CURRICULUM VITAE

NAME: Robert Todd Constable, Ph.D.

CURRENT ADDRESS:

Yale University School of Medicine

Departments of Diagnostic Radiology and Neurosurgery

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EDUCATION:

1984 B.Sc. Physics

University of Winnipeg

Winnipeg, Manitoba, Canada

1986 M.Sc. Medical Physics

University of Manitoba

Winnipeg, Manitoba, Canada

1990 Ph.D. Medical Biophysics

University of Toronto Toronto, Ontario, Canada

2006 M.A. Honorary Master of Arts

Yale University

New Haven, CT, USA

ACADEMIC APPOINTMENTS:

1990 - 1991 Postdoctoral Fellow

Department of Diagnostic Radiology Yale University School of Medicine

1991 - 1994 Associate Research Scientist

Department of Diagnostic Radiology Yale University School of Medicine

1994 - 2000 Assistant Professor

Department of Diagnostic Radiology

Yale University School of Medicine

1998 -2000 Assistant Professor

Department of Neurosurgery

Yale University School of Medicine

2000 - 2006 Associate Professor

Department of Diagnostic Radiology Yale University School of Medicine

2000 - 2006 Associate Professor

Department of Neurosurgery

Yale University School of Medicine

2001 - Director MRI Research

Department of Diagnostic Radiology Yale University School of Medicine

2001 - co-Director

Magnetic Resonance Research Center (MRRC)

Yale University School of Medicine

2003 - 2006 Associate Professor

Department of Biomedical Engineering

Yale University

2006 - Professor (Tenure)

Department Radiology and Biomedical Imaging, and Neurosurgery

Yale University

SCHOLARSHIPS AND AWARDS:

Board of Regents General Proficiency Scholarship,

University of Winnipeg

National Science and Engineering Research Council (NSERC) Summer Research

Award, Manitoba Cancer Foundation

University of Manitoba

1984, 1985 University of Manitoba Graduate Fellowship,

University of Manitoba

1985 - 1990 Medical Research Council of Canada Studentship

University of Toronto

GRANT HISTORY (PRINCIPAL INVESTIGATOR):

1993 - 1997	Whitaker Foundation Biomedical Engineering Research Award Title: Development of advanced MRI techniques for in vivo quantitative measurements of myocardial wall motion. P.I. Constable \$243,000
1998 - 2000	American Heart Association: Connecticut Affiliate: Grant-in-Aid Title: Quantifying myocardial blood volume and oxygenation in the presence of coronary artery stenosis. P.I. Constable \$86,000
1999 - 2000	National Institutes of Health: NIH-R01 #NS38467-01 Title: Functional MRI for Neurosurgical Planning in Epilepsy. P.I. Constable \$929,948
2002 - 2008	National Institutes of Health: NIH-R01 #NS38467-04 Title: Functional MRI for Neurosurgical Planning in Epilepsy. P.I. Constable \$1,065,000
2002 - 2004	National Institutes of Health: NIH-R01 #NS40497-01 Title: Functional Heterogeneity of the Hippocampal Formation. P.I. Constable \$769,654
2001 - 2003	NIH F32 MN64290-01 Postdoctoral Fellowship of Robert Astur. Mentor. Constable. \$87,000
2002 - 2007	National Institutes of Health: NIH-BRP #EB00473-01 Title: Bioimaging and intervention in neocortical epilepsy \$7,100,000 (PI: Duncan, Partners: Constable, Rothman, Spencer)
2003 – 2004	Pfizer: Liver Fibrosis Project: \$542,255
2004 – 2006	Pfizer: Next Generation Imaging Tools: \$956,081
2005 – 2006	Pfizer: PET and ASL MRI Comparison \$517,559
2005 – 2006	Pfizer: Test/Retest fMRI \$275,690
2006 – 2007	Pfizer: Liver fibrosis in HCV patients: \$322,000
2005 – 2009	National Institutes of Health: NIH-R01 #NS47605 Title: Epileptogenic Tissue Localization using EEG-fMRI.

