

Leonardo Rosado
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Academic Degrees

Graduation in **Environmental Engineering** 1993-1998, *New University of Lisbon / Science and Technology College, Portugal*. Final grade 16 out of 20 points.

MSc. in Engineering Design 2003-2007, *Technical University of Lisbon / Instituto Superior Técnico, Portugal*. Final grade Approved. Thesis title: Learning from Public Use Bicycle Case Studies to Identify Main Design Guidelines for a Municipal Sustainable Mobility programme. Supervisor: Paulo Ferrão (IST Portugal) and Co-supervisor: Jan Carel Diehl (TU Delft Netherlands)

PhD in Sustainable Energy Systems 2008-2012, *Technical University of Lisbon / Instituto Superior Técnico, Portugal*. Final grade Pass with merit. Thesis title: . Supervisor: Paulo Ferrão (IST Portugal), Co-supervisor: John Fernandez (MIT USA) and Co-supervisor: Samuel Niza (IST Portugal).

Activities

Chalmers University of Technology, Sweden, 2012- current
Post doc within Built Environment Area of Advance; Urban Metabolism Group placed at Water Environment Technology.

Technical University of Lisbon, Lisbon, Portugal 2004-2012
Researcher at IN+ Center for Innovation, Technology and Policy Research; Laboratory of Environmental Systems in the Department of Mechanical Engineering.

Technical University of Lisbon, Lisbon, Portugal 2002-2004
Researcher at the Research Group on Energy and Sustainable Development; Department of Mechanical Engineering.

CPADA (Environmental NGO), Lisbon, Portugal, 2002 – 2003
Consultant on Environmental Engineering.

New University of Lisbon, Lisbon, Portugal 2000-2002
Researcher; Urban Planning division in the Department of Environment.

Parque Expo, Lisbon, Portugal 1999-2000
Consultant for the Environmental Monitoring Plan; Department of Environment, Parque Expo.

Tutoring experience

Chalmers University of Technology, Department of Civil and Environmental Engineering

- **2012 masters course “Urban Metabolism”** - as lecturer and supervisor;

- **2012 masters course “Modelling and problem solving in civil engineering”** - as lecturer and supervisor.

Massachusetts Institute of Technology, Department of Architecture

- **2007 Ecologies of Construction course lectured by Prof. John Fernandez** - Invited lecturer to present the project “Matriz de Materiais de Lisboa”

Peer-reviewed articles in international journals

Kalmykova, Y. and **Rosado, L.** (2013) The changing Metabolism of Swedish cities: A time series analysis of the trends in material flows for Stockholm and Göteborg. *In preparation.*

Rosado, L., Niza, S., Ferrão, P. (2013) Prodchar: a database to support Material Flow Accounting studies. *In preparation.*

Rosado, L., Niza, S., Ferrão, P. (2013) A new method for urban material flow accounting: UMAN. A case study of the Lisbon Metropolitan Area. *Accepted to Journal of Industrial Ecology.*

Niza, S., **Rosado, L.**, Ferrão, P. (2009) Urban Metabolism: Methodological advances in Urban Material Flow Accounting based on the Lisbon case study. *Journal of Industrial Ecology.* 13 (3): 384-405.

Articles in regional or national journals

Melo, J.J., Grossinho, P., **Rosado, L.** and Garção, R. 1998. Instrumentos Financeiros aplicados ao Ordenamento do Território. *Anuário de Economia Portuguesa de 1998.* O Economista

Popular science articles / presentations

MIT-Portugal (2012). Student Profile : Leonardo Rosado, Sustainable Energy Systems (SES) <http://www.mitportugal.org/profiles/student-profile-leonardo-rosado-sustainable-energy-systems-ses.html> MIT-Portugal Program. Portugal.

Publico (2006) Investigadores portugueses inventam embalagem que se espalma para facilitar transporte. <http://www.publico.pt/sociedade/noticia/investigadores-portugueses-inventam-embalagem-que-se-espalma-para-facilitar-transporte-1252045> Newspaper O Público. Portugal.

