

CURRICULUM VITAE

Dr. PLÍNIO BEZERRA DOS SANTOS FILHO, Ph.D.

Born in Caruaru, Pernambuco, Brazil in 30.09.1957

Science Background

Philosophy Doctor

Department of Physics
Washington University in Saint Louis
St. Louis, MO, USA, 1989

Post-Doctoral Work

Harvard University - Gordon McKay Applied Physics Laboratory
Prof. William Paul's Materials Research Group, 1989-1990

Washington University in Saint Louis – National NMR Laboratory
Prof. Jacob Shaeffer Research Group, 1993

North Carolina State University – NCSU Dept. of Physics
Prof. G. Lucovsky Group of Material Sciences, 1993-1996

Visiting Professor

North Carolina State University – NCSU Department of Physics from 1993 to 2002

Magnetic Resonance Spectroscopy and Magnetic Resonance Imaging

Neuro Spectroscopy Course - Huntington Memorial Hospital – Dr. Brian Ross, MD., Ph.D.
Pasadena, CA, USA, 2001

Master Degrees

Department of Physics, Washington University in St. Louis
St. Louis, MO, USA, 1984

Departamento de Física, Universidade Federal de Pernambuco
Recife, PE, Brasil, 1982

Bachelor in Physics

Departamento de Física
Universidade Federal de Pernambuco
Recife, PE, Brasil, 1979

Art Background

Member of the Ausstellungsraum Eulengasse - Frankfurt am Main, Germany - Since 2012

Washington University in Saint Louis 1984 – 1988
School of Fine Arts, Saint Louis, Missouri, EUA

Artistic Anatomy – Barry Schactman – 84/86
Artistic Drawing – Barry Schactman – 86/87
Prints and Printmaking
Lithography and Etching – Howard Jones – 85/87
Monoprints and contemporary prints - Peter Marcus – 85/87

Artistic Papermaking – Joan Hall – 87/88
Art History – Willem Wallace – 87/88
Italian Renacentist Architecture
Pop, Minimalismo and Post-Modernism
Painting – Edward Boccia – 84/90

Painting Education Petrônio Santos – Rio de Janeiro – 80
 Edward Boccia – Saint Louis – 84/90
 Mary Sprague – Saint Louis – 88/89
 Murilo la Grecca – Recife – 79
 Queralt Prat – UFPE – Recife – 79/80

Art Teaching Activities

Drawing - UST - Senior University of Tomar - Tomar, Portugal - 2017

Drawing, Painting and Printmaking - Espaço Vitruvio - Recife, PE, Brazil - 2005 to 2016

dOCUMENTA and Ausstellungsraum Eulengasse - Organization Visit - Kasel, Germany, 2015

Art History of the Western World - Espaço Vitruvio and Gallery 40 - Recife, PE, Brazil - 2014

Drawing Course - Tausch Contemporary Art Fair - 2014 - Offenbach and Frankfurt am Main - Germany - www.tausch.eulengasse.de

Drawing Performance with German Artist Helmut Werres - Tausch Contemporary Art Fair - 2014 - Offenbach and Frankfurt am Main - Germany - www.tausch.eulengasse.de

Drawing and Painting Lectures during the Vitruvio Space and Eulengasse Gallery International Art Course: Staedel - Frankfurt, Germany; Louvre - Paris, France; Auver-sur-Oise, France; Monets Gardens, Giverny, France and Argenteuil, France - 2014

dOCUMENTA and Ausstellungsraum Eulengassen - Guided Visit, Kasel, Germany, 2012

Drawing and Painting Lectures - Vitruvio Space and Eulengasse Gallery International Art Course: Staedel - Frankfurt, Germany - 2012

The Fundamentals of Drawing - Eulengasse Gallery - 2011 - Frankfurt am Main - Germany

The Science of Art Course - North Carolina State University - Raleigh, NC, USA - 1997 to 1999

Painting Course - Museum of Art of the State of Pernambuco, Recife, Brazil - 1993

The Practice of Lithography - Oficina Gayanases de Gravura - Olinda, PE, 1990 to 1993, Technical Director and Lithography Teacher.