2006 - 2011National Institutes of Health: NIH-R01 #NS051622-01A2 Title: Towards an Improved Understanding of negative BOLD signal change PI: Constable \$1.5M 2007 – 2012 National Institutes of Health: NIH R01 #NS052344-01A2 Title: The influence of brain state on fMRI PI: Constable \$1.7M 2007 - 2012 National Institutes of Health: NIH-BRP #EB00473-01 Title: Bioimaging and intervention in neocortical epilepsy PI: Duncan, (Partners: Constable, Rothman, Spencer) \$7,100,000 2008-2009 National Institutes of Health: NIH-NCRR #S10RR24554-01 Title: Upgrade of Yale 3T Trio Imaging System PI: Constable \$500,000 2010-2014 National Institutes of Health: NIH-NIBIB R01 #EB009666-01A1 Title: Method for Measuring Functional Subunits in Human Cortex PI: Constable \$1.5M 2010-2015 National Institutes of Health: NIBIB BRP #EB012289-01 Title: Null Space Imaging: A Novel Approach to Accelerating MR Imaging PI: Constable \$3.5M 2013-2017 National Institutes of Health: NIBIB R01 #EB016978-01A1 Title: O-Space Imaging: Accelerating MRI with Z2-Gradient Encoding PI: Constable \$2.0M 2014-2015 National Institutes of Health: NIBIB \$10 OD018527-01 Title: Acquisition of a Siemens Console and Gradients for a 7T MRI/MRS System PI: Constable \$2.0M

National Institutes of Health: NINDS U01NS094358

Title: Multiscale imaging of spontaneous activity in cortex: Mechanisms,

2015-2018

PI: Constable

\$1.5M

Development and Function

PI: Constable and Crair (multi-PI)

\$5.0M

2016 – 2021 Understanding evoked and resting-state fMRI through multi scale imaging

PI: Constable, Crair, Hyder (multi-PI)

\$5.0M

NATIONAL STUDY SECTIONS:

1996 - 2001	NIH DRG SBIR MR and Optical Technology	SRO: Houston Baker
2000	NIH COBRE (RR)	SRO: John Ryan
2001	NIH RR	SRO: Tracy Orr
2001	NIH NIA	SRO: Ramesh Vemuri
2001	NIH NIDCD	SRO: Ali Azadegan
2004	NIH P40	SRO: Robert Nordstrom
2004	NIH BRP	SRO: Behrouz Shabestari
2003-2005	NIH F01	SRO: Sherry Struesse
2006	NIH SAT	SRO: Weihau Luo
2007	NIH BMIT	SRO: Lee Rosen
2007	NIH ZEB1 OSR-B	SRO: Ruixia Zhou
2008	NIH NIBIB	SRO: Ruth Grossman
2008	NIH NIBIB BMIT	SRO: Lee Rosen
2009-2012	NIH BMIT – Standing Member	SRO: Lee Rosen
2012- 2015	NIH BMIT – Chair	SRO: Lee Rosen
2014	NIH NICHD - P01 – Chair	SRO: Joanna Kubler-Kielb
2015/4	NIH – U01 – HCP - Chair	SRO: Cristina Backman
2015/9	NIH – S10 – co-Chair	SRO: Jan Li
2015/10	NIH – U01 – HCP - Chair	SRO: Cristina Backman

INTERNATIONAL STUDY SECTIONS:

2005 – 2008 Canadian Institute of Health (CIHR) Medical Physics and Imaging

ACADEMIC RESPONSIBILITIES:

2005	Yale Search Committee for Child Study Center Faculty Recruit Fall
2008	Yale Search Committee for Child Study Center Faculty Recruit Fall
2009-2011	Yale Tenure Slot Allotment Committee
2015-2017	Yale Faculty Advisory Committee