Proceedings and other reports in languages of common international currency

Ferrão, P., Niza, S. & **Rosado, L.** (2007) Matriz dos Materiais de Lisboa. Lisboa E-Nova – Agência Municipal de Energia-Ambiente de Lisboa. Câmara Municipal de Lisboa. Março de 2007

Costa, I & **Rosado, L.** (2007). O Contributo de uma Bolsa de Resíduos - Estratégias de desenvolvimento da gestão de resíduos sólidos em Portugal in Seminários Desenvolvimento Sustentável / Inovação, págs 67-99 IST Press Lisboa

Presentations at conferences

Leonardo Rosado, (2012) Accounting material flows in Metropolitan Areas: a model for Urban Metabolism. Urban Futures: Reflections Post Rio +20. UNESCO, Man and the Biosphere Programme International Society for Industrial Ecology, Sustainable Urban Systems Section. Paris.

Leonardo Rosado, (2012) Methodological advances in urban material flow accounting: results from the Lisbon metropolitan area. Séminaire “Écologie territoriale” Paris, January 2012.

Leonardo Rosado, (2009). Urban MFA: activity sectors flows and spatial resolution. The case of the Lisbon’s Metropolitan Area. ISIE. Lisbon.

Rosado, L. (2008) Lisbon Case Study. Measuring the Embodied Energy in Household Goods. Conference and Exhibition on Urban Sustainable Mobility is possible now! ConAccount, Prague 2008.

Research & Development projects

Project “**MeSUR - Metrics framework for Urban Metabolism Sustainability**”, Science and Technology Foundation (FCT), 2011-2012.

Project “**Resist - Supporting Urban RESilience through the management of urban Stock resources**”, Science and Technology Foundation (FCT), 2007-2012.

Project “**iTeam - integrated Transportation and Energy Activity-based Model**”, Science and Technology Foundation (FCT), 2009-2012.

Project “**Balanço de Materiais do Concelho de Lisboa**” (material Balance for the Lisbon Municipality) with Lisboa e-Nova, 2006-2007

Project “**DEUSA – Eixo II**” to develop an electric bicycle system for the Câmara Municipal de Almada (Almada municipality), 2004-2005

Project “**GreenPro**” preparation of 3 technical manual on bioenergy, solar thermal and solar photovoltaics energy, ALTENER Program, 2003-2004.

Project “**Territorialisation des Politiques Environnementales**”, Centre de Recherches Interdisciplinaires en Droit de L’Environnement, de L’Amenagement et de L’Urbanisme, 2001-2002.

Project “**Programa de Acção Estratégico para o Desenvolvimento Sustentável do Turismo de Lisboa**” (Strategic program of action for the Sustainable Development of Lisbon Tourism), Associação de Turismo de Lisboa (Lisbon Tourism Association), 2000-2002.

Prizes and awards

First Prize of the Prémio Inovação Ambiente (Environmental innovation Award), 2006. Díspar - Distribuição Participações, SGPS, S.A.

Second Prize Entrepreneurship contest Vector E, 2005. Technical University of Lisbon

InovLeiria Prize Categoria Ideia Inovadora (Best innovative idea), 2005. Associação Nacional de Jovens Empresários

Patents

n° PT 103419, Priority date: 12/01/2006. Quadro de bicicleta reversível adaptável a diferentes configurações a partir da disposição e montagem ordenada dos componentes (Reversible Bicycle frame adaptable to different configurations). Submitted by IST (Technical University of Lisbon). Inventors: Luís Silva; **Leonardo Rosado** and Gonçalo Crespo

n° PT 103419, Priority date: 17/08/2006. Método de redução e controlo ds tensões envolvidas na colapsibilidade de uma embalagem totalmente colapsável (Method for reduction and control of tensions involved in a collapsible package). Submitted and inventors: Luís Vargas; Ana Espada and **Leonardo Rosado**.