The Drawing Course - Hera Sagitário Gallery - Recife, Pernambuco, Brazil, 1990 to 1993

The Fundamentals of Drawing - Washington University in Saint Louis, 1986
Dept. of Physics, Saint Louis, Missouri, EUA

Painting, Drawing and Printmaking Exhibitions

ERINNERUNG: Aggregatzustand:Transit (REMINDER: Physical State: Transit)

Members Show - Gallery Eulengasse - Jan 2017 - Frankfurt am Main - Germany

AUTO PORTRAITS - Individual Exhibition of Luiz Rangel Moreira - Set 2016
Recife City Museum, Recife, PE, Brazil - Curator: Plinio Santos-Filho, PhD

WORKS ON PAPER - Espaço Vitruvio - Nov 2015 - Recife, PE, Brazil

#OCCUPYESTELITA - Zement Gallery - One Man Show - Jul 2015
Frankfurt am Main - Germany

THE PORTRAIT - Espaço Vitruvio - Jul 2015 - Recife, PE, Brazil

ELEVEN - BELOW THE ECUADOR - Gallery Eulengasse - Aug 2014
Frankfurt am Main - Germany

ARTISTIC NUDE - Espaço Vitruvio - Nov 2013 - Recife, PE, Brazil

OLINDA ART EVERYWHERE - Nov 2011
Olinda, PE, Brazil, Guest Artist at Atelier Marise Cirne

O RECIFE PINTADO - Espaço Vitruvio - 2013 - Recife, PE, Brazil

34 AUTORRETRATOS - Espaço Vitruvio - 2012 - Recife, PE, Brazil

FOLLOW ME - 11 ARTISTS FROM PERNAMBUCO - Eulengasse Gallery - 2012
Frankfurt - Germany

ON THE SHOULDERS OF GIANTS - Eulengasse Gallery - 2011 - Frankfurt - Germany

RETROSPECTIVA DA OBRA - Galeria Hera Sagitário - 1991 - Recife, PE, Brazil

GUITARS - Saint Louis Public Library - 1986 - Saint Louis, MO, USA

RECENT WORK - Saint Louis Public Library - 1986 - Saint Louis, MO, USA

Artwork in Collections

Museo de la Raza - Los Angeles, CA, USA, Anheuser Busch Company Collection

Washington University in Saint Louis, R. E. Norberg Collection

Private collections in the USA, Brazil, France, Italy and Germany

Honors

“Outstanding Teacher of the Year” - North Carolina State University College of Physical and Mathematical Sciences, NCSU , EUA, 1998-1999
<https://www.physics.ncsu.edu/ncsaapt/awards/>

Member of the " North Carolina Section of the America Association of Physics Teachers"
<https://www.physics.ncsu.edu/ncsaapt/members/page3.html>

Best commented poster work presented at the Uro-Genital section of the Jornada Paulista de Radiologia - JPR 2004 - "Prostatic Proton Spectroscopy: The Real Hospital Português in Pernambuco”

CNPq - Conselho Nacional de Pesquisa, CNPq Brazil 2002-2003
Regional researcher allocated in the city of Olinda, PE, to format and direct the creation and operation of the Materials Research Study Center of Cultural Heritage.(a.n.: Olinda is a UNESCO preservation heritage site.)

North Carolina State University Department of Physics (NCSU-Physics) Teaching and Research 1993-2002

Created and introduced the new course: The Science of Art: Drawing, Structure, Optics, and Materials. (1997-2001), Dept. of Physics - NCSU, Raleigh, NC
<https://www.physics.ncsu.edu/ncsaapt/meetings/ReportSpring98.html> - Travel money prize.

Distance Education (e-Learning)
Created the “Virtual Classroom Player” – Best pedagogical work at the North Carolina Association of Physics Teachers, NC, USA, 1999
<https://www.physics.ncsu.edu/ncsaapt/meetings/ReportFall99.htm>

Tought physics in the classroom. I had my 211 and 212 physics lectures taped and broadcast by TV and internet between 1993 and 2002, Dept. of Physics, NCSU, NC, USA

Creator and President of "123 Web Street Multimedia", e-Learning training modules, with proprietary technologies for training and learning verification, Raleigh, NC, USA 1997-2001