EXTERNAL PH.D. EXAMINER,

2001	Medical College of Wisconsin, Ph.D. Candidate: Vinai Roopchansingh, Title: Field compensation approaches in MRI Biophysics Research Institute Madison Wisconsin
1996	University of Toronto, Ph.D. Candidate: Jonathon Bishop, Dept. of Medical Biophysics Thesis Title: Techniques for Improved Time and Data Efficiency in Fourier-encoded Magnetic Resonance Imaging, Toronto, Ontario, Canada
2009	Claudine Gautier, Advisor: Richard Hoge, University of Montreal
2013	Kelvin Layton, University of Melbourne
2014	Mona Maneshi, Advisor: Jean Gotman, McGill University
2015	Thomas Andrew Depew, Advisor: Qing-San Xiang, Univ. of British Columbia

UNDERGRADUATE SUMMER STUDENTS:

1994	Joseph Yeh, Project Title: Phase Velocity Imaging in Cardiac MRI,
1995	Jessica Bloom Project Title: ROC Analysis of Methods in functional MRI,
1999	Johanna Zumer, Project Title: Functional MRI of the Hippocampus,
2000	Clifford Georges, Hippocampal Activation in Encoding and Retrieval,
2001	Ella Beyroya, fMRI of Language in Epilepsy,
2002	Samuel Wyche, Spatial Cueing and Exogenous Control over Covert Orienting,
2002	Nicole Hanick, fMRI Amplitude and Brain function, behavior, and Medication,
2002	Scott Degregorio, Partial volume, cortical thickness, fMRI activation amplitude,
2003	Nicole Hanick, fMRI Amplitude and Brain function, behavior, and Medication,
2004	Greg Fonzo, Configural vs. Elemental Associations: An EEG Investigation
2005	Geoffrey Schreiner: Imaging the Basilar Membrane
2005	Kendra Klang: Diffusion Tensor Imaging in Reading Disabled Children
2005	Jenelle Jindal: Subject Group Effects on fMRI of Language in Neurosurgery
2007	Kate Mullen: White matter microstructural abnormalities in preterm children
2007	Edmund Burke: Modality, Syntax and Semantics in preterm children
2008	Yuko Hara: Intrinsic Connectivity Contrast
2008	Neena Sanjit: Connectivity Behavior Correlations in Epilepsy
2008	Lin Shen: Time Varying Measures of Connectivity in Epilepsy
2010	Puja Rai: Network Measures in Epilepsy
2013	Patricia Lan, Optimization of Gradient Trajectories in Nonlinear Parallel Imaging

GRADUATE STUDENTS

Jed Meltzer, Ph.D. Student, Interdepartmental Neuroscience Program,
Amy Scouten, Ph.D. Student, Biomedical Engineering
Yeunan Wang, Ph.D. Student, Biomedical Engineering
Jason Stockman, Ph.D. Student, Biomedical Engineering

2008 - 2012	Pelin Aksit Ciris, Ph.D. Student, Biomedical Engineering
2008 - 2013	Leo Tam, Ph.D. Student, Biomedical Engineering
2009 - 2013	Dustin Scheinost, Ph.D. Student, Biomedical Engineering
2012 -	Emily Finn, Ph.D Student, Interdepartmental Neuroscience Program
2013 -	Nadine Luedicke, Ph.D Student, Biomedical Engineering
2015 -	Mehraveh Salehi, Ph.D Student, Electrical Engineering

LECTURER:

1998	Yale University, Dept. of Psychology, Course: 675b Cognitive Neuroscience, Prof. Elizabeth Phelps,
1999	Yale University, Department of Linguistics, Course: Psycholinguistics 161b, Prof. Sergei Avrutin.,
2001	Yale School of Medicine, Departments of Psychiatry and Diagnostic Radiology, Course: Metabolic Regulation,
2002	Yale School of Medicine, Departments of Psychiatry and Diagnostic Radiology, Course: Metabolic Regulation,
2007/2008	Yale School of Medicine, INP Program, Neuroimaging in Neuropsychiatry
2006-2008	Yale University, Biomedical Engineering
2009 -	Yale University, Department of Psychiatry, Brain Camp Lecturer

