

JOÃO JESUS CAETANO

Portuguese citizen, currently living in Lisbon.

1. PROFESSIONAL EXPERIENCE

IMT – Institute of Mobility and Transport, Portugal
Chairperson of the Board, September 2022 – present.

ERA – European Union Agency for Railways, Belgium
Member of the Management Board, September 2022 – present.

Ministry of Infrastructure and Housing, Portugal
Senior Policy Advisor, November 2019 – August 2022 (*on leave March 2020 – August 2021*)

Portuguese Permanent Representation to the European Union, Belgium
Senior Attaché, March 2020 – August 2021.

CEiiA — Center for Engineering and Product Development, Portugal
Head of Innovation Policy, March 2016 – October 2019.
Head of Research, Development, and Innovation (INTELI), June 2010 – February 2016.

Ministry of Economy, Innovation and Development, Portugal
Policy Advisor, October 2009 – May 2010.

Ministry of Labor and Social Solidarity, Portugal
Policy Advisor, September 2008 – September 2009.

Center for Nuclear Physics of the University of Lisbon, Portugal
Postdoctoral Researcher, September 2007 – August 2008.

University of Wisconsin-Madison, Department of Physics, USA
Associate Researcher, September 2005 – August 2007.

2. TEACHING EXPERIENCE

Advanced Technologies Institute, Portugal
Associate Professor, October 2021 – present.
Invited Professor, March 2011 – February 2013.

University of Wisconsin-Madison, Department of Physics, USA
Faculty Assistant, January – June 2007.

University of North Carolina at Chapel Hill, Department of Physics, USA
Invited Lecturer, January – June 2005.

3. EDUCATION

University of North Carolina at Chapel Hill, USA
Ph.D. in Physics, December 2004.

University of Lisbon, Portugal
M.Sc. in Physics, May 2000.
B.Sc. in Physics, June 1997.

4. TRAINING

INSEAD Business School, Singapore
Executive Presence and Influence, January 2024.

ISCTE – Instituto Universitário de Lisboa, Portugal
CAGEP – Advanced Course on Public Administration, February 2023.

5. HONORS

Portuguese Firefighters League
Acknowledgment Medal, May 2024

Foundation for Science and Technology, Portugal
Postdoctoral Fellowship, September 2007 – August 2008.
Ph.D. Scholarship, January 2001 – December 2004.
Young Researcher Fellowship, January 1998 – December 1999.

University of North Carolina at Chapel Hill, Department of Physics, USA
Board of Governors Fellowship, August 2000 – May 2001.

6. LEADERSHIP

PAPS – Portuguese American Postgraduate Society, USA
Vice-President of the Executive Committee, January 2001 – January 2002.

Theater Company 'Visões Úteis', Portugal
Founder, 1994 – present.

7. PUBLICATIONS AND COMMUNICATIONS IN INNOVATION AND POLICY [2010 – present]

Book Chapters

[1] “A Civilização dos 100 Engenheiros”, João Jesus Caetano, *in* 88 Vozes Sobre a Inteligência Artificial, ISCTE e Oficinas do Livro, 2023.

Communications as Invited Speaker

[37] “The 100 Engineers’ Civilization: Will We Be Able to Develop Appropriate Regulatory Frameworks?”, 3rd Digital Revolution in Connected Cars, Munich, Germany, 13-14 March 2024.