Technical Knowledge

Research Scientist in the fields of materials and techniques related to Conservation and Restoration of cultural heritage art and documental works on paper;
Science of Art, Art History, Drawing and Painting teacher and lecturer;
Magnetic Resonance Spectroscopy (MRS) and Magnetic Resonance Imaging (MRI) in Medicine;
Nuclear Magnetic Resonance Spectroscopy and RF Hardware;
Fourier Transform Infrared Spectroscopy;
Electron Spin Resonance Spectroscopy and Hardware;
Semiconductor characterization by Nuclear Magnetic Resonance, Rapid Thermal Annealing, Auger, Mass Spectrometry, Fourier Transform Infrared Spectroscopy;
Physics and Conservation Laboratory Installation and Coordination;
Semiconductor film growth by Remote Plasma Enhanced Chemical Vapor Deposition;
Digital electronics, Electronic Instrumentation and Computers;
Cryogenics, High Vacuum, mechanical design, soldering and welding;
Book editing, design and publishing;
Web Site Administration, Design, and Construction in HTML, DHTML and PDF;

Optimization of Web Media and Multimedia: sound, images, animation, movies, synchronization, scanning, image retouching and color correction.

Scholarships - Doctoral Studies

Washington University in Saint Louis:
Graduate Research Fellow Scholarship 1987-1989
Xerox PreDoctoral Fellow Scholarship 1984-1987
Lillian Sirovich PreDoctoral Fellow Scholarship 1984-1987

CNPq (Research Council of Brazil):
Philosophy Doctor Scholarship 1982-1987
Master of Science Scholarship 1980-1982
Scientific Initiation Scholarship 1977-1979

Scientific and Academic work

Projects Director - 2005-2013 - Wrote, submitted, approved and directed projects that amounted over 1.000.000 euros in partnership with Unesco and the Brazilian Ministries of Science, Culture and Justice - aimed at the Conservation and Restoration of Cultural Heritage of Brazil.

Director and Organizer of the series "Simpósio de Técnicas Avançadas em Conservação de Bens Culturais no Brasil": 2002 and 2006 in Olinda, PE, Brazil
<http://www.restaurabr.org/siterestaurabr/revistaarc.html>

Editor of ARC - Revista Brasileira de Arqueometria, Restauração e Conservação
<http://www.restaurabr.org/siterestaurabr/revistaarc.html>
Brazilian Scientific Magazine of Archeometry, Restoration and Conservation
ISSN 1982-1174 - Since 2006

Creator and lecturer of CICRAD 2011 - Curso de Introdução à Conservação e Restauo de Acervos Documentais em Papel - Conservation and Restoration of Paper Archives Introduction Course - Distance Learning - Facebook, eMail and Webstar internet tools. 86 students worldwide. AERPA 2011 - 15 Modules available online -
<http://www.restaurabr.org/siterestaurabr/revistaarcvol02-01.html>

Project Director and Executive Director, Research Scientist, Lecturer and Teacher of AERPA - Agência de Estudos e Restauo do Patrimônio - NPO - Non Profit Organization - Dedicated to education and action for the preservation of the brasilian cultural heritage - Partnerships with UNESCO, Brazilian Ministry of Science and Tecnology, Ministry of Culture, Ministry of Justice, State and Municipal Governments and private partners. Creation and administration of Conservation and Restoration Schools in the cities of Olinda, Igarassu, Goiana, Penedo and Recife - <http://www.restaurabr.org/> Since 2001

Lecturer of the "Proton Spectroscopy Conference" at JPR
34th Jornada Paulista de Radiologia, JPR, São Paulo, Brazil, 2004

Neurological Spectroscopy: from pathology to cerebral death.
Prostatic MR Spectroscopy: mapping, differentiation and detection of prostatic pathologies without endorectal devices.

Scientist and researcher of MRI, MRS and Nuclear Medicine at Real Hospital Português de Beneficência, Recife, Pernambuco, Brazil, 2002-2005

Magnetic Resonance Application Specialist for Siemens Medical, Brazil
Trained and taught medical staff and personnel in Rio, São Paulo, Salvador and Recife, 2002-2005.

