Curriculum Vitae

January 2006

Fernando Fernandes Paiva

CMU/LFMI/NINDS/NIH
10 Center Drive
Bldg 10, Room B1D109
Bethesda, MD, 20892-1065
Phone: (301) 594-3031
E-mail: paivaf@ninds.nih.gov

PERSONAL INFORMATIONS

Birth Date: 24/02/1980
Birth City: Sao Paulo
Birth State: Sao Paulo
Birth Country: Brazil

EDUCATION

2005 – Predoctoral Fellow
National Institutes of Health, NIH, Bethesda, MD, USA.
Advisor: Afonso C. Silva, PhD

2004 – PhD. in Applied Physics
University of Sao Paulo, USP, Sao Paulo, Brazil.
Thesis: BOLD and Perfusion Based fMRI Methodologies Development: An Adiabatic Approach.
Advisor: Prof. Alberto Tannús, PhD

2002 - 2004 MSc. in Applied Physics
University of Sao Paulo, USP, Sao Paulo, Brazil.
Dissertation: Magnetic Resonance Imaging Methodology Using a Single Inversion Adiabatic Pulse.
Advisor: Prof. Alberto Tannús, PhD

1998 – 2001 B.S. in Physics
University of Sao Paulo, USP, Sao Paulo, Brazil.
Undergraduate Project: Magnetic Resonance Imaging and Spectroscopy methodologies using adiabatic RF pulses.
Advisor: Prof. Alberto Tannús, PhD

RESEARCH INTERESTS

Magnetic Resonance Imaging
Adiabatic Pulses
Perfusion based fMRI
BOLD based fMRI

TEACHING FELLOW POSITIONS

UNIVERSITY OF SAO PAULO – USP – Institute of Physics of Sao Carlos

02/2002 – 07/2002 Department of Physics and Materials Science, University of Sao Paulo.
Course: FCM184 – Laboratory of Physics III.
Supervisor: Luis Gustavo Marcassa

08/2002 – 12/2002 Department of Physics and Materials Science, University of Sao Paulo.
Course: FCM110 – Laboratory of Physics IV.
Supervisor: Luis Gustavo Marcassa

02/2003 – 07/2003 Department of Physics and Informatics, University of Sao Paulo.
Course: FFI106 – Laboratory of Physics III.
Supervisor: Luis Gustavo Marcassa

08/2003 – 12/2003 Department of Physics and Materials Science, University of Sao Paulo.
Course: FCM110 – Laboratory of Physics IV.
Supervisor: Luis Gustavo Marcassa

02/2004 – 07/2004 Department of Physics and Informatics, University of Sao Paulo.
Course: FFI106 – Laboratory of Physics III.
Supervisor: Luis Gustavo Marcassa

08/2004 – 12/2004 Department of Physics and Materials Science, University of Sao Paulo.
Course: FCM110 – Laboratory of Physics IV.
Supervisor: Luis Gustavo Marcassa

02/2005 – 07/2005 Department of Physics and Materials Science, University of Sao Paulo.
Course: FCM184 – Laboratory of Physics III.
Supervisor: Alberto Tannus

HONORS AND AWARDS

2005 Award for Best Paper Presented in Poster Section of Physics of Imaging in X Brazilian Congress of Medical Physics, Salvador, BA, Brazil.

2001 Award for Original and Distinguished Research in IX International Undergraduate Students Symposium of USP, Sao Paulo, SP, Brazil.

PUBLICATIONS

Papers Presented

Paiva, Fernando Fernandes; Martins, Mateus Jose; Vidoto, Edson Luiz Gea; Tannus, Alberto. Geometric Distortion and Ghost N/2 Artifacts Correction in Echo Planar Imaging (EPI). In: Brazilian Congress of Functional Neuroimaging, 2005, Ribeirao Preto, SP, Brazil.

Paiva, Fernando Fernandes; Salmon, Carlos Ernesto Garrido; Martins, Mateus Jose; Vidoto, Edson Luiz Gea; Tannus, Alberto. Interactive Viewport Development for 3D Images Visualization. In: Brazilian Congress of Functional Neuroimaging, 2005, Ribeirao Preto, SP, Brazil.

Papoti, Daniel; **Paiva, Fernando Fernandes**; Vidoto, Edson Luiz Gea, Tannus, Alberto. Development of a NMR Transductor for Small Animals Functional and Anatomical Studies. In: Brazilian Congress of Functional Neuroimaging, 2005, Ribeirao Preto, SP, Brazil.

Paiva, Fernando Fernandes; Tannus, Alberto. Development of a Processing Package for Echo Planar Imaging (EPI). In: X Brazilian Congress of Medical Physics, 2005, Salvador, BA, Brazil.

Paiva, Fernando Fernandes; Tannus, Alberto. 3D MRI Visualization Package Development. In: X Brazilian Congress of Medical Physics, 2005, Salvador, BA, Brazil.

Paiva, Fernando Fernandes; Tannus, Alberto. Development of BOLD and ASL perfusion based fMRI methodologies: adiabatic pulses approach. In: VIII Graduated Students Workshop, 2004, Sao Carlos, SP, Brazil.

Paiva, Fernando Fernandes; Tannus, Alberto; Foerster, Bernd Uwe. Magnetic resonance imaging using an inversion-recovery pulse sequence with a single adiabatic inversion pulse. In: II Brazilian Symposium of Physical Engineering, 2003, Sao Carlos, SP, Brazil.

Paiva, Fernando Fernandes; Tannus, Alberto; Foerster, Bernd Uwe. Multislice inversion-recovery imaging methodology using a single adiabatic inversion pulse. In: II Graduated Students Workshop of UFSCar, 2003, Sao Carlos, SP, Brazil.

Paiva, Fernando Fernandes; Foerster, Bernd Uwe; Xavier, Rogerio Ferreira; Tannus, Alberto. Inversion-recovery imaging using adiabatic inversion pulses. In: XXV National Meeting Of Condensed Matter Physics, 2002, Caxambu, MG, Brazil.

Paiva, Fernando Fernandes; Tannus, Alberto. Inversion-recovery imaging acquisition using a single adiabatic inversion pulse. In: 54ª Annual Meeting Of Brazilian Society For Science Progress, 2002, Goiania, GO, Brazil.

Paiva, Fernando Fernandes; Foerster, Bernd Uwe; Xavier, Rogerio Ferreira; Tannus, Alberto. Inversion-recovery imaging acquisition using a single adiabatic inversion pulse. In: IX International Undergraduate Students Symposium of USP, 2001, Sao Paulo, SP, Brazil.

Paiva, Fernando Fernandes; Foerster, Bernd Uwe; Xavier, Rogerio Ferreira; Tannus, Alberto. Magnetic resonance imaging and spectroscopy methodologies using

adiabatic RF pulses. In: XXIV National Meeting of Condensed Matter Physics, 2001, Sao Lourenco, MG, Brazil.

Didactic Materials

Marcassa, Luis Gustavo; **Paiva, Fernando Fernandes**. Laboratory of Physics III – Student Guide. 2003

Marcassa, Luis Gustavo; **Paiva, Fernando Fernandes**. Laboratory of Physics IV – Student Guide. 2003