

Currículum Vitæ¹

Daniel Serra

Personal Data

Date of birth: August 8, 1960 in Barcelona
Current employer: Universitat Pompeu Fabra
Current position: Academic Director, UPF-Barcelona School of Management
Academic position: Professor of Management, UPF-BSM
e-mail: daniel.serra@upf.edu
personal web page: www.danielserra.eu
personal blog: www.dserraf.blogspot.com.es (in Spanish)

Main Research Interests

Logistics

- Location modelling. Fleet management. Supply chain management. Reverse logistics. Geographical Information Systems. Transportation.

Quantitative models for decision making

- Linear, integer and multiobjective programming. Metaheuristics. Network models. Queuing systems. Project management.

Health care management:

- Emergency systems. Queuing modelling. Health care services management. Transportation systems

Regional and urban economics

- Cost-benefit analysis, economic impact of large infrastructures, Financing of infrastructures, toll systems.
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Academic information:

Academic degrees:

- Bachelor in economics and business, Universitat Autònoma de Barcelona, 1984
 - Master in economics and systems analysis for public decision making, Withing School of Engineering, the Johns Hopkins University, 1987.
 - PhD, Withing School of Engineering, The Johns Hopkins University, 1989
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¹ Updated: 15/04/2014

Positions at Universitat Pompeu Fabra:

- Visiting professor, 1991-1993
- Assistant professor, 1993-1994
- Associate professor, 1994-2000
- Full Professor 2001-
- Vicerrector for economic affairs and infrastructure 2001-2013
- Academic Director, UPF-BSM and IDEC, 2013-

Competitive Research Projects

- Ministerio de Educación y Ciencia: ECO2009-11307: Métodos cuantitativos en producción y logística. Principal researcher (3 years)
- Ministerio de Educación y Ciencia: BEC2006-12291: Métodos cuantitativos en producción y logística. Principal researcher. (3 years)
- Ministerio de Ciencia y Tecnología: BEC2003-1991: Logística y modelos de producción. Principal researcher. (3 years)
- Ministerio de Ciencia y Tecnología: BEC2000-1027: Modelos de Optimización para la asignación de recursos en sistemas productivos. Principal researcher. (3 years)
- PROTRANS. Financed by the EC, 5th marc. together with Cranfield University (UK), PTV (D), ZLU (D), Linköping University (SE), Fraunhofer/IML (D), TU Berlin (D), NEI (NL), CH2MHill (ES), STRATEC (BE), Louis Berger Group (FR) and Buck Consultants International (NL).
- Ministerio de Educación y Ciencia: Globalog: Subproyecto Logística inversa. Principal researcher: Adenso Diaz (universidad de Oviedo).
- "Health sector reforms and impact upon patterns of utilization among vulnerable groups in three indian states", European C., Directorate General XII Science, Research and Development, 1997-2000
- "Location of emergency services in the presence of congestion", financed by the Centre de Recerca en Economia I Salut (UPF) and la Fundación BBV. 1996.
- "Financial contracts and market equilibrium con information assymetries", financed by DGICYT, PB95-0978 (Principal researcher: Xavier Freixas), 1996-1999.
- "Microeconomic analysis of individual agent's behaviour", financed by DGICYT, PB95-0980 (Principal researcher: Jaume Garcia), 1996-1999.
- "Deregulation effects on the location of bank branches in Spain" (with W. García-

Fontes), financed by Fundació BBV, 1994-1997.

- "Managed Competition in Spain, Where and How?", financed by Banco de España, 1995.
- "Public Capital, Infrastructure, and Growth". Financed by FEDER, 92.11.07.005. , 1993.
- "Dynamic models of strategic business behaviour", financed by DGICYT PB92-1037 (Ramon Marimon, Principal researcher), 1993-95.
- "Empirical Analysis of Unemployment in Spain: No stationarity, wage equations, and implications on savings.", financed DGICYT PB92-1036-C02-01 (Jaume Garcia, Principal researcher), 1993-95.
- "Mathematical models of health coverage with coherent criteria", Financed by "Escola d'Administració Pública de Catalunya". 1993.
- PhD Thesis, "Location and Districting of Hierarchical Facilities", financed by DGICYT (FISS), and the National Science Foundation (NSF, EEUU), 1986-88.