- [36] “Alta Velocidade: Desafios Nacionais”, Portugal Railway Summit 2023, Entroncamento, Portugal, May 4, 2023.
- [35] “Integrating Road, Rail, Air and Waterborne – multimodality by any means?”, ITS European Congress, Lisbon, Portugal, April 22, 2023
- [34] “Já chegámos?”, Fórum de Mobilidade e Transportes, Lisbon, Portugal, April 5, 2023.
- [33] “Are we there yet? What does it mean to decarbonise transport?”, Transportation and Mobility Research Hub Inauguration Conference, Guimarães, Portugal, March 30, 2023.
- [32] “EV Governance: The Portuguese Experience”, London EV Show, London, United Kingdom, November 29, 2022.
- [31] “Innovative Infrastructure for Europe 2030”, Transport Research Arena, Lisbon, Portugal, November 16, 2022.
- [30] “Perspectives of the Portuguese Presidency of the Council of the European Union on the European Year of Rail”, European Committee of the Regions Meeting, virtual, June 22, 2021.
- [29] “What Does it Mean to Decarbonize Transportation”, Science & Society for Sustainability, UNESCO Chair in Biodiversity Safeguard for Sustainable Development at the University of Coimbra, webinar, June 9, 2021.
- [28] “The European Year of Rail – Expectations, priorities and challenges”, Rail Forum Europe, webinar, December 9, 2020.
- [27] “Challenges Ahead for Shared and Decarbonized Mobility”, Sharing Cities Trade Show at London Hall, London, United Kingdom, September 25, 2019.
- [26] “The Portuguese Innovation Potential on the Green Economy”, Climate-KIC Portugal Kick-off, Lisbon, Portugal, November 29, 2016.
- [25] “Decarbonizing Mobility in Portugal and Brazil”, Parallel Session of the XXVII ISPIM Innovation Conference, Porto, Portugal, June 22, 2016.
- [25] “Research and Innovation: Decarbonizing Mobility”, Horta – Faial, Azores, Portugal, June 16, 2016.
- [23] “The Transformation Process of Smart Cities”, 4th Smart Cities International Forum Curitiba, Brazil, December 3, 2015.
- [22] “Are Companies Hiring PhDs?”, ITQB – Institute of Chemistry and Life Sciences Technologies, Oeiras, Portugal, May 28, 2015.
- [21] “Smart Mobility and the Future of Cities”, ITAIPU Technological Park Seminar, Foz do Iguaçu – Paraná, Brazil, May 7, 2015.
- [20] “More Innovation, Better Economy”, Portuguese Socialist Party Conference on Innovation (keynote speaker: Mariana Mazzucato), Lisbon, Portugal, April 20, 2015.
- [19] “Public Sector and Cities Also Go Digital”, Digital Action Day 2014, European Commission, Brussels, Belgium, September 29, 2014.
- [18] “Business Interoperability on the EV Ecosystem”, Amsterdam Roundtables, The Netherlands, June 19, 2014.
- [17] “E-Mobility Projects in Portugal and Brazil”, Alliander Mobility Services Mini-Seminar, Arnhem, The Netherlands, June 12, 2014.
- [16] “Technological and Social Innovation”, Portuguese Socialist Party Forum on Innovation, Lisbon, Portugal, January 29, 2014.
- [15] “Living Labs”, 2nd Forum on R&D+i, Lisbon, Portugal, November 27, 2013.
- [14] “Billing for Electro-Mobility Across Europe”, European Utility Week, Amsterdam, The Netherlands, October 15, 2013.
- [13] “Windmills and Electric Vehicles”, European Researchers’ Night, Lisbon, Portugal, September 27, 2013.
- [12] “The Growth of Electro-Mobility Across Europe”, 4th Urban Mobility Conference, Lisbon, Portugal, September 17, 2013.
- [11] “Bridging Electro-Mobility Initiatives”, Green eMotion Stakeholders Forum, Brussels, Belgium, June 24, 2013.

- [10] *“The Challenge of Integrating Electro-Mobility Initiatives”*, CIP ICT PSP Smart-Connected Electro-Mobility, Vitoria-Gasteiz, Spain, October 2, 2012.
- [09] *“Ph.D. in Nuclear Physics and the Many Interfaces”*, Fest Seminar for Professor Filipe Duarte Santos, Lisbon, Portugal, November 26, 2012.
- [08] *“Why Not Now? The EV as a Vehicle of Tomorrow”*, Annual T²M Conference, Madrid, Spain, November 18, 2012.
- [07] *“Electro-Mobility in Europe”*, 3rd Urban Mobility Conference, Lisbon, Portugal, September 18, 2012.
- [06] *“The Challenge of Integrating Electro-Mobility Initiatives”*, European Green Cars Initiative Meeting, Brussels, Belgium, July 11, 2012.
- [05] *“The Challenge of Integrating Electro-Mobility Initiatives”*, Smart Energy and Sustainable ICT Conference, Brussels, Belgium, May 4, 2012.
- [04] *“MOBI.Europe – Interoperability in the European EV Ecosystem”*, CIP ICT PSP Smart-Connected Electro-Mobility Launch Event at the European Parliament, Brussels, Belgium, February 8, 2012.
- [03] *“An Integrated Approach to Electro-Mobility: the Portuguese Case”*, Estonian Development Fund, Tallinn, Estonia, May 27, 2011.
- [02] *“MOBI.Europe – Integrated and Interoperable ICT Applications and Services for Electro-Mobility in Europe”*, International Energy Agency Meeting, Lisbon, Portugal, November 10, 2011.
- [01] *“A Private Sector View on ICT Applications for Country-wide Electric Mobility”*, OECD Technology Foresight Forum 2010 – Smart ICTs and Green Growth, Paris, France, September 29, 2010.

