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## PERSONAL DATA

Birth date: January 10, 1964

Citizenship: Portugal

## EDUCATION and Scientific and Teaching Merits

- 12/2006 - *Mèrits de Recerca* (two Merits in Research) (01/01/1995 to 31/12/2000) and (01/01/2001 to 31/12/2006)  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 01/2006 - *Mèrits de Docència* (three Merits in Teaching) (04/01/1988 to 03/01/1993), (04/01/1993 to 11/09/1998) and (12/09/1998 to 11/09/2003)  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 10/2005 - *Certificació de l'activitat docent*  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 05/2004 - *Accreditació de Recerca* (Accreditation in Research)  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 08/1993 - Ph.D. in Operations Research, Cornell University, USA.  
Ph.D. Thesis Advisor: David Shmoys.  
Title homologations:
  - *Titulo homologado*, Universitat Pompeu Fabra, España (08.05.2006).
  - *Titulo reconocido*, Ministerio de Educación, Cultura y Deporte, España (21.02.2003).
  - *Titulo homologado*, University of Lisbon, Ministério de Educação, Portugal (22.02.1994).
- 01/1993 - M.S. in Operations Research, Cornell University, USA.
- 09/1991 - M.S. in Statistics and Operations Research, University of Lisbon, Portugal.
- 07/1987 - *Licenciatura* in Statistics and Operations Research, University of Lisbon, Portugal.

## RESEARCH INTERESTS

Supply Chain Management, Logistics, Production and Operations Management, Operations Research, Scheduling, Combinatorial Optimization, Metaheuristics and Heuristic Search Optimization.

UNESCO codes: 531107, 531109.

## EXPERIENCE AND JOB HISTORY

- 02/2005 to present - Associate Professor (*Professora Agregada*), Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- 01/1997 to 01/2005 - Assistant Professor (*Professor Visitant*), Department of Economics and Business, Universitat Pompeu Fabra, Spain.
  - In February 2002, I was evaluated by an internal committee at the Department of Economics and Business, Universitat Pompeu Fabra, and I was given a **tenure position**.
- 09/1996 to 04/1997 - Account Manager for Industrial Projects and Customers, AIS (Aplicaciones de Inteligencia Artificial), Spain (on leave from University of Lisbon).
- 01/1994 to 08/1997 - Assistant Professor, Department of Statistics and Operations Research, *Faculdade de Ciências*, University of Lisbon, Portugal.
- 10/1991 to 01/1994 - Teaching Assistant, Department of Statistics and Operations Research, *Faculdade de Ciências*, University of Lisbon, Portugal.
- 08/1989 to 12/1990 - Teaching Assistant, School of Operations Research and Industrial Engineering, Cornell University, USA
- 01/1988 to 09/1991 - Assistant, Department of Statistics and Operations Research, *Faculdade de Ciências*, University of Lisbon, Portugal

## PUBLICATIONS

### Refereed Journal

1. Giménez C. and **Lourenço H.R.** (2008), e-SCM: Internet's impact on Supply Chain Processes. International Journal of Logistics Management 19(3): (accepted for publication). ISSN 0957-4093. [link](#)
2. Fernandes, S. and **Lourenço H.R.** (2008). Optimised Search Heuristic Combining Valid Inequalities and Tabu Search. In *Hybrid Metaheuristics*, M.J. Blesa, C. Blum, C. Cotta, A.J. Fernández, J.E. Gallardo, A. Roli, M. Sampels (Eds.), Lecture Notes in Computer Science 5296: 87-101. ISBN: 978-3-540-88438-5. [link](#) \* ([pdf file](#))
3. Fernandes, S. and **Lourenço H.R.** (2007). A GRASP and branch-and-bound metaheuristic for the job-shop scheduling. *Evolutionary Computation in Combinatorial Optimization*, C. Cotta and J. Van Hemert (Eds.), Lecture Notes in Computer Science 4446: 60-71. ISBN 978-3-540-71614-3 [link](#) \* ([pdf file](#))
4. Pérez-Vázquez M.E., Gento-Municio A.G. and **Lourenço H.R.** (2007), Solving a Concrete Sleepers Production Scheduling by Genetic Algorithms. European Journal of Operational Research 179(3): 605-620. ISSN 0377-2217. [link](#) \* ([pdf file](#))
5. Colomé R., Serra D. and **Lourenço H.R.** (2003), A new chance-constrained maximum capture location problem. Annals of Operations Research 122 (1-4): 121-139. ISBN 0254-5330. [link](#) \* ([pdf file](#))
6. Finker M., Stützle T. and **Lourenço H.R.** (2002), Exploiting fitness distance correlation of set covering problems. In *Applications of Evolutionary Computing*, S. Cagnoni, J. Gottlieb, E. Hart, M. Middendorf, and G.R. Raidl (Eds.) Lecture Notes in Computer Science, 2279:61-71. ISBN 978-3-540-43432-0. [link](#) \* ([pdf file](#))
7. **Lourenço H.R.** and Serra D. (2002), Adaptive search heuristics for the generalized assignment problem. Mathware and Soft Computing 9(2-3): 209-234. ISSN 1134-5632 ([pdf file](#))
8. **Lourenço H.R.**, Paixão J.P. and Portugal R. (2001), Multiobjective metaheuristics for the bus-driver scheduling problem. Transportation Science 35(3): 331-343. ISSN: 00411655. [link](#) \* ([pdf file](#))
9. **Lourenço H.R.** and Bruno P.M. (1998), New ramification rules in a branch-and-bound method to solve the job-shop scheduling problem. Investigação Operacional (Journal of the Portuguese Operations Research Society) 18: 3-16. ISSN 0874-5161 [link](#) ([pdf file](#))
10. **Lourenço H.R.** (1996), Sevast'yanov algorithm for the flow-shop scheduling problem. European Journal of Operational Research 91(1): 176-189. ISSN 0377-2217 [link](#) \* ([pdf file](#))