Publications

Scientific journals

1. Serra, D.: "Implementing Turf analysis through Binary Linear Programming", **Food Quality and Preference**, 28(1), 382-386, 2013.
2. Bosch, J. et al.: "El peso económico del deporte en Catalunya 2006". **Estudios de Economía Aplicada** 30, 655-682, 2012
3. Marianov, V. and D. Serra: "Location of Multiple-Server Common Service Centers or Public Facilities, for Minimizing General Congestion and Travel Cost Functions". **International Regional Science Review**, 34(3), 323-338, 2011.
4. Marianov, V. and D. Serra: "Median problems in networks". H.A .Eiselt and V. Marianov (eds): **Foundations of Location Theory**. Springer. 39-70, 2011.
5. Silva, F. and D. Serra: "Locating emergency services with priority rules: The Priority Queuing Covering Location Problem", **Journal of the Operational Research Society** 59, 2008, 1229-1238
6. Silva, F. and D. Serra: "A Capacitated Facility Location Problem with Constrained Backlogging Probabilities", **International Journal of Production Research**. Vol. 45, N 21, 2007, 5117-5134.
7. Serra, D.: Review of the book: Location Theory: A unified Approach, by S. Nickel & J. Puerto. **Journal of Regional Science** 47(4), 1026-1028, 2007
8. Silva, F. and D. Serra: "Incorporating waiting time in competitive location models: formulations and heuristics", **Network and Spatial Economics** 4(1),2007, 63-76.

9. ReVelle, C., Murray, A. and D. Serra: "Location models for ceding market share and shrinking services", **OMEGA, The international Journal of Management Science** 35(5), 2007
10. Colomé, R. Lourenço H and D. Serra, "A New Chance - Constrained Maximum Capture Location Problem", **Annals of Operations Research** 122, 2004, 121-139.
11. Marianov V. and D. Serra, "Location Models for Airline Hubs Behaving as M/D/c Queues", **Computers and Operations Research** 30, 2003, 983 - 1003
12. Lourenço H. and D. Serra, "Meta-heuristics for the Generalized Assignment Problem". In **Mathware & Soft Computing** 7, Special Issue on Ant Colony Optimization, 2000.
13. Marianov V. and D. Serra. "Location-Allocation of Single and Multiple-Server Service Centers with Constrained Queues or Waiting Times", **Annals of Operations Research** 111, 2002, 35-50.
14. Marianov V. and D. Serra: "Location models in the public sector", in Z. Drezner and H. Hamacher (eds.) **Facility Location: Applications and Theory**. New York: Springer, 2002, 119-144.
15. Colomé R. and D. Serra: "Consumer Choice and Competitive Location Models: Formulations and heuristics" **Papers in Regional Science**, 80(4), 2001, 425-438
16. Marianov V. and D. Serra, "Hierarchical location-allocation models for congested systems", **European Journal of Operational Research**, 135(1), 2001, 196-209
17. Serra D., ReVelle C. and K. Rosling, "Surviving in a competitive spatial market: The Threshold Capture Model". **Journal of Regional Science** 39(4), 637-652.
18. Serra D., Eiselt H., Laporte G. and C. ReVelle: "Market Capture Models under Various Customer Choice Rules". **Environment and Planning B**, 26(5), 1999, 141-150
19. Serra D. and C. ReVelle: "Competitive Location and Pricing on Networks" **Geographical Analysis**, 31(2), 1999, 109-129.
20. Carreras M. and D. Serra: "On Optimal Location with Threshold Requirements". **Socio-economic Planning Sciences: The International Journal of Public Sector Decision Making** 33(2), 1999, 91-103
21. Serra D. and V. Marianov: "The P-median Problem in a Changing Network: The Case of Barcelona" **Location Science** 6(1), 1998, 383-394
22. Marianov V., Serra D. and C. ReVelle: "Location of Hubs in a Competitive Environment" **European Journal of Operational Research**, 114, 1999, 363-371.
23. Marianov V. and D. Serra: "Probabilistic Maximal Covering Location-Allocation Models for Congested Systems", **Journal of Regional Science**, 38(3), 1998. 363-371.
24. Serra D. and H. Ramalhinho: "La contribución de la investigación operativa a la mejora de la eficiencia en el ámbito sanitario" **Papeles de Economía** 76, 1998,