COURSES TAUGHT

2003-2014	BENG 421b/821b, Physics of Medical Imaging: Yale Department of BME
2000-2005	NS600 Experimental Methods in Neurosciences Course INP Program Graduate level course. Developed and taught the course.
1999	Fall Lectures Series: 9 Lectures - Technical Issues in Functional MRI, attending were PostDocs, Residents, Faculty from Diagnostic Radiology, Neuroscience, Psychiatry and Psychology, Yale University School of Medicine
1998	Yale University, Engineering and Applied Science #990a and b Special Investigations: Student: Peter Fong.
1985	Physics: Introductory Physics, Laboratory Instructor: University of Manitoba
1983	Physics: Mechanics and Wave Motion 1101-1, Laboratory Demonstrator

University of Winnipeg

SUPERVISION OF RESIDENTS OF FELLOWS RESEARCH:

Neurosurgery Resident: Alexandre Carpentier from University of Paris VI, H'opital De La Salpetriere: Project Title: Functional MR Imaging of Language in Neurosurgical Planning, Oct. 98 - Oct. 99.

POSTDOCTORAL FELLOWS:

1996 - 1998	Matthew Robson: Project Title: Imaging image distortions in MRI – Cardiac and other applications. Now Faculty at Oxford University
1999 - 2002	Huairen Zeng. Project Title: Image Distortion and the PSF in MRI, Now at Vanderbilt University
2000 - 2002	Robert Astur: Project title: The role of the hippocampus in mnemonic processes, Now Faculty at University of Connecticut, Department of Psychology.
2001 – 2002	Jess DiGiogianni: Project title: Attention and Memory, Now teaching Faculty at Magdelan College
2001 - 2007	Robin Schafer: Project title: Language, Linguistics and the impact of pathology
2001 - 2005	Vivien Rekkas: Project title: Encoding and Retrieval Processes in Memory
2002 - 2005	Michiro Negishi: Project title: fMRI/EEG Fusion for Epileptogenic Tissue Localization
2002 - 2004	Alexander Pinus: Project title: Dynamic shimming in fMRI, now in Medical School
2002 - 2007	Maolin Qiu: Project title – Cerebral blood flow measured using MRI
2003 - 2007	Jinghua Wang: Project title – Diffusion tensor imaging in the presence of brain lesions
2003 - 2009	Rajeevan Nallakkandi: Project title – Development of analysis tools for fMRI
2004 - 2008	Hyeonjin Kim: Project title – Development of noninvasive assessment of liver disease
2005 - 2011	Ilan Laufer: Project title – Mismatched Negativity: EEG and fMRI correlates relating to top-down versus bottom up processing
2006 - 2010	Jennifer Roth: Project Title – Negative BOLD and Cognitive Processing

2007 - 2009	Roberto Martuzzi: Project Title – EEG/fMRI in Multi-sensory paradigms with modified baseline brain activity
2008 - 2011	Gigi Galiana: Ultrashort TE imaging, Tenure track faculty at Yale University
2009 - 2010	Xilin Shen: Functional Subunit identification with Connectivity Parcellation
2011 - 2012	Nolwenn Caillett, Novel Receiver Coils for Accelerated MRI
2012 - 2013	Pelin Ciris, MR methods for measuring absolute CBV
2012 - 2015	Emre Kopanoglu, Nonlinear Accelerated MRI
2012 - 2016	Yuqing Wan, Electrical impedance imaging
2015 - 2016	Sangwon Oh, Nonlinear accelerated MRI
2015 - 2016	Geli Hu, Nonlinear Accelerated MRI

EXTERNAL TEACHING COURSES:

2000	International Neuropsychology Society Continuing Education Course: Contribution of fMRI to treatment planning - validity issue and development of behavioral tasks in neurosurgical planning. Denver Colorado, Feb. 9-12.
2001	Human Brain Mapping: Functional MRI in the Presence of Field Inhomogeneities, Brighton, England, June 18.
2001	Educational Symposium: <i>Technical Advances in Body Imaging</i> , Radiological Society of North America (RSNA) Chicago, Il, Dec.8, 2001.
2002	Cortical Plasticity in Humans, Research Update in Neuroscience for Neurosurgeons (RUNN) Course, Woods Hole, MA, Oct. 27-Nov3.
2002	Educational Symposium: <i>Technical Advances in Body Imaging</i> , Radiological Society of North America (RSNA), Chicago II, Dec.1.
2003	fMRI Experimental Methods, Categorical Course ISMRM Meeting, Course Organizer and Speaker, Toronto, May 12-16.
2004	ISMRM Education Weekend Course: MR Physics for Physicists, Kyoto, Japan
2005	ISMRM Education Weekend Course: MR Physics for Physicists, Maimi, Florida

BIOSTEP MENTOR:

BIOSTEP: Biomedical Summer Research Training and Enrichment Program for Minority Students

Clifford Georges, from NYU, Summer 2000.