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\* ISI Web of Knowledge

11. **Lourenço H.R.** (1995), Job-Shop Scheduling: computational study of local search and large-step optimization methods. European Journal of Operational Research **83**(2): 347-364. ISSN 0377-2217. [link](#) \* ([pdf file](#))
12. Bjrndal M.H., Caprara A., Cowling P.I., Della-Croce F., **Lourenço H.R.**, Malucelli F., Orman A.J., Pisinger D., Rego C. and Salazar J.J. (1995), Some thoughts on combinatorial optimization. European Journal of Operational Research **83**(2): 253-270. ISSN 0377-2217. [link](#) \* ([pdf file](#))
13. **Lourenço H.R.** (1987), The generation of topologies for the support of the MHS Network System. Investigação Operacional (Journal of the Portuguese Operations Research Society) 7: 79-86. ISSN 0874-5161

#### Refereed Book Chapters

14. Fernandes S. and **Lourenço H.R.** (2008), A Simple Optimized Search Heuristics for the Job-Shop Scheduling. In *Recent Advances in Evolutionary Computation for Combinatorial Optimization*, Studies in Computational Intelligence, C. Cotta and J. van Hemert (Eds.) 153:203-218. ISBN 978-3-540-70806-3. [link](#) ([pdf file](#))
15. **Lourenço H.R.** (2005), Logistics Management: an opportunity for Metaheuristics. In *Metaheuristics Optimization via Memory and Evolution*, C. Rego and B. Alidaee (eds.), Kluwer Academic Publishers, pp. 329-356. ISBN 978-1-4020-8134-7. [link](#) \* ([pdf file](#))
16. **Lourenço H.R.** (2005), e-logística. In *La logística empresarial en el nuevo milenio* (Business Logistics for the new millennium), Daniel Serra (editor), Gestión 2000, Barcelona, 2005. ISBN 84-8088-981-0. (in Spanish) [link](#) ([pdf file](#))
17. Soto J.P. and **Lourenço H.R.** (2004), Caso: La logística inversa en el sector editorial. In *Logística inversa y Medioambiente*, Díaz Fernández, B.A.; Alvarez, M.J. & Gonzalez, P. (authors), McGraw-Hill, 2004. ISBN 84-481-4180-6. (in Spanish) [link](#)
18. **Lourenço H.R.**, Martin O. and Stützle T. (2003), Iterated Local Search. In *Handbook of Metaheuristics*, F. Glover and G. Kochenberger, (eds.), Kluwer Academic Publishers, International Series in Operations Research & Management Science, pp. 321-353. ISBN 978-1-4020-7263-5. [link](#) \* ([pdf file](#))
19. Martí R., **Lourenço H.R.** and Laguna M. (2000), Assigning Proctors to Exams with Scatter Search. In *Computing Tools for Modeling, Optimization and Simulation*, M. Laguna and J.L. González Velarde (Eds.), Kluwer Academic Publishers, pp. 215-228. ISBN: 978-0-7923-7718-4. [link](#) ([pdf file](#))
20. **Lourenço H.R.**, Paixão J.P. and Portugal R. (2000), Geração de Serviços de Motoristas através de Metaheurística- Sistema GIST (The GIST system for public transportation: the bus-driver scheduling module), in *Casos de Aplicação da Investigação Operacional (Industrial Applications of Operations Research)*, L. Valadares Tavares and C. Henggeler Antunes (Eds.), McGraw-Hill, pp. 168-184. ISBN 972-773-075-2. (in Portuguese) ([pdf file](#))
21. **Lourenço H.R.** and Zwijnenburg M. (1996), Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem. In *Meta-Heuristics: Theory and Applications*, I.H. Osman and J.P. Kelly (Eds.), Kluwer Academic Publishers, pp. 219-236. ISBN: 978-0-7923-9700-7. [link](#) ([pdf file](#))

#### Refereed Conference Proceedings

22. Fernandes S. and **Lourenço H.R.** (2007), Hybrids Combining Local Search Heuristics with Exact Algorithms. In Proceeding of the V Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2007, F. Rodriguez, B. Mélian, J.A. Moreno, J.M. Moreno (Eds.) Tenerife, Spain, February 14-16, pp. 269-274. ISBN 978-84-690-3470-5. ([pdf file](#))
23. Fernandes S. and **Lourenço H.R.** (2007), A Simple Optimized Search Heuristic for the Job-Shop Scheduling Problem. In Proceeding of the V Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2007 F. Rodriguez, B. Mélian, J.A. Moreno, J.M. Moreno (Eds.) Tenerife, Spain, February 14-16, pp. 763-770. ISBN 978-84-690-3470-5. ([pdf file](#))
24. **Lourenço H.R.** (2005), Multiobjective metaheuristics for integrated logistics problems. In Proceeding of the CEDI'2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2005, G. Arenas, F. Herrera, M. Lozano, J.J. Merelo, G. Romero, A.M. Sánchez (Eds.) Granada, Spain, September 13-16, pp. 263-270. ISBN 84-9732-440-4. ([pdf file](#))