216-227

25. Serra D., Ratick S. and C. ReVelle: "The Maximum Capture Problem with Uncertainty" **Environment & Planning B**, 23, 1996, 49-59.
26. Serra D.: "The Coherent Covering Location Problem". **Papers in Regional Science**, 75(1), 1996, 79-101.
27. Serra D. and C. ReVelle "Competitive Location in Discrete Space" en Z. Drezner (ed.): **Facility Location: A Survey of Applications and Methods**, Springer-Verlag, 1995.
28. Serra D. and C. ReVelle: "Market Capture by two Competitors: The Pre-emptive Capture Problem", **Journal of Regional Science** 34(4), 1994, 549-561
29. Serra D. and C. ReVelle: "The PQ-Median Problem: Location and Districting of Hierarchical Facilities, part II: Heuristic Solution Methods", **Location Science** 2(2), 1994, 63-82.
30. Serra D. and C. ReVelle: "The PQ-Median Problem: Location and Districting of Hierarchical Facilities", **Location Science** 1(4), 1993, 299-312.
31. Serra D. "La organización de los servicios de salud: una aproximación cuantitativa a la división territorial sanitaria de Barcelona". **Hacienda Pública Española** 1, serie monografías, 1993, 81-100
32. Serra D., Marianov V. and C. ReVelle: "The Hierarchical Maximum Capture Problem". **European Journal of Operational Research** 62(3), 1992, 58-69
33. ReVelle C. and D. Serra: "The Maximum Capture Problem including Relocation". **INFOR (Canadian Journal of Operations Research)** 29(2), 1991., 130-138.

Books

- Serra D.: **La Logística Empresarial en el Nuevo Milenio**. Gestión 2000, 2005
- Serra D.: **Métodos Cuantitativos para la toma de decisiones**. Gestion 2000, 2003
- Serra D. (ed): **La Logística Empresarial en el nou Mil·leni**. Fundació Ciencia Empresa. 2002.
- Serra D.: "El finançament de les infraestructures". IAE : **Planificació i gestió d'infraestructures**. Institut d'Estudis Autònoms, 2002.
- Serra D. : **Métodos Cuantitativos para la toma de decisiones; con aplicaciones en el ámbito sanitario**. Madrid: Documenta, Fundación BBV 1999.
- Serra D. "La distribución geográfica de los servicios: una aproximación basada en técnicas de optimización", en E. Albi, J. González-Páramo y G. López-Casasnovas: **Gestión Pública: Fundamentos, Técnicas y Casos**. Barcelona: Ariel Economía, 1998
- Serra D. "Estrategias de Localización de Servicios en Régimen de Competencia", en J. Puerto (ed.): **Lecturas en Teoría de Localización**, Ediciones de la Univ. de

Sevilla, 1996.

- Serra D. "Programació Lineal", in M. Borrell (ed.): **Matemàtiques I**. Barcelona: Edicions de la Universitat Oberta de Catalunya, 1995.
- García-Fontes W. and D. Serra "Capital Público, Infraestructura y Crecimiento", en A. De La Fuente (ed.): **Crecimiento y Convergencia Regional en España y Europa**, Barcelona: IAE, 1994.