Ella Beyroya, from Mount Holyoke, Summer 2001.

Samuel Wyche, Emory, Summer 2002.

Greg Fonzo, Summer 2004.

Ysis Tarter, Stanford, Summer 2012

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS:

American Association of Physicists in Medicine	1986 - 1998
Institute of Electrical and Electronics Engineers	1989 - 2000
International Society of Magnetic Resonance in Medicine	1988 -
Society for Neuroscience	2001 -
Cognitive Neuroscience Society	2001 - 2003

SOCIETY ACTIVITIES

Global Development Committee ISMRM	2002-04
Scientific Program Committee ISMRM	2002-05
Brain Function Study Group Secretary ISMRM	2004-05
Brain Function Study Group Chairman ISMRM	2005-06
Study Group Review Committee ISMRM	2005-08
Brain Function Study Group Chairman ISMRM	2010-11
OHBM Scientific Planning Committee	2015-2017

EDITORIAL BOARD

Magnetic Resonance in Medicine	2005 –
Brain Connectivity	2011 -

DEPUTY EDITOR

Magnetic Resonance in Medicine 2008 -

PRESIDING OFFICER:

Radiological Society of North America (RSNA)	1993,1994,1995
International Society of Magnetic Resonance (ISMRM)	1996 - 2004

INVITED TALKS

QBIN Scientific Day, Functional Connectome Fingerprinting: Linking Connectivity to Behavior, Montreal Quebec, January 2016.

New York University, Langone Medical Center, The functional connectome fingerprint: Connectivity profiles are both unique and meaningful, New York, December 2015.

30th International Epilepsy Congress, Hot Topics in Clinical Epilepsy and Research, Montreal, 2013.

Massachusetts General Hospital (MGH) Harvard, The promise and challenge of voxel based measures of intrinsic connectivity, November 2, 2011.

University of Illinois, Urbana, Ill. Nonlinear gradient encoding for faster, more efficient, parallel imaging, Sept. 22, 2011.

University of Michigan, Functional MRI Speaker Series, March 10, 2009.

Yale University, Clinical Neuroscience Grand Rounds for Neurosurgery and Neurology, March 25, 2009.

Thomas Jefferson University Hospital, Dept. of Diagnostic Radiology Grand Rounds, Nov. 19, 2008

Quinnipiac Law School, Sept. 13, 2007, The use of fMRI in Lie Detection

Yale University, Department of Anesthesiology Grand Rounds, March 16, 2005, Functional Brain Imaging and Baseline Brain Activation Levels

Pittsburgh, PA, 10th Anniversary of the Pitt MR Center, Title: Functional MRI in Neurosurgical Planning, February 2005.

Montreal Neurologic Institute, Functional MRI in Neurosurgical Planning 2004

ISMRM Categorical Course, Japan 2004

ISMRM Weekend MR Physics for Physicists, Japan, 2004

ISMRM Categorical Course, Paradigm Design in fMRI, Toronto, 2003

RSNA, *Technical Advances in Body Imaging*, Teaching Course Dec. 7, 2001 Dec. 1, 2002

Cortical Plasticity in Humans, Research Update in Neuroscience for Neurosurgeons (RUNN) Course, Oct. 27-Nov3, Woods Hole, MA, 2002

Yale University, Department of Statistics, *Data analysis in fMRI*, April 15, 2002.

University of Colorado Medical Center, Functional MRI in Neurosurgical Planning, Sept. 26, 2001.

Human Brain Mapping, Functional MRI in the Presence of Field Inhomogeneities, Brighton, England, June, 2001.