25. Soto J.P. and **Lourenço H.R.** (2005), An heuristic for the collaborative production planning model with returns. In Proceeding of the CEDI'2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2005, G. Arenas, F. Herrera, M. Lozano, J.J. Merelo, G. Romero, A.M. Sánchez (Eds.) Granada, Spain, September 13-16, pp. 297-304. ISBN 84-9732-440-4. ([pdf file](#))
26. Giménez C. and **Lourenço H.R.** (2005), A review on e-SCM topics. In Proceeding of the Decision Sciences Institute International Conference, IESE, Barcelona, Spain, July 3-6, pp. 805-815. ISBN 0-9667118-2-3. ([pdf file](#))
27. Ribeiro R. and **Lourenço H.R.** (2005), A new model and heuristic for a multi-period inventory-routing problem. In Proceeding of the Decision Sciences Institute International Conference, IESE, Barcelona, Spain, July 3-6, pp. 403-414. ISBN 0-9667118-2-3. ([pdf file](#))
28. Soto J.P., Giménez C. and **Lourenço H.R.** (2005), Reverse Logistics in the editorial sector: an exploratory study. In Proceeding of the 10<sup>th</sup> International Symposium on Logistics, Lisbon, Portugal, July 3-5, pp. 590-595. ISBN 0-85358-216-5.
29. Giménez C. and Lourenço H.R. (2004), e-Supply Chain Management: review, implications and directions for future research. In Proceeding of the EUROMA conference, INSEAD, Fontainebleau, 27-29 June, pp. 1021-1031. ISBN 2-9522210-0-6. ([pdf file](#))
30. **Lourenço H.R.** (2004), Enseñar metaheurísticas en Facultades o Departamentos de Economía y Empresa (Teaching Metaheuristics at Business and Economic Schools). In Proceedings of The Third Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms, MAEB'2004, C. Hervás, N. García, F.J.Martínez, D. Ortiz & S. Ventura (Eds) Córdoba, Spain, February 4-6, pp. 322-328. ISBN 84-688-4224-9. ([pdf file](#))
31. Soto J.P. and **Lourenço H.R.** (2003), A recoverable Production Planning Model. In Proceedings of XXVII Congreso SEIO de Estadística e Investigación Operativa. pp. 2731-2766, May. ([pdf file](#))
32. Ribeiro R. and **Lourenço H.R.** (2003), Inventory-Routing Problem, for a multi-period problem with stochastic and deterministic demand. In Proceedings of The Second Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms, MAEB'2003, Gijón, Spain, February 5-7, pp. 257-265. ISBN 84-607-65-26-1. ([pdf file](#))
33. **Lourenço H.R.** (2002), Heurísticas adaptativas para el problema de asignación generalizada (Adaptive heuristics for the generalized assignment problem). In Proceedings of The First Spanish Congress in Evolutive and Bioinspired Algorithms, Merida, Spain, February 6-7, pp. 267-257. ISBN 84-607-3913-9 ([pdf file](#))
34. Ribeiro R. and **Lourenço H.R.** (2001), A multi-objective model for a Multi-period Distribution Management Problem. In Proceeding of the First International Conference on Integrated Logistics, Singapore, pp. 463-471, August. ISBN: 981-04-4562-8. ([pdf file](#))
35. **Lourenço H.R.**, Martin O. and Stützle T. (2001), A beginner's introduction to Iterated Local Search. In Proceeding of the 4th Metaheuristics International Conference, Porto, Portugal, pp. 1-11. ([pdf file](#))

#### Working Papers (not published yet)

- **Lourenço H.R.**, Paixão J.P. and Portugal R. (2006), “*Driver Scheduling Problem Modelling*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 991. (Accepted for presentation at 10th International Conference on Computer-Aided Scheduling of Public Transport, Leeds, U.K., June 21 - 23, 2006) (Submitted to *Public Transport: Planning and Operations* ([link](#))). ([pdf file](#))
- Gimenez C., **Lourenço H.R.** and Soto J.P. (2005), “*Reverse Logistics in the Editorial Sector: an exploratory study*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 824. (Submitted to *Supply Chain Management: an international journal*) ([pdf file](#))
- **Lourenço H.R.** (2005), “*Teaching Metaheuristics in Business Schools*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 806. ([pdf file](#))
- Giménez, C. and **Lourenço, H.R.** (2004), “*e-Supply Chain Management: Review, Implications and Directions for Future Research*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 769. (Larger and more complete version that the one published in the Proceeding of the EUROMA conference). ([pdf file](#))

- Ribeiro R. and **Lourenço H.R.** (2003), “*Inventory-Routing Model for a Multi-Period with Stochastic and Deterministic Demand*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 725. ([pdf file](#))
- Ribeiro R. and **Lourenço H.R.** (2003), “*Multi-Period Vendor Managed Inventory System*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 724. ([pdf file](#))
- Ribeiro R. and **Lourenço H.R.** (2003), “*Strategies for an Integrated Distribution Problem*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 723. ([pdf file](#))
- Soto J.P. and **Lourenço H.R.** (2002), “*A Recoverable Production Planning Model*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 636. ([pdf file](#))
- **Lourenço H.R.**, Paixão J.P. and Portugal R. (2001), “*The crew-scheduling module in the GIST system*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 547. (English version of the chapter published in Industrial Applications of Operations Research, L. Valadares Tavares and C. Henggeler Antunes (eds.), McGraw-Hill, pp. 168-184 (2000)). ([pdf file](#))
- **Lourenço H.R.** (1998), “*A polynomial algorithm for a special case of the one-machine scheduling problem with time-lags*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 339. ([pdf file](#))
- Noivo J. and **Lourenço H.R.** (1998), “*Solving two production scheduling problems with sequence-dependent setup times*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 338. ([pdf file](#))
- **Lourenço H.R.** and Serra D. (2000), “*Métodos de solución de problemas de asignación de recursos sanitarios*”, (Adaptive heuristics for health resources assignment problems), Working Papers of the BBVA Foundation and CRES. ([pdf file](#))
- **Lourenço H.R.** (1994), “*The one-machine scheduling problem with lags*”, Operations Research Center Working Papers, n. 4/94, University of Lisbon, Portugal.

#### Ph.D. and Master’s Dissertations

- “*A computational study of the job-shop and flow-shop scheduling problems*”, Ph.D. dissertation, Cornell University, USA, August 1993.
- “*The job-shop and flow-shop scheduling problems: survey and computational experiment*”, Master of Science dissertation, University of Lisbon, Portugal, June 1991.

#### Other Publications

- “*Teaching Metaheuristics in Business Schools*” in AIRO News, IX, n.1, Spring 2004, pp. 4-7. ([pdf file](#))
- “*Iterated Local Search*” (with O. Martin and T. Stützle) in AIRO News VIII, n.3, Autumn 2003, pp. 11-14. ([pdf file](#))
- “*Nuevas Tendencias en Logística Inversa*” (New tendencies in Reverse Logistics) (with J.P. Soto). Dossier Especial Centro Español de Logística (eds.), Gestión de la cadena de suministro, Visión de Futuro. Barcelona, November 2003.
- “*e-logistics*”, in La Logística Empresarial a les portes del nou millenni (Business Logistics for the new millennium), Daniel Serra (editor), Fundación Empresa Ciencia, 2002.
- “*La contribución de la Investigación Operativa a la mejora de la eficiencia en el ámbito sanitario*”, (Operations Research contribution to efficiency improvement in health sector) (with D. Serra), Papeles de Economía, vol. 76, pp. 216-226, 1998.