Working papers and conference proceedings

- Duran-Carbó, S, ReVelle, C. and D. Serra: "Spatial expansion through mergers", 2006.
- Colome, R. y D. Serra, "Supermarket Key Attributes and Location Decisions: A Comparative Study between British and Spanish consumers", 2001 (submitted to Intl. Journal of Research in Marketing)
- Serra D. "Modelos de Localización de Servicios de Urgencias en Redes con Incertidumbre", **Documentos de Trabajo del BBV**, 1998.
- Marianov V. and D. Serra. "Modelos Probabilísticos de Localización de Sistemas de Urgencias", **Documentos de Trabajo del BBV**, 1998.
- Serra D. "Estrategias de Localización de Farmacias en Régimen de Competencia", "XIV Congreso de la Asociación de Economía de la Salud", 1994.
- Serra D. "Competencia Gestionada en España, Dónde y Cómo? Una Aproximación Metodológica". "XIII Congreso de la Asociación de Economía de la Salud", 1993.
- Serra D. "La división territorial sanitaria de Barcelona: una aproximación cuantitativa". "XII Congreso de la Asociación de Economía de la Salud", Madrid, 1992.
- Serra D. "La División Territorial Hospitalaria de Barcelona: Grandes Hospitales". "XIV Reunión de Estudios Regionales" 1988.
- Serra D. "Pricing Urban Transportation". Conference on Regional Development and Policy, Indiana University.

Conference presentations

- "Location of lottery retail stores: a consumer oriented approach". American Association of Geographers Meeting, New York, February 2012
- "From location modelling to reality: experiences, frustrations and successes". Reunión de la Red de Localización, Las Palmas, February 2011.
- "Locating lottery retail stores in Barcelona", EURO XXIV, Lisbon, February 2010
- "Location of warehouses with stochastic demand". LAND Workshop, Pucón, Chile, March 2009.

- “Location of lottery retail stores in Barcelona”, XIV European Working group in Location Decisions, Elche, June 2008, and INFORMS, Washington, October 2008.
- “A GIS-DSS for locating public and private services in Barcelona”, EURO XXI, Iceland, June 2006 and XIX Symposium in Mathematical Programming, Rio de Janeiro, August 2006
- “Locating Public Services in an Urban Setting”, II Conference on Urban Operations Research, Nagoya (Japan), August 2005
- “Location models for ceding market share and shrinking services”, International Symposium on Locational Decisions X, Sevilla, June 2005
- “The queue length capacitated facility location problem”, International Symposium on Locational Decisions X, Sevilla, June 2005
- “Incorporating Waiting Times in Competitive Location Models: Formulation and Heuristics, 50th NARSC, Philadelphia, (USA), November 2003.
- “Logistic Costs in Location Models” XII Euro Working Group on Locational Analysis, Corfú (Greece), May 2003
- “A Chance Constrained Maximum Location Problem” International Symposium on Locational Decisions IX, Fredericton (Canada), June 2002
- “Location of Multiple Server Common Service Centers or Public facilities” International Symposium on Locational Decisions IX, Fredericton (Canada), June 2002
- “Locating Emergency Services with Priority Rules: The Priority Queueing Maximal Covering Location Problem” International Symposium on Locational Decisions IX, Fredericton (Canada), June 2002
- “Consumer Choice and Competitive Location Models: Formulations and heuristics” XII Euro Working Group on Locational Analysis, December 2000
- “A new heuristic for capacitated location problems” International Symposium on Locational Decisions (ISOLDE) VII, Coimbra, June 1999
- “Hierarchical location-allocation models for congested systems” International Symposium on Locational Decisions (ISOLDE) VIII, Coimbra, June 1999
- “Location models for Airlines Hubs behaving as M/D/c Queues” International Symposium on Locational Decisions (ISOLDE) VIII, Coimbra, June 1999
- “Surviving in a Spatially Competitive Environment: The Threshold Capture Problem”, Institute for Operations Research and Management Science (INFORMS) International Meeting, Tel Aviv, Israel, June 1998.
- “Hierarchical Location-Allocation Models for Congested Systems”, INFORMS International Meeting, Tel Aviv, Israel, June 1998.
- “Competitive Prices and Location”, XXXVII Annual Congress of the North American Regional Association, Buffalo, November 1997
- “Surviving in a Spatially Competitive Environment: The Threshold Location Model”,

INFORMS-EURO Joint International Meeting, Barcelona, July 1997.