Applications of functional MRI in neurosurgical planning, Current Research in Biomedical Engineering: A special symposium sponsored by the Yale Program in Biomedical Engineering and BEACON, March 25, 2000.

Magnetic Resonance Imaging for Understanding Cortical Function. Yale University Interdepartmental Neurosciences Program: Annual Neuroscience Retreat, Woods Hole, MA, Feb. 18-20, 2000.

Contribution of fMRI to Treatment Planning: Validity Issues and Development of Behavioral Tasks in Neurosurgical Planning. International Neuropsychological Society: Continuing Education Course – February 10, 2000, Denver, Co.

International Magnetic Resonance and Epilepsy Symposium, Talk Tile: *Acquisition Techniques in Functional MRI for Surgical Planning in Epilepsy*, Birmingham, Al, Oct. 20-21, 2000.

Gordon Conference on In Vivo Magnetic Resonance, Topic: *Removing or Exploiting Susceptibility for Functional, High Speed, and Micro Imaging*, August 20-25, 2000.

Functional Magnetic Resonance Imaging and Language, Surgical Treatment of Focal Epilepsies in Adults, Association Pour La Neuro Psycho Pharmacologie, Chateau d'Isenbourg, France, June 7-9, 2000.

Functional Imaging of Language Processing for Neurosurgical Planning, University of Connecticut Health Center, Farmington, CT, February 7, 2000

Functional Imaging the Presence of Field Inhomogeneities: Revisited, University of Connecticut Health Center, Farmington, CT, March 29, 1999

Functional MR Imaging in the Presence of Field Inhomogeneities, Guy's Hospital, London, UK, June 9, 1999

REVIEWER FOR THE FOLLOWING JOURNALS:

Magnetic Resonance Imaging, Optical Society of America, Journal of Magnetic Resonance Imaging, Acoustical Society of America, IEEE Transactions on Medical Imaging, Magnetic Resonance in Medicine, Journal of Magnetic Resonance

PATENTS:

U.S. Patent # 5,001,429 Removal of Truncation Artifacts in NMR Imaging R.T. Constable, R. Mark Henkelman.

Intl Patent Parallel magnetic resonance imaging using nonlinear gradient encoding, RT Constable, J Stockman, LK Tam

Intl Patent Null Space Imaging, RT Constable, J Stockman, LK Tam

Intl Patent Single Echo MRI RT Constable, Gigi Galiana

PUBLICATIONS IN REFEREED JOURNALS:

Scopus h index = 69, cited 15,862 Google Scholar h index = 85, cited 24,045

- 1. <u>Constable</u> R.T., Dunscombe P.B., Tsoukatos A., Malaker K., Perturbation of the Temperature Distribution in Microwave Irradiated Tissue Due to the Presence of Metallic Thermometers. *Medical Physics*, 14(3), 385-388, 1987.
- 2. Dunscombe P.B., <u>Constable</u> R.T., McLellan J., Minimizing the Selfheating Artefacts Due to Microwave Irradiation of Thermocouples. *International Journal of Hyperthermia*, 4, 437-445, 1988.
- 3. <u>Constable</u> R.T., Henkelman R.M., The Application of Maximum Entropy to the Reconstruction of MR Images. *Proceedings of the 8th International Maximum Entropy Workshop.*, ed. J. Skilling, Kluwar Academic Publishers, 65-72, 1988.
- 4. <u>Constable</u> R.T., Kay I., Smith M.R., Henkelman R.M., High Quality Zoomed MR Images., *Journal of Computer Assisted Tomography.*, 13(1), 179-181, 1989.
- 5. <u>Constable</u> R.T., Henkelman R.M., Why MEM does not work in MR Imaging., *Magnetic Resonance in Medicine*, 14, 12-25, 1990.
- 6. <u>Constable</u> R.T., Henkelman R.M., Data Extrapolation for Truncation Artifact Removal., *Magnetic Resonance in Medicine*, 17, 108-118, 1991.
- 7. Smith M.R., Nichols S.T., <u>Constable</u> R.T., Henkelman R.M., A Quantitative Comparison of the TERA Modeling and DFT Magnetic Resonance Reconstruction Techniques, *Magnetic Resonance in Medicine*, 19, 1-19, 1991.
- 8. <u>Constable</u> R.T., Henkelman R.M., Contrast, Resolution and Detectability in MR Imaging. *J. Comput. Assist. Tomog.*, 15(2), 297-303, 1991.
- 9. <u>Constable</u> R.T., Smith R.C., Gore J.C., Signal to Noise and Contrast in Fast Spin Echo (FSE) Imaging and Inversion Recovery FSE, *J. Comput. Assist. Tomog.*, 16(1), 41-47, 1992.
- 10. <u>Constable</u> R.T., Gore J.C., The Loss of Small Objects in Variable TE Imaging: Implications for FSE, RARE and EPI, *Magn. Reson. in Medicine*, 28, 9-24, 1992.