#### RESEARCH IN PROGRESS

- Optimized Search Heuristics with Susana Fernandes (University of Algarve).
- Metaheuristics for single and multiobjective problems in Production and Logistics.
- Iterated Local Search methods for combinatorial optimization problems, with T. Stützle (TU Darmstadt, Germany).
- Supply Chain Management and Internet, with C. Giménez (ESADE, Spain).

- Optimization models and methods for distribution systems, with R. Ribeiro (Universidade Católica do Porto, Portugal).
- Metaheuristics for capacitated and threshold location problems, with D. Serra and R. Colomé (Universitat Pompeu Fabra, Spain).
- Metaheuristics for transportation planning, with R. Portugal and J.P. Paixão (University of Lisbon, Portugal).
- Production planning within a reverse logistics management, with J. Soto (Escuela Superior de Comercio Internacional, Spain) and C. Giménez (ESADE, Spain).

#### PEER REVIEWER

- INFORMS Journal on Computing, Annals of Operations Research, Management Science, Operations Research, Computational Optimization and Applications, European Journal of Operational Research, Journal of Heuristics, Journal of Scheduling, Journal of Metaheuristics, Omega-The International Journal of Management Science, Applied Soft Computing, Investigação Operacional and several Conference Proceedings.

#### FINANCED PROJECTS

- 2007 - 2009 - “Quantitative decision methods for logistics and operations management” (Métodos cuantitativos de decisión en entornos logísticos y productivos), Research Project, SEJ2006-12291/ECON, Ministerio de Educación y Ciencia Spain, Research director: Daniel Serra
- 2007 - 2008 - Location Network (Red Temática Localización y Problemas Afines) Referencia: MTM2007-30163-E. Ministerio de Educación y Ciencia, Spain, Research director: Alfredo Marín
- 2006 - 2007 - Location Network (Red Temática en Análisis de Localizaciones y sus Aplicaciones) Referencia: MTM2006-27490-E. Ministerio de Educación y Ciencia, Spain, Research director: Elena Fernández
- 2005 - 2006 - Seminario Hispano-Brasileño sobre Logística Ambiental, Research Project, PHD2005-0050-TA, Plan de Cooperación Interuniversitario con Brasil (BOE 26-5-2005), Spain, Research director: Belarmino Adenso Díaz
- 2004 - 2006 - “Quantitative decision methods for logistics and operations management” (Métodos cuantitativos de decisión en entornos logísticos y productivos), Research Project, SEC2003-01991/ECO, Spain, Research director: Daniel Serra
- 2004 - 2005 - “Metaheuristics Network” (Red Temática en Metaheurísticas). Research Project, HEUR TIN2004-20061-E, Ministerio de Educación y Ciencia, Spain, Research director: Rafael Martí
- 2005 - 2006 - Scheduling Network (Red Temática de Secuenciación de Trabajos) Referencia: DPI2004-20467-E. Ministerio de Educación y Ciencia, Spain, Research director: Jose Manuel Framiñan Torres
- 2005 - 2006 - Location Network (Red Temática en Análisis de Localizaciones y sus Aplicaciones) Referencia: MTM2005-24550-E. Ministerio de Educación y Ciencia, Spain, Research director: Elena Fernández
- 2004 - Reverse Logistics Network (Red Temática Española de Logística Inversa) Referencia: MEC-SEJ2004-20495-E. Ministerio de Educación y Ciencia, Spain, Research director: Adenso Díaz Fernández
- 2003-2004 - “Metaheuristics Network” (Red Temática en Metaheurísticas). Research Project, TIC2002-10886-E, Ministry of Science and Technology, Spain, Research director: Rafael Martí
- 2003 - UPF funded project “Innovació Docent” for the creation of web materials for the following courses: Commercial Distribution, Operations Management and Operations Research. Joint with Daniel Serra & Cristina Giménez.
- 2001 - 2003 - “Optimization Models for Resource Assignment in Logistics and Production Systems”,

- Research Project, BEC2000-1027, Spain, Research director: Daniel Serra
- 1998 - 1999 - “Optimization Models for Resource Assignment in Logistics and Production Systems”, Research Project, CICYT TAP98-0229, Spain, Research director: José Niño Mora
- 1996 - 1999 - “Combinatorial Optimization: Algorithmic Approaches to Large-Scale Optimization Models”, Research Project, FCT PRAXIS (/2/2.1MAT/139/94), Faculdade de Ciência, Universidade de Lisboa, Research director: José Pinto Paixão
- 1997 - 1998 - “Microeconomics Foundations of Macroeconomics Analysis: The Case of Labor Market”, Research Project, Universitat Pompeu Fabra, research director: Gilles Saint-Paul
- 1994 - 1996 - “Combinatorial Optimization Models: Applications and Extensions”, Research Project, Junta Nacional de Investigação Científica e Tecnológica - Programa STRIDE, Portugal, nº STRDA/C/CEG/426/92, research director: José Pinto Paixão
- 1986 - 1990 - “Topological Design of a Network”, Research Project and Development nº 809.86.148, Junta Nacional de Investigação Científica e Tecnológica, Portugal, research director: José Pinto Paixão
- 1986 - 1987 - “Algorithms to Design a Data Communication Network”, Internship (5º year of the Licenciatura Degree), PTT- Portugal Telecom

#### MEMBER OF THE RESEARCH CENTERS

- 2002 to present - *Grup de Recerca en Logística Empresarial* (Business Logistics Research Group) Institut d’Estudis Territorials, Universitat Pompeu Fabra, Spain.
- 1997 to present - *Grup de Recerca en Economia i Salut* (Center for Research in Health and Economics) Universitat Pompeu Fabra, Spain.
- 1994 to present - *Centro de Investigação Operacional* (Operations Research Center) University of Lisbon, Portugal.
- 1988 to 1993 - *Centro de Estatística e Aplicações* (Applied Statistics Center) University of Lisbon, Portugal.