- "On Location and Spatial De-Regulation", INFORMS-EURO Joint International Meeting, Barcelona, July 1997.
- "Location of Hubs in a Competitive Environment" IFORS VII International Special Conference, Gothenburg, Sweden, June 1997
- "The Maximal Covering Location Problem for Congested Systems", XXXVI Annual Congress of the North American Regional Association, Washington, November 1996
- "Location of emergency services with queueing constraints", VII International Symposium on Locational Decisions (ISOLDE), Edmonton (Canada), June 1996.
- "Entry in a Competitive Spatial Market", Institute of Management Science and Operations Research INFORMS Spring 1996 meetings, Washington D.C., May 1996.
- "Location of Services in a Changing Network: The case of Barcelona", XXXV Annual Congress of the North American Regional Association, Cincinnati, November 1995
- "Competition in Discrete Space", IFORS summer meetings on Location Theory and Modelling, Tenerife, 1995.
- "Probabilistic Maximal Covering Location Models for Congested Systems", XXXIV Annual Congress of the North American Regional Association, Niagara Falls, November 1994.
- "Estrategias de Localización de Servicios con Competidores", Jornadas sobre Localización, Sevilla, June 1994.
- "Localización de Farmacias en Régimen de Competencia". XIV Jornadas de la Asociación Española de Economía de la Salud, Santiago de Compostela, June 1994.
- "Capturing Markets in Different Scenarios". Annual Conference of the Canadian Society of Operations Research (CORS) and Optimization Days, Montreal, June 1994, and XXXIV Annual Congress of the North American Regional Association, Niagara Falls, November 1994, and in "Seminari de Economia de La Empresa, Universitat Autònoma de Barcelona".
- "Discrete Competitive Location on Networks". VII meeting of the European Working Group on Location Decision (EWGLA), Brussels, May 1994.
- "Algunas Reflexiones sobre la Política Industrial Regional", III Jornadas Empresariales, Confederació d'Empresaris del Baix Llobregat, Sant Just Desvern, February 1994.
- "The Maximum Capture Problem with Uncertainty". XXXIII Annual Congress of the North American Regional Association, Houston, November 1993.
- "The Coherent Covering Location Problem". XXXIII Annual Congress of the North American Regional Association, Houston, November 1993.

- "Spatial Market Protection from Competitors in an Uncertain Environment". XXXIII Annual Congress of the North American Regional Association, Houston, november 1993.
- "The Pre-Emptive Capture Problem". VI International Symposium on Locational Decisions (ISOLDE), Chios and Lesvos, Greece, June 1994.
- "Heuristic Algorithms for the PQ-Median Problem". XXXII Annual Congress the North American Regional Association, North American Section Congress, Chicago, November 1992.
- "The PQ-Median Problem: Location and Districting of Hierarchical Facilities". IV World Congress of the Regional Science Association Palma de Mallorca, May 1992
- "Capturing Markets by Adding and Relocating Retail Facilities". XXX Annual Congress of the North American Regional Association, Toronto, November 1988.
- "Economic Aspects of Community Water Supply in Maryland". American Water Works Association, Chesapeake Section, September 1988.
- "The Organization of the Metropolitan Corporation of Barcelona". XI Maryland Urban Planners Association Meetings, Annapolis, Maryland, May 1986.

Research awards and grants

- Research fellowship, Center for Metropolitan Planning and Research, The Johns Hopkins University, 1985
- Fulbright/La Caixa 1985-1987.
- Fulbright Scholar, 1987-1990.
- Tuition Fellowship, Whiting School of Engineering, JHU, 1987-1990.

PhD thesis supervision:

“Queueing location models: Formulations and heuristics”, Francisco Silva, UPF, 2005

“Consumer Choice Models in Facility Location”, Rosa Colomé, Depto. de Economía y Empresa, UPF, 2002

"Tres Estudios en el ámbito de la Organización Industrial", Miquel Carreras, Depto. de Economía y Empresa, UPF., 1997.

Master thesis supervision:

“Un nuevo modelo para el diseño de una línea de producto a través del análisis TURF”, Ana Micalaef, Master en Economía Aplicada 2007.

“Localización “On-Line”, una herramienta para el soporte a la toma de decisiones”, Laura Marquez, Master en Economía Aplicada, 2007.

“Modelos de localización de supermercados”, Andrés Pérez, Master en Economía Aplicada, 2007.

