: What Can We measure?", 2001 ISMRM Meeting, Glasgow, Scotland
- Weekend Educational Course, "Brain Function and fMRI", 2003 ISMRM Meeting, Toronto, Canada
- Weekend Educational Course, "Brain Function and fMRI", 2004 ISMRM Meeting, Kyoto, Japan
- Weekend Educational Course, "Current Debates and Recent Advances in Functional MRI", 2005 ISMRM Meeting, Miami Beach, USA

Local and Lead Organizer, ESMRMB Lectures on Magnetic Resonance course on "Current Concepts in Perfusion and DCE MRI", Oxford, September 20th-22nd 2011

Current Students and Post Docs

PhD Students

Martyn Ezra, MRC Clinical Fellowship award, 2015-2018 (Co-supervised with Dr Kyle Pattinson)

Jack Allen, EPSRC CDT, 2014-2018 (Co-supervised with Prof. James Kennedy)

Caitlin O'Brien, EPSRC CDT, 2015-2019 (Co-Supervised with Dr Tom Okell)

Yan Tong, China-Oxford Scholarship Fund, 2016-2019 (Co-supervised with Dr Will Clarke)

Istvan Huszar, EPSRC CDT, 2016-2020 (Co-supervised with Prof. Karla Miller and Dr Martin Turner)

Sophie Schauman, EPSRC CDT, 2016-2020 (Co-supervised with Dr Tom Okell and Dr Mark Chiew)

Post Docs

Tom Okell, Funding: Dunhill Medical Trust 2011-2015, Royal Academy of Engineering 2015-2020

Nic Blockley, Funding: Stroke Association and Dunhill Medical Trust, 2011-2013, EPSRC 2013-2018

Alex Smith, Funding: Whitaker Foundation, 2016-2018

Kevin Ray, Funding: NIHR Biomedical Research Centre, 2017-2019

Former Students and Post Docs

PhD Students

Patricia Figuerdeo, Funding: Portuguese Foundation for Science and Technology (PRAXIS XX1), 1998-2003. Now Assistant Professor, Instituto Superior Tecnico, Lisbon, Portugal

James Wilson, Funding: MRC Studentship, 1999-2003. Now teacher, Exeter School, Exeter

Rita Nunes, Funding: Portuguese Foundation for Science and Technology and Foundation Calouste Gulbenkian, 2001-2005 (Co-supervised with Dr Stuart Clare). Now Assistant Professor, IBEB, University of Lisbon

Peter Chiarelli, Funding: Rhodes Trust, 2003-2006 (Co-supervised with Dr Daniel Bulte). Subsequently Harvard Medical School; now Senior Fellow, Seattle Children's Hospital, University of Washington.

Daniel Gallichan, Funding: EPSRC LSI-DTC, 2003-2007 (Co-supervised with Drs Mark Woolrich and Karla Miller). Subsequently post-doc in Freiburg and Lausanne; now Lecturer in Medical Imaging, School of Engineering, Cardiff University

Hannah Devlin, Funding: MRC Studentship, 2004-2007. Subsequently science writer at The Times; now science writer at The Guardian

Jingyi Xie, Funding: GSK, 2005-2009 (Co-supervised with Dr Roger Gunn). Now working for Siemens Healthineers, Erlangen

Molly Bright, Funding: NIH Graduate Partnership Programme, 2006-2010 (Co-supervised with Dr Jeff Duyn, NIH). Subsequently post-doc at Cardiff University; subsequently Lecturer at University of Nottingham; now Assistant Professor, Northwestern University, USA

Tom Okell, Funding: MRC Studentship and Dept of Health Training Grant, 2007-2010. Subsequently post-doc at FMRIB Centre; now Royal Academy of Engineering Career Development Fellow, University of Oxford

Hendrikus (Rob) Tijssen, Funding: MRC Studentship, GSK and private donation, 2007-2011 (Co-supervised with Dr Karla Miller). Subsequently Netherlands health service; now Staff Scientist, University of Utrecht

Robert Frost, Funding: MRC Studentship, 2008-2012 (Co-supervised with Dr Karla Miller). subsequently post doc, University of Oxford; now Instructor, Massachusetts General Hospital, Harvard University

James Meakin, Funding: CRUK, 2009-2013 (Co-supervised with Dr Thomas Brunner in Dept of Radiation Oncology and Biology). Subsequently research scientist, Philips Healthcare; now Radboud University, Netherlands

Konstantinos Papoutsis, Funding: Dept of Engineering Scholarship, 2010-2014 (Co-supervised with Dr Jamie Near and Prof. David Edwards, Dept of Engineering). Now RF engineer with MR Solutions.