#### TEACHING EXPERIENCE

- 1997 to present - Department of Economics and Business, Universitat Pompeu Fabra, Spain
- Operations Management (Full-time MBA)
  - Supply Chain Management (Full-time MBA)
  - Logistics (Masters and Ph.D. course)
  - Commercial Distribution (undergrad course)
  - Operations Research (undergrad course)
  - Production and Operations Management (undergrad course)
  - Organization and Methods (undergrad course)
  - Business Logistics (Summer course)
- 1997 to present - Institut de Educació Continua (IDEC), Universitat Pompeu Fabra, Spain.  
Collaboration in the following programs:
- Applied Economic Analysis (Masters)
  - Business Logistics (Masters)
  - Economy of Health and Sanitation Management (Masters)
  - International e-business (Masters)
  - Logistics Management (Masters)
  - Marketing (Masters and Executive Masters)
  - MBA Part-Time (Masters)
  - MBA Full-Time (Masters)
  - Business Management (University Postgraduate Diploma)
  - Property Planning and Administration (University Postgraduate Diploma)
  - Business with Latin America (University Postgraduate Diploma)

- 1998 to 1999 - Escola Universitària d'Estudis Empresarials del Maresme, Spain.
- Operations Research (undergrad course)
- 1997 - Department of Statistics and Operations Research, Faculdade de Ciências, University of Lisbon, Portugal (Invited).
- Operations Research Models (Masters course)
- 1996 to 2002 - Centro Español de Logística (Spanish Logistics Society). Teaching the following courses of the APICS and ELA International Programs:
- Material Requirements Planning (MRP)
  - Resource Planning
  - Transportation Management
  - Vehicle Routing
- 1988 to 1996 - Department of Statistics and Operations Research, Faculdade de Ciências, University of Lisbon, Portugal.
- Combinatorial Models (Masters course)
  - Heuristics Techniques (Masters course)
  - Operations Research Models (Masters course)
  - Combinatorial Optimization (undergrad course)
  - Introduction to Operations Research (undergrad course)
  - Operations Research Project (undergrad course)
- 1994 to 1996 - Department of Marketing, ISLA (Instituto Superior de Línguas e Administração), Lisboa, Lisbon, Portugal.
- Introduction to Operations Research (undergrad course)
  - Operations Management (undergrad course)
- 1994 to 1995 - Mathematics Department, Universidade da Madeira, Funchal, Portugal (Invited)
- Combinatorial Optimization (undergrad course)
- 1989 to 1991 - School of Operations Research and Industrial Engineering, Cornell University, USA. Teaching Assistant.
- Graph Theory and Network Flows (Ph.D. course)
  - Discrete Optimization (undergrad course)
  - Optimization I (undergrad course)
- 1995 to present - Courses “in-company” in the following companies:
- Banco Sabadell, Spain
  - Caixa de Manresa, Spain
  - CINESA, Spain
  - DAMM, Spain
  - Danone, Spain
  - EDP, Portugal
  - Navision, Spain

#### CONFERENCES AND UNIVERSITY TALKS

- “*Optimized Search Heuristics – A survey*” in **Optimization 2007**, Porto, Portugal, July 22-25, 2007. (invited presentation) ([Program Committee](#))
- “*GRASP and Branch and Bound - A Simple Hybrid Metaheuristic for the Job-Shop Scheduling Problem*” in **The 7<sup>th</sup> European Conference on Evolutionary Computation in Combinatorial Optimization (EvoCOP2007)**, Valencia, Spain.
- “*Hybrids combining Local Search Heuristics with Exact Algorithm*” in **V Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'07)**, Puerto de La Cruz, Tenerife, Spain. (invited presentation) ([Program Committee](#))
- “*A heuristic for the collaborative Production Planning Model with returns*” in **EURO 2006**, Reijkavik, Iceland, July 2-5, 2006. (invited presentation)

- “*La logística inversa en el sector editorial*”, **Simposium de Logística Inversa**, Fundación Escuela de Negocios de Asturias, Gijón, Spain, May 18, 2006 (invited presentation)
- “*Multiobjective metaheuristics for integrated logistics problems*”, **CEDI’2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB’2005**, Granada, Spain, September 13-16, 2005. ([Program Committee](#))
- “*An heuristic for the collaborative production planning model with returns*”, **CEDI’2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB’2005**, Granada, Spain, September 13-16, 2005. ([Program Committee](#))
- “*A review on e-SCM topics*”, **Decision Sciences Institute International Conference, IESE**, Barcelona, Spain, July 3-6, 2005.
- “*A new model and heuristic for a multi-period inventory-routing problem*”, **Decision Sciences Institute International Conference, IESE**, Barcelona, Spain, July 3-6, 2005.
- “*Enseñar metaheurísticas en Facultades o Departamentos de Economía y Empresa*” (Teaching Metaheuristics at Business and Economic Schools), **III Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados** (Third Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms), Córdoba, Spain, February 4-6, 2004. ([Program Committee](#))
- “*Inventory-Routing Problem, for a multi-period problem with stochastic and deterministic demand*”, **II Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados** (Second Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms), Gijón, Spain, February 5-7, 2003. ([Program Committee](#))
- “*Inventory-routing model for a multi-period with stochastic and deterministic demand*”, **INFORMS Annual Meeting**, San Jose, California, U.S.A., November 17-20, 2002. ([Invited presentation](#))
- “*Adaptive heuristics for the generalized assignment problem*”, **I Congreso Español de Algoritmos Evolutivos y Bioinspirados** (First Spanish Congress in Evolutive and Bioinspired Algorithms), Merida, Spain, February 6-7, 2002. ([Program Committee](#)).
- “*A Multiobjective Model for a Multi-period Distribution Management Problem*”, **First International Conference on Integrated Logistics**, Singapore, August 22-24, 2001.
- “*A Beginner’s Introduction to Iterated Local Search*”, **4<sup>th</sup> Metaheuristics International Conference**, Porto, Portugal, July 16-20, 2001. ([Program Committee and Session Organizer](#)).
- “*A Multiobjective Model for a Multi-period Distribution Management Problem*”, **4<sup>th</sup> Metaheuristics International Conference**, Porto, Portugal, July 16-20, 2001. ([Program Committee and Session Organizer](#)).
- “*Supply Chain Management: an opportunity for metaheuristics*”, **International Conference on Adaptive Memory and Evolution: Tabu Search and Scatter Search**, Oxford, Mississippi, March 7-10, 2001. ([Invited presentation](#)).
- “*Multiobjectives metaheuristics for the bus-driver scheduling problem*”, **International Symposium on Mathematical Programming**, Atlanta, U.S.A., August 7-11, 2000. ([Invited presentation](#))
- “*Optimized search heuristics*”, **Computing in Economics and Finance**, Barcelona, Spain, July 6-8, 2000.
- “*Exam proctor assignment*”, **INFORMS Computing Society Conference**, Cancun, Mexico, January 5-7, 2000.
- “*A new heuristic for capacitated location problems*”, **3<sup>rd</sup> Metaheuristics Internation Conference**, Angra dos Reis, Brazil, July 19-23, 1999. ([Program Committee and Session Organizer](#)).
- “*Metaheuristics for the bus-driver scheduling problem*”, **INFORMS Fall Meeting**, Seattle, USA, October 25-28, 1998.
- “*Adaptive approach heuristics for the generalized assignment problem*”, **Optimization 98**, Coimbra, Portugal, July 20-22, 1998.
- “*Metaheuristics for set-covering problems related to bus-driver scheduling*”, **EURO XVI**, Brussels, Belgium, July 12-15, 1998.
- “*New branching scheme for the job-shop scheduling*”, **EURO XV / INFORMS XXXIV**, Barcelona, Spain, July, 14-17, 1997.
- “*Metaheuristics and lower bounds for the job-shop scheduling*”, Department of Economics and Management, **Universitat Pompeu Fabra**, Spain, February 20, 1997.

