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Education

- 2016 UNIVERSIDADE DE SÃO PAULO
Livre Docente (necessary title for Associate Professorship at Universidade de São Paulo)
Thesis Title: *Randomness and dissipation effects in quantum phase transitions*
- 2005 UNIVERSIDADE ESTADUAL DE CAMPINAS
PhD in Physics, Nov 2005 (Adivisor: [Eduardo Miranda](#))
Thesis Title: *Randomness in quantum spin systems*
- 2003 UNIVERSIDADE ESTADUAL DE CAMPINAS
BS degree in Education of Physics, Dec 2003
- 2001 UNIVERSIDADE ESTADUAL DE CAMPINAS
BS in Physics, Jan 2001

Academic Positions and Appointments

- 2016– Associate Professor in Physics, Instituto de Física de São Carlos, USP
- 2010–16 Assistant Professor in Physics, Instituto de Física de São Carlos, Universidade de São Paulo (USP)
- 2009–10 Postdoctoral Research Associate, National High Magnetic Field Laboratory (Adivisor: [Vladimir Dobrosavljević](#))
- 2007–09 Postdoctoral Research Associate, Department of Physics, Duke University (Adivisor: [Harold U. Baranger](#))
- 2006–07 Postdoctoral Research Associate, Department of Physics, Missouri University of Science and Technology (Adivisor: [Thomas Vojta](#))
- 2005 Lecturer for Classical Mechanics, Instituto de Física Gleb Wataghin, Unicamp
- 2001–04 Graduate Teaching Assistant, Instituto de Física Gleb Wataghin, Unicamp
- 2001–05 Graduate Research Assistant, Instituto de Física Gleb Wataghin, Unicamp (Adivisor: [Eduardo Miranda](#))
- 1999–2000 Undergraduate Research Assistant, Instituto de Física Gleb Wataghin, Unicamp (Adivisor: [Eduardo Miranda](#))
- 1998–99 Undergraduate Research Assistant, Instituto de Matemática, Estatística e Computação Científica, Unicamp (Adivisor: [José M. Martínez](#))
- 1997–98 Undergraduate Teaching Assistant, Instituto de Matemática, Estatística e Computação Científica, Universidade Estadual de Campinas (Unicamp)

Research Activity Fields

Condensed Matter.

Statistical Mechanics.

Research Interests

Quantum, Classical, and Nonequilibrium Phase Transitions
Magnetism
Strongly Correlated Systems

Research Publications and Talks

38 research papers in refereed journals
01 book chapter
11 invited talks at international meetings/workshops + 02 invited talks in national workshops
24 seminar and colloquium talks
01 short-course delivered in international schools
02 short-courses delivered in national schools
(for complete publication list and other informations, see www.ifsc.usp.br/~hoyos)

Grants and Awards

2010–18 Scientific Research Productivity Fellowship, supported by CNPq, level 2, PI (100%)
2016–21 *Quantum Spin Chains*, supported by FAPESP as “Projeto Temático”, co-PI (50%)
2013 *Disorder, Dynamics, Frustration and Topology in Quantum Condensed Matter*, supported by FAPESP as “Viagem ao Exterior”, PI (100%)
2012–14 *Quantum phases of interacting and disordered systems*, supported jointly by CNPq and ANR (France), co-PI (33%)
2010–12 *Quantum phase transition: effects of randomness and dissipation*, supported by FAPESP as “Auxílio Regular”, PI (100%)
2001-05 Graduate Research Fellowship, supported by FAPESP
1999-2000 Undergraduate Research Fellowship, supported by Fundação de Amparo à Pesquisa de São Paulo (FAPESP)
1998–99 Undergraduate Research Fellowship, supported by Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)

Teaching

At Instituto de Física de São Carlos, University of São Paulo

Undergraduate Classes: *Basic Physics I, II and III, Statistical Mechanics, Computational Physics*

Graduate Classes: *Quantum Mechanics, Solid State Physics, Statistical Mechanics, Quantum Many-body Physics, Phase Transitions and Renormalization Group*

PhD students supervised: 01; MS students supervised: 02 (01 finished)

PhD students co-supervised: 02 (02 finished)

Postdocs supervised: 02 (01 finished)

At Instituto de Física Gleb Wataghin, University of Campinas

Undergraduate Classes: *Classical Mechanics*, *Basic Physics I* (as undergraduate teaching assistant), *Quantum Mechanics* (as graduate teaching assistant)

At Instituto de Matemática, Estatística e Computação Científica, University of Campinas

Undergraduate Classes: *Calculus I* (as undergraduate teaching assistant)

Organization of Events

- 2018 Workshop on *Strong Electron Correlations in Quantum Materials: Inhomogeneities, Frustration, and Topology*, Aug 14-18, ICTP-SAIFR/IFT-UNESP, São Paulo, Brazil
- 2016 *I Advanced School on Theoretical Physics* at USP, São Carlos, SP, Brazil
- 2013 *Symposium on Statistical Mechanics in honor of the 60th birthday of prof. Francisco Alcaraz* at USP, São Carlos, SP, Brazil
- 2011 *III Brazilian School on Statistical Mechanics* at the International Institute for Physics, Natal, RN, Brazil
- 2003 *IV Young Investigator Meeting* at Unicamp, Campinas, SP, Brazil

Physical Community Service

Reviewer for *Proceedings of the National Academy Sciences (USA)*, *Physical Review Letters*, *Physical Review A*, *B* and *E*, *Nuclear Physics B*, *Scientific Reports*, *Journal of Statistical Mechanics*, *Brazilian Journal of Physics*, *European Physical Journal B*, *Physica A*

Reviewer for the funding agencies: FAPESP (Brazil), CAPES (Brazil), CNPq (Brazil) and European Science Foundation

University Service

- 2011–12 Member of the Department Council, FCM-IFSC-USP
- 2016–17 Member of the Council, CDCC-USP
- 2016–22 Member of the Research Committee, IFSC-USP
- 2017–20 Member of the Department Council, FCM-IFSC-USP
- 2017–18 Member of the Institute Council, IFSC-USP
- 2018–20 Vice president of the Cultural and Extension Activities board, IFSC-USP
- 06 times in examination boards for Master defense
- 09 times in examination boards for PhD defense
- 01 time in a committee search for faculty at entry level
- 01 time in a committee search for laboratory research staff at entry level

Affiliations

American Physical Society

Brazilian Physical Society