“El problema de localización con cobertura máxima: El caso de Barcelona”, Lucía González Abuín, Master en Economía Aplicada, 2006.

“Diseño de líneas de metro en la Ciudad de México”, Bernardo Negrete, Master en Economía Aplicada, 2006.

“Localización óptima de centros educativos y sanitarios públicos en la zona fronteriza de la República Dominicana”, Elia María Guerrero Rodriguez, Master en Economía Aplicada, IDEC; 2005.

“Spatial markets through mergers”, Verónica Durán, Master de Economía Aplicada, IDEC, 2005.

“Estudis sobre el Servei Municipal de Grues de Barcelona”, Maria Garcés Gomila, Master de Economía Aplicada, IDEC, 1998.

“Gestión de Presupuestos Clínicos a Través de la Programación por Metas”, Esther Lafuente, Master en Economía de la Salud, UPF-UB, 1997.

“La Organización Territorial de los Servicios Sanitarios en Ourense”, Jesus Monedero, Master en Economía de la Salud, UPF-UB, 1997.

Doctoral exam board

“Optimization algorithms for maritime terminal and fleet management”, por José Alvarez, UPF, 2008.

“Uncertainty, Integration and Supply Flexibility”, por Elcio Mendoça Tachizawa, UPF, 2007

“Optimal solution methods for the hierarchical network design problem”, por Carlos Obreque, Universidad Católica de Chile, 2007

“Modelos y algoritmos de secuenciación en líneas de ensamble de productos mixtos”, por Jaime Cano Belmán, UPC, 2006.

“Novas abordagens para a geração de serviços para o pessoal tripulante em empresas de transporte”, por Rita Silvério Marini Portugal, Universidad de Lisboa, 2005.

“Reverse Logistics: Models and Applications”, por Juan Pablo Soto Zuluaga, UPF, 2005

“Design of Homogeneous Territorial Units: A Methodological Proposal and Applications”, por Juan Carlos Duque, Universidad de Barcelona, 2004.

“Integrated Distribution Management Problems: An Optimization Approach”, por Rita Ribeiro. UPF, 2004

“Análise e Modelização de Problemas de Localização-distribuição”, por Sergio Dos Santos Barreto, Universidade de Aveiro, 2004

- “An analysis of Urban Growth Controls through game theory and the Contingent Valuation Method”, por Dolores García, Universidad Autónoma de Barcelona, 2002
- “Estrategias de Localización de Centros de Servicio o Actividad Económica en Redes de Transporte”, por María Dolores García Pérez. Universidad de Murcia, 2001
- “Algorithmic Approaches for the Single Source Capacitated Plant Location Problem”, por Juan Antonio Díaz García. Universitat Politècnica de Catalunya, 2001
- “Nuevos Modelos Probabilísticos de Localización de Servicios de Emergencias”, por Fernando Borrás Rocher. Universidad Miguel Hernández, Elche, 2000.
- “Asignación de Conductores a Jornadas de Trabajo en Empresas de Transporte Colectivo”, por Carmen Esclapés. Universitat Politècnica de Catalunya, 2000.
- “Instruments d’Anàlisi de la Sostenibilitat per a l’Ordenació del Territori”, por Josep Bernis, Universitat Politècnica de Catalunya, 2000.
- “La Remodelació Urbana de la Ciutat de Palma de Mallorca a la Dècada dels Noranta”, por Carme Ruiz Viñals. Universitat Pompeu Fabra, 1998.
- “Problemas de Localização e Distribuição Multicriterio”, de Carlos Manuel dos Santos Ferreira. Universidade de Aveiro, Portugal, 1997.
- “L’atenció Pneumològica i Cardiològica a l’Àrea Bàsica de Salut. Tipologia dels Pacients basada en els Episodis d’Atenció”, por Joan Sala Barbany, Universitat de Barcelona, 1993.
- “La Simulación como Herramienta de Gestión: Una Aplicación al Ámbito Sanitario”. Por Patricia Barber Pérez, Universidad de Las Palmas de Gran Canaria, 1993.