Published work, Presentations and Invited Lectures

Books

Um Dia no Recife, Santos-Filho, Plínio and Carneiro da Cunha, Francisco
AERPA Editora, Olinda, PE Brazil 164p., Illustrated, 2008 ISBN: 978-85-60136-01-8

Um Dia em Olinda, Santos-Filho, Plínio and Carneiro da Cunha, Francisco
AERPA Editora, Olinda, PE Brazil 164p., Illustrated, 2008 ISBN: 978-85-60136-02-5

One Day in Recife, Santos-Filho, Plínio and Carneiro da Cunha, Francisco
AERPA Editora, Olinda, PE Brazil 164p., Illustrated, 2012 ISBN: 978-85-60136-03-2

One Day in Olinda, Santos-Filho, Plínio and Carneiro da Cunha, Francisco
AERPA Editora, Olinda, PE Brazil 164p., Illustrated, 2012 ISBN: 978-85-60136-04-9

Recife Lugar de Memória, Santos-Filho, Plínio; De Queiroz, Malthus O.; Rocha, Sidney
AERPA Editora, Olinda, PE Brazil 104p., Illustrated, 2012 ISBN: 978-85-60136-05-6
PDF version at: <http://www.restaurabr.org/rlm.html>

Papers and Lectures

Carmelite Order Heritage in the Cities of Olinda and Recife - Plínio Santos Filho; Francisco Cunha and Karla Oliveira Grimaldi; Sociedade de Geografia de Lisboa, Lisbon, Portugal, published in July 2017

Modern Architectures and Urban Rehabilitation in Portugal - Lecture: "Low Cost High Quality Rehabilitation, New Materials and Techniques; Co-organizer and lecturer.
Sociedade de Geografia de Lisboa, Lisbon, Portugal - 20 February 2017

Olinda, The Most Portuguese of All Brazilian Cities - Unesco World Heritage Site 1982"
Sociedade de Geografia de Lisboa, Lisbon, Portugal - 9 January 2017

Optical Coherence Tomography system for painting characterization
Implementation of the Technique; Hannah U. K. S. Kashyap^{1,2} Cláudia C. B. O. Mota²,
Bernardo B. C. Kyotoku², Anderson S. L. Gomes² and Plínio Santos-Filho³
Congresso em Cuba, 2009

Traditional, Vernacular and Newly developed Construction Technologies Applied to the Slave Descendent Women Clam Gathers Community of Povoação de São Lourenço in Pernambuco, Brazil - Plínio Santos-Filho, Ph.D., et al., AERPA, 6º ATP - Seminário Arquitetura de Terra em Portugal - Coimbra - Portugal 2010

The Use of Supermarket Plastic Bags in the Making of Adobe Bricks and as Horizontal Adobe Wall Reinforcement Elements - Plínio Santos-Filho, Ph.D., Antônio Gomes dos Santos-Filho, et al., AdobeUSA 2009, *Adobe Association of the Southwest and NNMC, El Rito, NM, USA* 2009

1º Fórum Brasileiro do Patrimônio Cultural, Belo Horizonte, MG, dezembro de 2004, UFMG

Anais F736a – Fórum Brasileiro do Patrimônio Cultural (1.:2004: Belo Horizonte, MG)
Coordenação L. Barci Castriota e L. A. C. Souza

A Gestão da Informação para a Conservação de Bens Culturais de Valor Hereditário:
O Projeto Restaura-BR, Plínio Bezerra dos Santos Filho;
Maria Luiza Soares; Luiz Antônio Cruz Souza; AERPA; página 124

Desenvolvimento do Sistema de Sinalização Gráfica Urbana de Olinda (SSGU-Olinda)
para Acesso aos Sítios Históricos, Plínio Bezerra dos Santos Filho; AERPA; página 77

American Society of Neuroradiology – Paper 349
Seattle, USA, June 2004 – “Brain Death Studied by MR Spectroscopy: Definition of a
Relaxation Time for Brain Death” - Santos-Filho, P. (Author), et al.

American Society of Neuroradiology – Paper 348
Seattle, USA, June 2004 – MR Protocol in the Confirmatory Diagnoses of Brain Death:
Analysis of 43 Cases – Cartaxo, H. (Author), Santos-Filho, P. (Coauthor), et al.

American Heart Association – New Orleans - November 2004
Oral Sildenafil Improves Functional Status and Cardiopulmonary Hemodynamics in Patients
with Severe Hypertension Secondary to Chronic Pulmonary Schistosomiasis: A Cardiac Magnetic
Resonance Study - Loureiro, R. (Author), Santos-Filho, P. (Coauthor), et al.

Papers in the XXXII - Congresso Brasileiro de Radiologia
Recife, Brazil, October – 2003

“Volumetric Interpolated Breath Hold Examination” (VIBE) de Ressonância Magnética
no Corpo: 16 Casos e Revisão da Literatura. Cavalcanti, ACR (Author), Santos-Filho,
P. (Coauthor), et al.