- 11. Constable R.T., Anderson A.W., Zhong J., Gore J.C., Factors Influencing Contrast in Fast Spin Echo MR Imaging, *Magn. Reson. Imag.*, 10(4), 497-511, 1992.
- 12. Sze G., Kawamura Y., Negishi C., <u>Constable R.T.</u>, Merriam M., Oshio K., Jolesz F., Fast Spin Echo MR Imaging of The Cervical Spine: Influence of Echo Train Length and Echo Spacing on Image Contrast and Quality, *Amer. J. Neuro. Radiology*, 14(5), 1203-1213, 1993.
- 13. Smith R.C., Reinhold C., McCauley T.R., Lange R.C., <u>Constable</u> R.T., Kier R., McCarthy S., Mulit-Coil High Resolution Fast Spin Echo MR Imaging of the Female Pelvis, *Radiology*, 184, 671-675, 1992.
- 14. <u>Constable</u> R.T., Smith R.C., Gore J.C., Coupled Spin Fast Spin Echo MR Imaging, *J. Magn. Reson. Imag.*, 3, 547-552, 1993.
- 15. Panush D., Fulbright R., Sze G., Smith R.C., <u>Constable</u> R.T., Inversion-Recovery Fast Spin-Echo MR Imaging: Efficacy in the Evaluation of Head and Neck Lesions, *Radiology*, 187, 421-426, 1993.
- 16. <u>Constable</u> R.T., McCarthy G., Allison T., Anderson A.W., Gore J.C., Functional Brain Imaging at 1.5T Using Conventional Gradient Echo Imaging Techniques, *Magnetic Resonance Imaging*, 11(4), 451-459, 1993.
- 17. Fulbright R., Panush D., Sze G., Smith R.C., <u>Constable</u> R.T., MR of the Head and Neck: Comparison of Fast Spin Echo and Conventional Spin Echo Sequences, *Am J Neuro Radiol* 15(4), 767-773, 1993.
- 18. Hinks R.S., <u>Constable</u> R.T., Gradient Moment Nulling in Fast Spin Echo, *Magnetic Resonance in Medicine*, 32, 698-706, 1994.
- 19. <u>Constable</u> R.T., Rath K.M., Gore J.C., Development and Evaluation of Tracking Algorithms for Cardiac Wall Motion Analysis Using Phase Velocity MR Imaging, *Magnetic Resonance in Medicine*, 32, 33-42, 1994.
- 20. Shaywitz B.A., Pugh K.R., <u>Constable</u> R.T., Shaywitz S.E., Bronen R.T., Fullbright R., Shankweiler D., Katz L., Fletcher J.M., Gore J.C., Semantic Processing Activates Bilateral Frontal Regions During Conventional (1.5T) Functional Magnetic Resonance Imaging, *Human Brain Mapping*, 2: 149-158, 1995.
- 21. Graham G.D., Zhong J., Petroff A., <u>Constable</u> R.T., Prichard J.W., Gore J.C., MRI Monitoring of Changes in Cerebral Perfusion Induced by Acetazolamide and Hypercarbia in the Rat, *Magn Reson in Med*, 31, 557-560, 1994.
- 22. <u>Constable</u> R.T., Kennan R.P., Puce A., McCarthy G., Gore J.C., Functional MR Imaging using Fast Spin Echo at 1.5T, *Magnetic Resonance in Medicine*, 31, 686-690, 1994.
- 23. Meyer F.G., <u>Constable R.T.</u>, Sinusas A.J., Duncan J.S., Tracking Myocardial Deformation Using Spatially-Constrained Velocities, *IEEE Trans. Med. Imag.*, 15(4), 453-463, 1996.
- 24. Smith R.C., <u>Constable</u> R.T., Reinhold C., McCauley T., Lange R.C., McCarthy S., Fast Spin Echo STIR Imaging, *J. Comput. Assist. Tomog.*, 18(2), 209-213, 1994.
- 25. <u>Constable</u> R.T., Skudlarski P., Gore J.C., An ROC Approach for Evaluating Functional Brain MR Imaging and Post-Processing Protocols, *Magn. Reson. in Med.*, 34, 57-64, 1995.