- “*Metaheuristics for the job-shop scheduling*”, invited lecture, **EAIA '96**, Advanced School on Artificial Intelligence, Monte Estoril, Portugal, October 7-11, 1996.
- “*Solving a timetabling application with tabu-search*”, **IFORS 96**, 14th Triennial Conference of the International Federation of Operational Research Societies, Vancouver, Canada, July 8-12, 1996. (Invited presentation)
- “*Solving a generalized job-shop with tabu-search*”, **7º Congresso da APDIO - IO'96**, Aveiro, Portugal, April 1-3, 1996. (Program Committee)
- “*Branching Rules to a new branch-and-bound for the job-shop scheduling*”, **7º Congresso da APDIO - IO'96**, Aveiro, Portugal, April 1-3, 1996. (Program Committee)
- “*Solving a generalized job-shop with tabu-search*”, **Young OR 9**, University of York, York, United Kingdom, March 25-27, 1996. (Program Committee and Session Organizer).
- “*Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem*”, **1<sup>st</sup> Metaheuristics International Conference**, Breckenridge, Colorado, USA, July 22-26, 1995.
- “*Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem*”, **Optimization 95**, Braga, Portugal, July 17-19, 1995.
- “*Application of large-step optimization and tabu-search methods to the job-shop scheduling problem*”, **EURO XIV**, Jerusalem, Israel, July, 3-6, 1995.
- “*Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem*”, **AI/OR Workshop**, Timberline Lodge, Oregon, USA, June 6-10, 1995.
- “*Simulated annealing techniques*”, **OR Seminar, ISCTE** (Instituto Superior de Ciências do Trabalho e da Empresa), invited, Lisboa, Portugal, May 31, 1995.
- “*The one-machine scheduling problem*”, invited, Computer Science Department, **Pisa University**, Italy, October 27, 1994.
- “*The one-machine scheduling problem with lags*”, **The 15th International Symposium on Mathematical Programming**, Ann Arbor, Michigan, USA, August 15-19, 1994.
- “*Local optimization and the job-shop scheduling problem*”, **X Euro Summer Institute**, Groupe HEC, Jouy-en-Josas, France, July 1-15, 1994. (National selection).
- “*Applications of large-step optimization and tabu search methods to the job-shop scheduling problem*”, **6º Congresso da APDIO - IO'94**, Braga, Portugal, March 28-30, 1994.
- “*The one-machine scheduling problem with lags*”, **6º Congresso da APDIO - IO'94**, Braga, Portugal, March 28-30, 1994.
- “*Local optimization and the job-shop scheduling problem*”, **4ª Conferência do CEMAPRE: Aplicações da Matemática à Economia e à Gestão**, Lisboa, Portugal, March 23-25, 1994.
- “*Local optimization and the job-shop scheduling problem*”, invited, Seminário Permanente de Investigação Operacional e Optimização, **CEMAPRE**, Management and Economics Institute, Technical University of Lisbon, Lisboa, Portugal, February 2, 1994.
- “*Local optimization and the job-shop scheduling problem*”, Seminários da Área de Investigação Operacional, **Department of Statistics and Operations Research**, University of Lisbon, Lisboa, Portugal, November 17, 1993.
- “*Sevast'yanov's algorithm and the flow-shop scheduling problem*”, **ORSA/TIMS Joint National Meeting**, Orlando, USA, April 26-29, 1992.
- “*The generation of topologies for the support of the MHS System Network*”, **EURO X**, Belgrado, Yugoslavia, June 27-30, 1990.
- “*Problemas e algoritmos no projecto da rede internodal de uma rede de comunicação de dados*”, **3º Congresso da APDIO**, Coimbra, Portugal, October 11-14, 1987.
- “*Geração de topologias da rede de suporte ao sistema MHS*”, **3º Congresso da APDIO**, Coimbra, Portugal, October 11-14, 1987.