Clark Lemke, Self-funded, 2011-2015 (Co-supervised with Dr Jamie Near and Dr Uzay Emir). Subsequently post-doc for the Dept of Psychiatry, University of Oxford; now Researcher and Data Scientist, Spotify, New York, USA

Matt Rowland, MRC Clinical Research Fellowship, 2011-2015 (Co-supervised with Dr Kyle Pattinson). Now Clinical Lecturer, University of Oxford.

Hannah Hare, MRC Studentship, 2012-2015 (Co-supervised with Dr Dan Bulte). Now working as a consultant for

The Technology Partnership (TTP), Cambridge.

Eleanor Berry, EPSRC Studentship, 2012-2016 (Co-supervised with Dr Tom Okell). Now working for McKinsey Geneva, Switzerland.

Adam Berrington, EPSRC LSI DTC, 2013-2016 (Co-supervised with Uzay Emir). Now a post-doc at Johns Hopkins University, Baltimore, USA

Olivia Viessmann, HiMR EU ITN, 2013-2017. Now post doc, Massachusetts General Hospital, Harvard University, USA

Hongbae Jeong, Oxford-Radcliffe-Clarendon Award, 2014-2018 (Co-supervised with Dr Aaron Hess). Now Massachusetts General Hospital, Harvard University, USA

Robert Brand, MRC-Scatcherd studentship, 2014-2018 (Co-supervised with Prof. Michael Chappell and Dr Nic Blockley). Now McKinsey Consulting, Tokyo Japan

Post Docs

Allen Song, Funding: NIH, 1995-1997 (now Professor at Duke University, North Carolina)

Stuart Clare, Funding: MRC Programme Grant, 1997-2003 (now Chief Physicist, FMRIB Centre)

Marcello Alecci, Funding: EU Biomed II, 1998-2001 (now Associate Professor, University of L'Aquila, Italy)

Marzena Wylezinska-Arridge, Funding: GSK and MRC Programme Grant, 1999-2006 (now Imperial College London)

Markus Weiger, Funding: EU Marie Curie Award, 2001 (subsequently Bruker Biospin; now ETH Zurich)

Nigel Davies, Funding: MRC Project and Programme Grant, 2000-2004 (now University Hospital Birmingham)

John Evans, Funding: MRC Programme Grant, 2004-2007 (now staff scientist, CUBRIC, University of Cardiff)

Karla Miller, Funding: GSK and EPSRC/RAE Fellowship, 2004-2006 (subsequently Wellcome Trust Career Development Fellow, FMRIB Centre; now Wellcome Trust Senior Fellow, FMRIB Centre)

Daniel Bulte, Funding: MRC Programme Grant, 2003-2008 (subsequently EPSRC Career Development Fellow, FMRIB Centre; now Associate Professor, Dept of Engineering, University of Oxford)

Stefan Piechnik, Funding MRC Programme Grant, 2005-2008 (now NIHR BRC post-doctoral fellow, Oxford)

Brad MacIntosh, Funding: Heart and Stroke Foundation of Canada, 2007-2009 (now Assistant Professor at Sunnybrook Hospital, University of Toronto)

Manus Donahue, Funding: Dunhill Medical Trust, 2008-2010 (subsequently Assistant Professor at Johns Hopkins University; now Assistant Professor at Vanderbilt University, Tennessee, USA)

Jingyi Xie, Funding: Pain Group and Stroke Association, 2009-2011 (now working for Siemens Healthcare, Erlangen, Germany)

Alex Gardener, Funding: MRC Project Grant, 2009-2013 (now working as a physics teacher)

Linqing Li, Funding: Oxford NIHR BRC, 2009-2014 (now Staff Scientist at the National Institutes of Health, USA)

Michael Kelly, Funding: Oxford NIHR BRC, 2010-2013 (now Lecturer at Leicester University)

Jamie Near, Funding: MRC, 2008-2012 (now Researcher at McGill University, Canada)

Robert Frost, Funding BRC, 2012-2016 (now Researcher at Massachusetts General Hospital, Harvard)

Uzay Emir, Funding: University of Oxford, 2013-2017 (now Assistant Professor at Purdue University, USA)

Undergraduate Students (MPhys and visiting interns)

Barnaby Watson, MPhys project student, 1999
Florence Williams, MPhys project student, 2000
Clare Hindley, MPhys project student, 2001
Karla Miller, Visiting summer student (Stanford), 2001
Katherine Fraser, MPhys project student, 2002
Alex Pocock, MPhys project student, 2004
Christopher Lumb, MPhys project student, 2005
Jamie Ballin, MPhys project student, 2006
Lizet Barry, Visiting intern student, Eindhoven University 2006
Rob Tijssen, Visiting intern student, Eindhoven University 2006
Rebecca Jeffrey, BA Project Student, 2011
Fritz Bayer, Visiting Masters intern student, Freiburg University, 2018
Thijs de Buck, Visiting Masters intern student, Leiden University, 2019