

Curriculum Vitae

Contact

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DEM - Environment and Energy Scientific Area

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Academic Qualification and Scientific Experience

PhD in Environmental Engineering by Instituto Superior Técnico (IST), Lisbon in September 2007, with the title *Environmental responsibility: theory and measurement*.

Licenciatura in Environmental Engineering by Instituto Superior Técnico (IST), Lisbon in December 2001. Final Degree Work *Integration of Environmental Variables in Endogenous Growth Models*.

October 2009 onward, Assistant Researcher at IST on the theme Bayesian Estimation in Input-Output Analysis.

October 2007 - September 2009, post-doc researcher at IST on the theme *Measurement of embodied carbon emissions of products*.

During the PhD: research carried out at SERI (Vienna, October 2002-June 2003) under supervision of Stefan Giljum on *material flow analysis*; at the Vrije Universiteit (Amsterdam, April-August 2005) on the *dynamic energy budget theory* under supervision of Bas Kooijman; at Princeton University (Princeton, September-December 2005) on *adaptive dynamics* under the supervision of Joshua Weitz.

Marie Curie fellow at ULB (Brussels, April-September 2004), under supervision of Jean-Louis Deneubourg. Marie Curie fellow at Keele University (Keele, October 2003-March 2004), under supervision of John Proops.

Researcher at IDMEC/IST (Lisbon, October-April 2002), under supervision of Tiago Domingos. Scholarship at IN+/IST (Lisbon, April-September 2001), under supervision of Pedro Conceição. Research on surface physical chemistry at QE3/IST (Lisbon, March 1999-March 2001), under supervision of Benilde Saramago.

Publications

Rodrigues, J. (Submitted) A Bayesian Approach to Conflicting Input-Output Data. *Economic Systems Research*.

Rodrigues, J., Marques, A., Domingos, T. (2010) *Carbon responsibility and embodied emissions: Theory and Measurement*. Routledge. Oxon, UK.

Rodrigues, J., Domingos, T. (2008) *Environmental responsibility: comparing two approaches*. *Ecological Economics*, 66: 533-546.

Rodrigues, J., Domingos, T. (2008) *Environmental responsibility: comments*. Ecological Economics, 66: 551.

Rodrigues, J. (2007) *How ants determine the number of potential recruits*. Ecological Modelling, 200: 384-392.

Rodrigues, J., Domingos, T., Schneider, F., Giljum, S., (2006) *Designing an indicator of environmental responsibility*. Ecological Economics, 59 (3): 256-266.

Rodrigues, J., Domingos, T., Conceição, P., Belbute, J. (2006) *Constraints on Dematerialisation and Allocation of Natural Capital along a Sustainable Growth Path: Reply to Jorge Ares*. Ecological Economics, 59 (3): 245-246.

Rodrigues, J., Domingos, T., Conceição, P., Belbute, J. (2005) *Constraints on Dematerialisation and Allocation of Natural Capital along a Sustainable Growth Path*. Ecological Economics, 54 (4): 382-396.

Rodrigues, J., Giljum S. (2005) *The accounting of indirect material requirements in material flow-based indicators*, The ICFAI Journal of Environmental Economics, III, 2: 51-69.

Rodrigues, J., Domingos, T. (2003) *The EKC and the Rebound Effect in a Microeconomic Model Subject to Physical Constraints*. Proceedings of the 3rd Biennial International Workshop - Advances in Energy Studies (Porto Venere, Italy, September 2002).

Rodrigues, J.F., Saramago, B., Fortes, M.A. (2001) *Apparent Contact Angle and Triple Line Tension of a Bubble on a Substrate*, Journal of Colloid and Interface Science, 239: 577-580.

Communications and conferences

A Bayesian Method to Reconcile Conflicting Input-Output Data at the GTAP Conference (Venice, 16-18 June 2011).

Member of the Scientific Committee of the GIRA 2010 Conference at ISCTE (Lisbon, 9-10 September 2010).

Embodied carbon emissions in a multi-regional input-output model at the ISIE Conference (Lisbon, 21-24 June 2009).

Accounting the estimation error of environmental multi-region input-output models at the IHOME Conference (Seville, 9-11 July 2008).

Environmental responsibility: comparing two approaches at the 16th International Input-Output Conference (Istanbul, 2-6 July 2007).

Designing an indicator of environmental responsibility at the 3rd World Conference of Environmental and Resource Economics (Kyoto, 3-7 July 2006).

Aggregation Error of I-O Indicators at the Biennial Conference of the ESEE (Lisbon, June 2005). (Poster)

Symposium: Theories and Methods in Nonlinear Population Dynamics (VU Amsterdam, 3-4 September 2004). (Participation)

Defining a fair indicator of environmental pressure at the 8th Biennial Conference of the ISEE (Montreal, 11-14 July 2004).

Network Dimension and the Topology of Life at the International Conference on Complex Systems (Boston, 16-21 May 2004)

Socio-economic Indicators of Material Requirements at the Quo Vadis MFA? Workshop (Wuppertal, 9-10 October 2003).

Modelling Irreversibility in Human-Nature Interactions at the 2nd Alcalá de Henares International Conference in Mathematical Ecology (Alcalá de Henares, 5-9 September 2003).

The EKC and the Rebound Effect in a Static Economy at the Frontiers 2: Biennial Conference of the ESEE (Tenerife, February 2003).

The EKC in a Static Economy Subject to Physical Constraints Proceedings of the 3rd Biennial International Workshop – Advances in Energy Studies (Porto Venere, Italy, September 2002).

Sustainable Development: Constraints on Dematerialisation and on the Allocation of Natural Capital at the 7th Biennial Conference of the ISEE (Sousse, March 2002).

Sustainable Development and Economic Growth – An ecological approach at the 6th National Ecology Meeting, organised by SPECO (Lisbon, November 2001).

Apparent Contact Angle and Triple Line Tension of a Bubble on a Substrate at the ECIS20001 – Conference XV (Coimbra, September 2001). (Poster)

Scholarships, Awards and Projects

Research Contract Ciência 2008 (5 years).

FCT post-doc grant SFRH/BPD/36136/2007 (3 years).

FCT doctoral grant SFRH/BD/9055/2002 (4 years).

Marie Curie fellowships at ULB (Brussels, April-September 2004) and at Keele University (October 2003-March 2004).

Three FCT *BIICs* (scientific research initiation scholarships) while undergraduate student at IST, supported by FCT.

Prémio CGD/UTL Jovens Investigadores (young researcher award) in 2009, in the area of Ecological Economics.

Diploma de Mérito (good student award) at IST in the years 1998/1999 and 2000/2001.

Participation in FCT projects POCTI/MGS/47731/2002, POCI/AMB/55701/2004 and PTDC/AMB/64762/2006.

Teaching and Supervision

Currently supervising Alexandra Marques, student from the MIT Portugal Programme at IST/IN+.

Course of Energy Management to the Master's Programme in Mechanical Engineering at IST (2010/2011 and 2011/2012).

Seminaries on Environmental IO Analysis to the Master's Programme in Design Engineering at IST/IN+ (2008/2009) and to the MIT-Portugal PhD Programme (2010/2011).