- 26. Puce A., <u>Constable</u> R.T., Luby M.L., McCarthy G., Nobre A.C., Spencer D.D., Gore J.C., Allison T., Functional Magnetic Resonance Imaging of Sensory and Motor Cortex: Comparison with Electrophysiological Localization, *Journal of Neurosurgery*, 83(2), 262-270, 1995.
- 27. Shaywitz B.A., Shaywitz S.E., Pugh K.R., <u>Constable</u> R.T., et al, Sex Difference in the Functional Organization of the Brain for Language, *Nature*, 373(6515), 607-609, 1995.
- 28. Shi P., Amini A., Robinson G., Sinusas A., <u>Constable</u> R.T., Duncan J., Shape-Based 4D Left Ventricular Myocardial Function Analysis, *IEEE Workshop on Biomedical Image Analysis*, Seattle, Washington, June, 88-99, 1994.
- 29. Duncan J., Shi P., Amini A., <u>Constable</u> R.T., Staib L., Dione D., Heller E., Singer M., Chakraborty A., Robinson G., Gore J., Sinusas A., Towards Reliable Noninvasive Measurement of Myocardial Function from 4D Images, Medical Imaging 1994: Physiology and Function from Multidimensional Images, SPIE Press, vol. 2168, Newport Beach, Ca., 149-161, 1994.
- 30. <u>Constable</u> R.T., Functional MR Imaging using Gradient Echo EPI in the Presence of Large Static Field Inhomogeneities, *J. Magn. Resonance Imaging*, 5(6), 746-752, 1995.
- 31. Shi P., Robinson G., Chakraborty A., Staib L., <u>Constable</u> R.T., Sinusas A., Duncan J., A Unified Framework to Assess Myocardial Function from 4D Images, *First International Conference on computer vision, Virtual Reality and Robotics in Medicine*, Nice, France, April 3-6, 1995.
- 32. Pugh K.R., Shaywitz B.A., Shaywitz S.E., <u>Constable</u> R.T., Skudlarski P., Fulbright R.K., Bronen R.A., et al, Cerebral Organization of Component Processes in Reading, *Brain*, 119, 1221-1238, 1996.
- 33. Shaywitz B.A., Shaywitz S.E., Pugh K.R., Skudlarski P., Fulbright R.K., <u>Constable R.T.</u>, Bronen R.A., Fletcher J.M., Shankweiler D.P., Katz L., Lacadie C., Gore J.C., The Functional Organization of Brain for Reading and Reading Disability (Dyslexia), *Neuroscientist*, 2(4), 245-255, 1996.
- 34. McCarthy G., Puce A., <u>Constable</u> R.T., Krystal J.H., Gore J.C., Goldman-Rakic P., Activation of Human Prefrontal Cortex During Spatial and Object Working Memory Tasks Measured by Functional MRI, *Cerebral Cortex*, 6(4), 600-611, 1996.
- 35. Robson M.D., <u>Constable</u> R.T., Three Dimensional Strain-Rate Imaging, *Magnetic Resonance in Medicine*, 36(4), 537-546, 1996.
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BOOK CHAPTERS

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