**PROGRAM COMMITTEES**

- 07/2009 - Member of the Program Committee of the **The 9<sup>th</sup> Metaheuristics International Conference** (MIC'09), Hamburg, Germany.
- 07/2007 - Member of the Program Committee of the **Optimization International Conference** ([Optimization 2007](#)), Porto, Portugal.
- 06/2007 - Member of the Program Committee of the **The 7<sup>th</sup> Metaheuristics International Conference** ([MIC'07](#)), Montreal, Canada.
- 04/2007 - Member of the Program Committee of **The 7<sup>th</sup> European Conference on Evolutionary Computation in Combinatorial Optimization** ([EvoCOP2007](#)), Valencia, Spain.
- 02/2007 - Member of the Program Committee of **V Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms** (MAEB'07), Puerto de La Cruz, Tenerife, Spain.
- 04/2006 - Member of the Program Committee of **The 6<sup>th</sup> European Conference on Evolutionary Computation in Combinatorial Optimization** ([EvoCOP2006](#)), Budapest, Hungary.
- 07/2006 - Organizer of Invited Session in the field of Combinatorial Optimization (Heuristics and Metaheuristics) of **The 19<sup>th</sup> International Symposium on Mathematical Programming** (ISMP2006), Rio de Janeiro, Brazil.
- 09/2005 - Member of the Program Committee of **IV Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms** (MAEB'05), Granada, Spain.
- 08/2005 - Member of the Program Committee of **The 6<sup>th</sup> Metaheuristics International Conference** ([MIC'05](#)), Vienna, Austria.
- 02/2004 - Member of the Program Committee of **III Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms** (MAEB'04), Córdoba, Spain.
- 08/2003 - Member of the Program Committee of **The 5<sup>th</sup> Metaheuristics International Conference** ([MIC'03](#)), Kyoto, Japan.
- 02/2003 - Member of the Program Committee of **II Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms** (MAEB'03), Gijón, Spain.
- 02/2002 - Member of the Program Committee of **First Spanish Congress in Evolutive and Bioinspired Algorithms** (AEB'02), Mérida, Spain.
- 07/2001 - Member of the Program Committee of **The 4<sup>th</sup> Metaheuristics International Conference** (MIC'01), Porto, Portugal.
- 07/1999 - Member of the Program Committee of **The 3<sup>rd</sup> Metaheuristics International Conference** (MIC'99), Angra dos Reis, Rio de Janeiro, Brazil.
- 04/1996 - Member of the Program Committee of **7<sup>th</sup> Operations Research Conference** (IO'96), Aveiro, Portugal.
- 07/1988 - Member of the Organization Committee of the Sixth Euro Summer Institute "Decision Support System", Madeira, Portugal.

**THESIS ADVISOR****Ph.D.'s Dissertations**

- June 2009 - Clarisse Coelho — expected June 2009  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- June 2009 - Andriy Ivchenko — expected June 2009  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- September 2008 - José Fernando Alvarez  
Title: *Optimization Algorithms for Maritime Terminal and Fleet Management*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain

- March 2006 - Deolinda Maria Lopes Dias Rasteiro  
Title: *Optimização em redes com Parâmetros Aleatórios (Network Optimization with Random Parameters)*  
Mathematics Department, University of Aveiro, Portugal (co-adviser).
- February 2006 - Rita Portugal  
Title: *Novas abordagens para a Geração de Serviços de Pessoal Tripulante em Empresas de Transporte (A new approach for the Drivers Scheduling Problem in Transportation Companies)*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.  
(co-adviser with Prof. José Pinto Paixão)
- January 2006 - Juan Pablo Soto  
Title: *Reverse Logistics: Models and Applications*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- March 2004 - Rita Ribeiro  
Title: *Integrated distribution management problems: an optimization approach*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.

### Master's Dissertations

- June 2006 - Clarisse Coelho  
Title: *Supply Chain Structures for Electronic grocery*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- June 2006 - Andriy Ivchenko  
Title: *Making Better Decision with Decision Support Systems: Modeled vs. Non-Modeled Information-Logistics Perspective*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- June 2006 - José Fernando Alvarez  
Title: *An Algorithm for Efficient Ship Load Planning in a Terminal With Deep Blocks*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain
- June 2005 - Monique Mizrahi  
Title: *Heuristics for scheduling problems*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain
- December 2001 - Juan Pablo Soto  
Title: *A recoverable production planning model*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- November 2000 - Rita Ribeiro  
Title: *A multi-objective model for a multi-period distribution management problem*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- September 1998 - Rita Portugal  
Title: *Metaheuristics in transportation systems*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.
- February 1997 - João António dos Santos Noivo  
Title: *Study of two scheduling problems with setup times*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.
- September 1995 - Paula Marta Pereira Bruno  
Title: *Branch-and-bound for the job-shop scheduling problem*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.
- August 1994 - Michiel Zwijnenburg  
Title: *Local optimization to the job-shop scheduling based on tabu search and large-step techniques*  
University of Lisbon, Portugal, and Eramus University, The Netherlands.

**THESIS EXAMINATION BOARDS****Ph.D.'s Dissertations**

- March 2006 - Deolinda Maria Lopes Dias Rasteiro  
Title: *Optimização em redes com Parâmetros Aleatórios (Network Optimization with Random Parameters)*  
Mathematics Department, University of Aveiro, Portugal (co-adviser).
- September 2005 - Francisco Silva  
Title: *Queueing location models: Formulations and heuristics*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- December 2004 - Ana Maria Marques de Moura Gomes Viana  
Title: *Metaheuristics for The Unit Commitment Problem: The Constraint Oriented Neighborhood Search Strategy*  
Electrical Engineering School, University of Porto, Portugal.
- May 2002 - Rosa Colomé Perales  
Title: *Consumer Choice in Competitive Location Models*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- June 2000 - António Batel Anjo  
Title: *Simulated annealing controlled by entropy*  
Mathematics Department, University of Aveiro, Portugal.

**Master's Dissertations**

- February 1996 - Marco Paulo dos Santos Carrasco  
Title: *Neural networks for timetabling problem*  
Economics and Business Institute, Technical University of Lisbon, Portugal.
- January 1996 - Ana Maria Dias Madureira  
Title: *Metaheuristics for sequencing problems*  
Electrical Engineering School, University of Porto, Portugal.
- July 1994 - Fernando Jorge de Lyz Girou Rodrigues Catanas  
Title: *The crew rotation problem: a new solution method*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.

