

JOÃO H. DE JESUS
Research Associate
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EDUCATION

University of North Carolina at Chapel Hill
Ph.D. in Physics, November 2004
Dissertation: “Time–Reversal–Violating Nuclear Schiff Moments”
Advisor: Jonathan Engel

University of Lisbon, Portugal
M.Sc. in Physics, May 2000
Thesis: “Effects of Variable Nucleon Energy in the Relativistic Analysis of deuteron–nucleus Scattering”
Advisors: Filipe Duarte Santos and José Paulo Pinto

B.Sc. in Physics, June 1997

AWARDS AND FELLOWSHIPS

Outstanding Graduate Teaching Assistant Award

Award given by the American Association of Physics Teachers to a graduate teaching assistant in a university with a graduate physics program. April 2004.

Ph.D. Research Fellowship

Recipient of a nationally competitive fellowship for scientific research at the doctorate level from the Portuguese Foundation for Science and Technology. January 2001 to December 2004.

Nomination for the Outstanding Graduate Teaching Assistant Award

Nominated by the faculty of the Department of Physics & Astronomy, University of North Carolina at Chapel Hill. April 2001.

Board of Governors Fellowship

Recipient of a fellowship for incoming graduate students in scientific areas from the University of North Carolina at Chapel Hill. August 2000 to May 2001.

Nomination for the Tanner Award for Excellence in Undergraduate Teaching

Nominated by the Director of Undergraduate Laboratories of the Department of Physics & Astronomy of the University of North Carolina at Chapel Hill. October 2000.

Young Researcher Fellowship

Recipient of a nationally competitive fellowship for scientific research at the undergraduate level from the Portuguese Foundation for Science and Technology. January 1998 to December 1999.

High School Merit Scholarship

Recipient of a nationally competitive scholarship for merit in high school from the Portuguese Calouste Gulbenkian Foundation. October 1986 to June 1988.

RESEARCH EXPERIENCE

University of Wisconsin–Madison

Research Associate, September 2005 to present

- Conducts scientific research in theoretical nuclear physics and neutrino physics.

National Institute for Nuclear Theory in Seattle

Visiting Scholar, July 2005.

University of North Carolina at Chapel Hill

Research Assistant in Nuclear Physics, June 2000 to June 2005

- Conducted scientific research in theoretical nuclear physics; wrote computational codes in FORTRAN and Mathematica to solve problems associated with many-body physics and angular momentum coupling.
- Directed the University of North Carolina Nuclear Physics Seminars in 2002 and 2003.

Computer Integrated Systems for Microscopy and Manipulation, University of North Carolina at Chapel Hill

Research Assistant in Biomedical Research, July and August 2004

- Collaborated in scientific research in biophysics of DNA and cell division.

Los Alamos National Laboratory

Visiting Researcher, May 2003

- Conducted scientific research in theoretical nuclear physics.

Clemson University

Visiting Researcher, November 2000

- Collaborated in scientific research in nuclear astrophysics.

University of Lisbon, Portugal

Research Collaborator, October 1997 to May 2000

- Collaborated in scientific research in nuclear physics; wrote computational codes in FORTRAN to solve problems associated with relativistic nuclear physics.

TEACHING EXPERIENCE

University of North Carolina at Chapel Hill, Department of Physics & Astronomy

Invited Lecturer, January to June 2005

- Taught undergraduate laboratory and recitation courses.

University of North Carolina at Chapel Hill, Department of Physics & Astronomy

Teaching Assistant, August 2000 to December 2004

- Taught undergraduate laboratory courses.
- Served as grader to both undergraduate and graduate courses.

TA Trainer, August 2001, August 2003 and August 2004

- Served as an assistant to the Director of Undergraduate Laboratories in the training of new Physics and Astronomy Teaching Assistants.

Nova Academia, Lisbon, Portugal

Physics Tutor, August 1998 to May 2000

- Tutored physics to undergraduate students from different majors and Universities.

COMPUTATIONAL SKILLS

Proficient: Windows and Unix environments. FORTRAN and Mathematica programming.

Knowledgeable: MathCad, MATLAB, and C/C++ programming.

LEADERSHIP

Portuguese American Postgraduate Society (PAPS)

Vice-President of the Executive Committee, January 2001 to January 2002

- Co-organized the 3rd Forum of PAPS in Chapel Hill and Durham, NC January 18–20 2002. The Forum counted with the participation of many Portuguese Ph.D. students and Post docs working in the United States, as well as academia, business, and government leaders from both countries. The Forum had the sponsorship of the University of North Carolina and Duke University.

Professional Theater Company “Visões Úteis”

Co-founder

- “Visões Úteis” is a company based in Porto, Portugal, which has produced more than twenty plays in the past ten years.

LANGUAGES

Portuguese: Native

English: Fluent

Spanish: Good

French: Fair

PROFESSIONAL MEMBERSHIPS

American Physical Society

American Association of Physics Teachers

European Physical Society

Portuguese Physical Society

Portuguese American Postgraduate Society