Professional and consulting activities

- Director, Instituto de Estudios Territoriales, UPF, 1994-2011
 - Gestión de un presupuesto de 1,5 millones de euros. Principal hito: realización del Pla Territorial Metropolità de Barcelona y los estudios de impacto económico de los seis planes territoriales de Catalunya.
- La demanda de lotería en España: un estudio territorial. Loterías y Apuestas del Estado (LAE).
- Impacto económico de las actividades turísticas de FGC, Ferrocarrils de la Generalitat de Catalunya.
- Los costes de la siniestralidad en Catalunya. Departament de Treball,
- Estudio sobre la logística de los almacenes de la LAE. Sistemas Técnicos de Lotería (STL)
- La logística de los servicios de extinción de incendios en Barcelona, financiado por

el Ayuntamiento de Barcelona

- Evaluación Económica de la red de Autopistas de Acceso a Buenos Aires, financiada por OCRABA (Organo de Control de la Red de Accesos a B.A.) y las empresas concesionarias
- El rescate de las concesiones de autopistas en Catalunya, Dept. de Política Territorial i Obres Públiques, Generalitat de Catalunya
- Logística de las Grúas de Barcelona, Financiado por el Ayuntamiento de Barcelona
- Asignación presupuestaria de los Centros de Atención Primaria de Barcelona, financiado por el Servei Català de Salut
- El impacto Económico del Cable en Catalunya, financiado por Cable y Televisión de Catalunya
- “El impacto económico de las inversiones en infraestructura realizadas por la Generalitat de Catalunya”, financiado por la Generalitat de Catalunya
- Jefe del departamento de Costes y Precios, Duratex S.A., 1989-1992 (Facturación anual 300 millones de dólares), sector de la construcción. Encargado de asesorar a la dirección temas logísticos y de fijación de precios. Supervisión de 8 economistas.
- Consultor en la Users Support Clinic (USC) de la Johns Hopkins University en el IBM 9030-E600 super-computer de CNSF (Cornell’s National Supercomputing Facilities) y mainframes IBM 3081 (VM/CMS) y VAX/VMS 8600. 1988.
- Estudio sobre la situación financiera de las empresas abastecedoras de aguas en Maryland (EEUU) per el Department of State Planning de Maryland. 1987.

Other research activities

- Manager of competitive research projects in Management, Spanish Ministry of Science and Research, 2001-2004
- Referee for the following spanish accreditation agencies MEC, ANECA, AGAUR, AQU, ANEP
- Journal Editorial boards
 - International Journal of Regional Science (2009-)
 - Geographical Analysis (2008-)
 - Socioeconomic Planning Sciences: The International Journal of Public Sector Decision Making (Elsevier) (2000-2004)
 - Supply Chain Practice (Cranfield U.). (2003-)
 - International Journal of Operations Research and Information Systems
- Peer reviewer: Journal of Regional Science, Location Science, Papers in Regional Science, Town Planning Review, Investigaciones Económicas, Revista Española de Economía, European Journal of Operational Research, Operations Research,

Annals of Operations Research, Studies in Locational Analysis, TOP, IEEE and may others...

- President of the Catalan Regional Science Association
- Vicepresident of the Catalan Regional Science Association (2008-2012)
- President of the scientific committee of the European Regional Science Association Conference, Barcelona 2010.
- Organizer, XII European Working Group on Location Analysis 2000 (EWGLA), Barcelona
- Organizer of 5 sessions about "Location Theory and Modelling" "XXXVII Annual Congress of the North American Regional Science Association", Buffalo, 1997.
- Treasurer , "Societat Catalana d'Ordenació del Territori", Institut d'Estudis Catalans, 1993-1996.
- Miembro del Patronato del Parque Metropolitano de Collcerola, 1994-2004
- Research Fellow, Institute for Policy Studies, The Johns Hopkins University.
- Member of the Regional Science Association
- Member of the "Institute for Operations Research and the Management Sciences" (INFORMS).
- Treasurer , "Section on Location Analysis", INFORMS, 1994-1998.
- Researcher "Cornell's National Super-Computing Center" 1988.

Languages (full proficiency)

Spanish, english, french, portuguese and catalan