**SERVICE**

- 07/2008 to present - Avaluadora, L'Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR), Generalitat de Catalunya.
- 11/2006 to present - Membre assessor de la Comissió específica de Ciències Socials de la Comissió de Professorat Lector i Professorat Col.laborador, Agència per a la Qualitat del Sistema Universitari de Catalunya.
- 10/2008 to present - Job market reviewer. Recruiting of the Department of Economics and Business, Universitat Pompeu Fabra, Spain
- 10/2002 to 09/2007 - Vice-Dean (vice-decana) of Economics and Institutional Relations of the School of Economics and Business (Facultat de Ciències Econòmiques i Empresariales), Universitat Pompeu Fabra, Spain.
- 03/2006 - Membre assessor de la Comissió específica de Ciències Socials de la Comissió de Professorat Lector i Professorat Col.laborador, Agència per a la Qualitat del Sistema Universitari de Catalunya.
- 03/2005 - Teaching Evaluation Commission, Department of Economy and Business, Universitat Pompeu Fabra, Spain.
- 04/2004 - Teaching Evaluation Commission, Department of Economy and Business,

Universitat Pompeu Fabra, Spain.

- 01/2003 to 05/2004 - MBA Student Admissions and Evaluation Committee, Universitat Pompeu Fabra, Spain.
- 08/2003 to 10/2003 - Peer Reviewer for the Dutch Social Science Research Council, The Nederland.
- 03/2002 to 10/2002 - Sub-director of the Department of Economy and Business, Universitat Pompeu Fabra, Spain.
- 05/2002 to 07/2002 - Member of the Grant Review Committee, Ministry for Education, Italy.
- 12/2001 to 10/2002 - Member of the External Evaluation Committee for the Industrial Engineering and Management Program in Portuguese Universities. Invited by the Ministry of Education of the Portuguese Government.
- 10/2008 to 11/2000 - Academic coordinator of the undergraduate program “Business Logistics” at Escola Universitària d’Estudis Empresarials del Maresme, Spain. Nominated by Universitat Pompeu Fabra.
- 09/2000 to 09/2001 - Member of the Academics Commission (Comissió d’Ensenyament), Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- 01/1995 to 01/1997 - Vice-President of The Portuguese Operations Research Society (APDIO).

#### **OTHER ACTIVITIES AND MERITS**

- 2005/2006 - 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d’Empreses), Universitat Pompeu Fabra, Barcelona, Spain.
- 2004/2005 - 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d’Empreses), Universitat Pompeu Fabra, Barcelona, Spain.
- 2002/2003 - 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d’Empreses), Universitat Pompeu Fabra, Barcelona, Spain.
- 07/2004 - Positive valuation of the teaching activities (Informe favorable de l’actividad docent), Universitat Pompeu Fabra, Barcelona, Spain.
- 01/2001 - Attendance of the *E-Logistics Executive Conference* organized by Georgia Institute of Technology, Brussels, Belgium.
- 10/1998 - Invited by Fred Glover and Manuel Laguna for a short stay, Operations Management Group, Graduate School of Business Administration, University of Colorado, USA.
- 10/1994 - Invited by Federico Malluceli for a short stay, Computer Science Department, Pisa University, Pisa, Italy.

#### **ACADEMIC AWARDS**

- 01/1993 to 08/1993 - Fellowship from Luso-American Foundation, Lisbon, Portugal.
- 01/1990 to 12/1992 - Fellowship from Portuguese National Research Institute (*Junta Nacional de Investigação Científica e Tecnológica*), Lisbon, Portugal.
- 08/1989 to 12/1990 - Teaching Assistantship from Cornell University, USA.
- 01/1987 to 10/1988 - Fellowship from Portuguese National Research Institute (*Junta Nacional de Investigação Científica e Tecnológica*), Lisbon, Portugal.

## TEACHING and other COURSES

- 2008 - Jornadas de Gestión de proyectos Europeos de Investigación y Desarrollo. Institut d'Educació Continua, Universitat Pompeu Fabra. 7-8 July (15 hours)
- 2007 - II Workshop on Good Teaching (II Jornadas de Bones Pràctiques Acadèmiques a la UPF). PQE (Education Quality Program) Universitat Pompeu Fabra. 17-18, octubre (11 hours)
- 2007 - Introduction to Moodle, version 1.8). PQE (Education Quality Program) Universitat Pompeu Fabra. 19, June (2 hours)
- 2002 - How to use cases studies in class (Com pots utilitzar casos a l'aula). PQE (Education Quality Program) Universitat Pompeu Fabra. Teacher: Lucia Gil.
- 2002 - Using Power Point for Teaching (Com treure partit del Power Point en la Docència). PQE (Education Quality Program) Universitat Pompeu Fabra. Teacher: José Antonio Pascual.
- 2002 - Techniques for public speaking (Tècniques de presentació en públic). Educational Services (Serveis Formatius) Universitat Pompeu Fabra. Teacher: Albert Ribau de Syntagma.
- 2002 - Planning the teaching intervention (Planificació de la Intervenció Pedagògica). Educational Services (Serveis Formatius) Universitat Pompeu Fabra. Teacher: Lucia Gil.
- 1989 - The graduate teaching development workshop. Office of Instructional Support. Cornell University. USA.

## ASSOCIATIONS

- INFORMS - Institute for Operations Research and Management Science.  
[www.informs.org](http://www.informs.org)
- APDIO - Portuguese Operations Research Society. (Vice-president 1995-1997).  
[www.apdio.pt/](http://www.apdio.pt/)
- DSI - Decision Sciences Institute  
[www.decisionsciences.org/](http://www.decisionsciences.org/)
- POMS - The Production and Operations Management Society  
[www.poms.org/](http://www.poms.org/)
- CEL - Spanish Logistic Society  
[www.cel-logistica.org](http://www.cel-logistica.org)

## LANGUAGES

- Portuguese - Mother language.
- English - Very good oral, written and reading proficiency.
- Spanish - Very good oral, reading and written proficiency.
- Catalan - Good reading proficiency, fair oral and written proficiency.
- French - Fair reading proficiency, poor oral and written proficiency.

## INDEPENDENT CONSULTING

- 09/2003 - CINESA, "Forecast system for the number of spectators in movie theaters".
- 08/1998 - OPT (Planeamento e Optimização de Transportes, SA.), "Crew Planning in the GIST Transportation System".
- 09/1997 - CINESA, "Forecast system for the number of spectators in movie theaters".
- 06/1997 - DANONE, "Transportation Management and Vehicle Routing".
- 09/1997 - DAPSA, "Scheduling optimization of cardboard boxes production".
- 06/1997 - EDP (Portuguese National Electrical Company), "Project Management".