Biópsia Virtual Prostática Pela Espectroscopia de Ressonância Magnética de Prótons
(MRS-H): A Experiência do Real Imagem. Santos-Filho, P. (Author), et al.

Espectroscopia de Ressonância Magnética de Prótons (MRS-H) da Próstata sem
Bobina Endorectal em 2-D e 3-D. Santos-Filho, P. (Author), et al.

Espectroscopia de Prótons e Perfusão por Ressonância Magnética em Gliomas
Encefálicos. Cartaxo, H. (Author), Santos-Filho, P. (Coauthor), et al.

Morte Cerebral Estudada pela Espectroscopia de Ressonância Magnética de Prótons
(MRS-H). Santos-Filho, P. (Author), et al.

Técnicas Avançadas de Ressonância Magnética no Diagnóstico Confirmatório da
Morte Encefálica: Análise de 40 Casos. Cartaxo, H. (Author), Santos-Filho, P.
(Coauthor), et al.

Invited Lecturer to Teach the MRS-MRI Physics Course at the 34th Jornada Paulista de
Radiologia JPR, April 2004, São Paulo, Brazil

Papers at the 34th Jornada Paulista de Radiologia - JPR, April 2004, São Paulo, Brazil

A Morte Cerebral Estudada pela Espectroscopia de Ressonância Magnética de
Prótons (MRS-H) – Definição de um Tempo de Relaxação. Santos-Filho, P., et al.

Espectroscopia de Prótons (MRS-H) e Ressonância Magnética (RM) da Próstata Sem Dispositivo Endoretal em 2D e 3D. Santos-Filho, P. (Author), et al.

Espectroscopia por Ressonância Magnética de Prótons (MRS-H) da Próstata no Real Hospital Português de Beneficência em Pernambuco. Santos-Filho, P. (Author), et al.
- Judged the "Best Commented Paper in the Uro-Genital Section of the Conference"

Coauthor in three papers – 32nd Jornada Paulista de Radiologia, JPR 2002, São Paulo, Brazil

Lectures on MRS and MRI of the Brain and the Prostate in the Departments of Physics, of Chemistry, and School of Medicine at the Federal University of Pernambuco – 2003 and 2004.

Invited Lecture on MR Spectroscopy at the Pernambuco Academy of Sciences – 2004

Invited Lecture on MR Spectroscopy at the Department of Physics of the Universidade Federal da Paraíba – 2004

Invited Lecture on MR Spectroscopy of the Prostate at the Society of Urology of the State of Rio Grande do Norte – 2004

Structural Characterization of a-SiN:D,H Thin Films by Deuterium Magnetic Resonance
P. Santos-Filho, G. Stevens, G. Lucovsky, T. Cull, P. Fedders, D. Leopold, and R. Norberg
J. Non-Cryst. Solids (1996)

Fourier Transform Infra Red Study of Rapid Thermal Annealing of Remote Plasma Chemical Vapor Deposited (RPECVD) a-Si-nitride Films - Z. Lu, P. Santos-Filho, G. Stevens, M. Williams, and G. Lucovsky, Journal of Vacuum Technology, A13, (1995)

Bonding of oxygen and nitrogen atoms in hydrogenated amorphous silicon alloys
G. Lucovsky, P. Santos-Filho, Z. Lu, Z. Jing and J.L. Whitten, J. Non-Cryst. Solids 190, 169 (1995)

Hydrogen Release and Si-N Bond-Healing Infra Red Study of Rapid Thermal Annealed Amorphous Silicon Nitride Thin Films
P. Santos-Filho, Z. Lu, and G. Lucovsky, Mat. Res. Soc. Proc. C (Fall 1995), In Press

Silyl Rotors and Amorphous Silicon
P. Santos-Filho, J. Bodart, P. A. Fedders and R. E. Norberg
Solar Cells, 27, 385 (1989)

Modified Solomom Deuteron Spins Echoes from Isolated Ortho-D2
in Amorphous Silicon, P. Santos-Filho, Y. W. Kim, P. A. Fedders and R. E. Norberg
Bull. Am. Phys. Soc. 34, 476, (1989)

Four Phase Network and Pulse Processor for NMR Spectroscopy
P. Santos-Filho, Bull. Am. Phys. Soc. 31, 242, (1986)