Other Communications

- [02] *“Bridging Electro-Mobility Initiatives”*, 27th International Electric Vehicle Symposium and Exhibition, Barcelona, Spain, November 17-20, 2013.
- [01] *“Pan-European Network(s) of Electro-Mobility”*, 9th ITS European Congress, Dublin, Ireland, June 4-7, 2013.

8. PUBLICATIONS AND COMMUNICATIONS IN PHYSICS [1999 – 2008]

Theses

- [02] *“Time-Reversal-Violating Nuclear Schiff Moments”*, João H. de Jesus, Ph.D. Dissertation, Advisor: Jonathan Engel, University of North Carolina at Chapel Hill, December 2004.
- [01] *“Effects of Variable Nucleon Energy in the Relativistic Analysis of deuteron-nucleus Scattering”*, João H. de Jesus, M.Sc. Thesis, Advisors: Filipe Duarte Santos and José Paulo Pinto, University of Lisbon, Portugal, May 2000.

Publications in Peer-Reviewed Journals

- [07] *“Low-energy neutrinos at off-axis from a standard beta-beam”*, Phys. Rev. D 76 053006 (2007), R. Lazauskas, A. B. Balantekin, J. H. de Jesus and C. Volpe [hep-ph/0703063].
- [06] *“Spectra and Pairing in Nuclear Physics”*, Phys. Rev. C 75 064304 (2007), A. B. Balantekin, J. H. de Jesus and Y. Pehlivan [nucl-th/0702059].
- [05] *“A conserved vector current test using low energy beta-beams”*, Phys. Rev. D 73 073011 (2006), A. B. Balantekin, J. H. de Jesus, R. Lazauskas and C. Volpe [hep-ph/0603078].
- [04] *“Electroweak tests at beta-beams”*, Phys. Lett. B 634 180 (2006), A. B. Balantekin, J. H. de Jesus and C. Volpe [hep-ph/0512310].
- [03] *“Time-Reversal-Violating Schiff Moment of ¹⁹⁹Hg”*, Phys Rev. C 72 045503 (2005), J. H. de Jesus and J. Engel [nucl-th/0507031].
- [02] *“Time-Reversal-Violating Schiff Moment of ²²⁵Ra”*, Phys. Rev. C 68 025501 (2003), J. Engel, M. Bender, J. Dobaczewski, J. H. de Jesus and P. Olbratowski [nucl-th/0304075].

[01] *“Effects of Variable Nucleon Energy in the Relativistic Analysis of deuteron-nucleus Scattering”*, J. Phys. G: Nucl. Part. Phys. 26 (2000) 1217, J. H. de Jesus, J. P. Pinto and F. D. Santos.

Communications as Invited Speaker

[07] *“Open questions about neutrinos”*, Nuclear and Particle Physics Seminar, University of Lisbon, Portugal, April 30, 2008.

[06] *“Beta-beams”*, University of Lisbon, Portugal, April 11, 2008.

[05] *“Measurement of the Weinberg angle with low-energy beta-beams”*, International Workshop on Fundamental Symmetries: from Nuclei and Neutrinos to the Universe, ECT* Trento, Italy, June 27, 2007.

[04] *“Electroweak tests at low energy beta-beams”*, The 2nd Symposium on Neutrinos and Dark Matter in Nuclear Physics, Paris, France, September 8, 2006.

[03] *“Electroweak tests at low energy beta-beams”*, Eurisol Town Meeting, Caen, France, November 29, 2005.

[02] *“Time-reversal-violating nuclear Schiff moments”*, TRIUMF Seminar, Vancouver, Canada, February 10, 2005.

[01] *“Time-reversal-violating nuclear Schiff moments of ^{129}Xe and ^{199}Hg ”*, 2004 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, Chicago, Illinois, USA, October 29, 2004.

Other Communications

[02] *“Nuclear Schiff moment calculations”*, Workshop on Electric Dipole Moments and CP-Violation, National Institute for Nuclear Theory, Seattle, Washington, USA, March 20, 2007.

[01] *“Time-reversal violation at low energies: calculating nuclear Schiff moments”*, Fourteenth Nuclear Physics Summer School, Santa Fe, New Mexico, USA, August 5, 2002.

Posters

[01] *“Effects of variable nucleon energy in the relativistic analysis of deuteron-nucleus scattering”*, Particles and Nuclei International Conference, Uppsala, Sweden, June 10–16, 1999.