

Personal data

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Department: Statistics and Operations Research
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Education

Industrial Engineering: Technical University of Catalonia (UPC), 1987.
PhD in Statistics: University of Wisconsin, Madison, 1993.
Strategies for Response Surface and Bernoulli Bandits.
Adviser: Murray K. Clayton.

Positions

- Fulbright scholarship, U. of Wisconsin, Sept 1987 – Aug 1993
- Teaching Assistant, U. of Wisconsin, Sept 1990 – June 1991
- Res. Assist., Eng. Res. Cent. for Plasma Aided Manufact., UW, July 1991 – June 1993
- Teaching Staff, U. of Wisconsin, Sept 2010 – June 2011
- Assistant Professor, Department of Statistics and O.R., UPC, Oct 1993 – Aug 1995.
- Associate Professor, Department of Statistics and O.R., UPC, Aug 1995 – May 2008
- Full Professor, Department of Statistics and O.R., UPC, May 2008 – present
- Head of the Department of Statistics and O.R., UPC., September 2012 – present

Research interests

- Foundations of statistics
- Bayesian data analysis
- Ecological inference
- Probability models for discrete data
- Statistical analysis of data in political sciences, ecology and literature
- Design of experiments and sequential design of experiments

Courses taught

Undergraduate level: Introductory statistics in sociology, Introductory statistics in engineering, Industrial statistics, Applied linear modeling, Design and analysis of experiments, Statistics for actuaries, Data analysis in industry

Graduate level: Advanced statistical modeling, Bayesian statistics, Bayesian analysis, Model based design of experiments.

1 PUBLICATIONS

1.1 Articles in journals

1.

Authors: Ginebra, J. and Clayton, M.K.
Title: The response surface bandit
Journal: **Journal of the Royal Statistical Society, Serie B**
Date, Vol., Pag. **1995, 57, 771-784**

2.

Authors: Ginebra, J.
Title: Number theoretic methods in statistics (book review)
Journal: **Journal of the American Statistical Association**
Date, Vol., Pag. **1995, 55, 1134**

3.

Authors: Fernández, E., Ginebra, M.P., Boltong, M.G., Driessens, F.C.M., Ginebra, J., De Maeyer, E.A.P., and Planell, J.A.
Title: Kinetic study of the setting reaction of a calcium phosphate bone cement
Journal: **Journal of Biomedical Materials Research**
Date, Vol., Pag. **1996, 32, 367-374.**

5.

Authors: Ginebra, M.P., Fernández, E., Boltong, M.G., Driessens, F.C.M., Ginebra, J., De Maeyer, E.A.P., and Planell, J.A.
Title: Setting reaction and hardening of an apatitic calcium phosphate cement
Journal: **Journal of Dental Research**
Date, Vol., Pag. **1997, 76, 905-912.**

6.

Authors: Ginebra, J. and Clayton, M.K.
Title: On a theorem of Kelley
Journal: **Journal of Statistical Planning and Inference**
Date, Vol., Pag. **1997, 65, 191-201**

7.

Authors: Ginebra, J. and Sen, A.
Title: Minimax approach to accelerated life tests
Journal: **I.E.E.E. Transactions on Reliability**
Date, Vol., Pag. **1998, 47, 261-267**

8.

Authors: Ginebra, J. and Cabos, S.
Title: Statistical analysis of literary style. Approximation to the authorship of Tirant lo Blanc
Journal: **Afers**
Date, Vol., Pag, ISSN **1998, 29, 185-206, 0213-1471**

9.

Authors: Ginebra, J. and Clayton, M.K.
Title: Small sample performance of Bernoulli two-armed bandit Bayesian strategies
Journal: **Journal of Statistical Planning and Inference**
Date, Vol., Pag. **1999, 79, 107-122**

10.

Authors: Riba, A. and Ginebra, J.
Title: Richness of vocabulary and homogeneity of style in Tirant lo Blanc
Journal: **Revista de Catalunya**
Date, Vol., Pag., ISSN: **2000, 152, 99-119, 0213-1471**

11.

Authors: Gonzalez-Davila, E. and Ginebra, J.
Title: Bayesian heuristics for multiperiod control
Journal: **Journal of the American Statistical Association**
Date, Vol., Pag. **2001, 96, 1113-1121**

12.

Authors: Goel, P.K. and Ginebra, J.
Title: When is an experiment always better than another?
Journal: **Journal of the Royal Statistical Society, Serie D (The Statistician)**
Date, Vol., Pag. **2003, 52, 515-537**

13.

Authors: Ginebra, J.
Title: Two-armed bandit strategies that discount past and future
Journal: **Communications in Statistics, Simulation and Computation**
Date, Vol., Pag. **2004, 33, 609-619**

14.

Authors: Giron, J., Ginebra, J. and Riba, A.
Title: Bayesian analysis of a multinomial sequence and homogeneity of literary style
Journal: **The American Statistician**
Date, Vol., Pag. **2005, 59, 19-30**

15.

Authors: Riba, A. and Ginebra, J.
Title: Change-point estimation in a multinomial sequence and homogeneity of literary style
Journal: **Journal of Applied Statistics**
Date, Vol., Pag. **2005, 32, 61-74**

16.

Authors: Puig, X., Gispert, R. and Ginebra, J.
Title: Analysis of the temporal evolution of mortality through GLIM.
Journal: **Gaceta Sanitaria**
Date, Vol., Pag., ISSN: **2005, 19, 481-485, 0213-9111**

17.

Authors: Giron, F.J., Ginebra, J., and Riba, A.
Title: Literature and statistics: the authorship problem of Tirant lo Blanc
Journal: **Boletín de la Sociedad de Estadística e Investigación Operativa**
Date, Vol., Pag., ISSN: **2005, 21(3), 6-10, 1699-8871**

18.

Authors: Riba, A. and Ginebra, J.
Title: Diversity of vocabulary and homogeneity of literary style
Journal: **Journal of Applied Statistics**
Date, Vol., Pag. **2006, 33, 729-741**

19.

Authors: Puig, X., Gispert, R., Ginebra, J., and Bisbe, J.
Title: Mortality for stomach cancer in Catalonia; Spatial distribution and temporal evolution between 1986 y 2000.
Journal: **Medicina Clinica**
Date, Vol., Pag., ISSN: **2006, 126, 481-484, 0025-7753**

20.

Authors: Ginebra, J.
Title: On the measure of the information in a statistical experiment
Journal: **Bayesian Analysis**
Date, Vol., Pag. **2007, 2, 167-212**
Internet address: <http://ba.stat.cmu.edu>

21.

Authors: González-Dávila, E., Dorta-Guerra, R. and Ginebra, J.
Title: Simulation based designs for multiperiod control
Journal: **Computational Statistics and Data Analysis**
Date, Vol., Pag. **2007, 51, 6624-6641**

22.

Authors: Dorta-Guerra, R., González-Dávila, E. and Ginebra, J.
Title: On the information in two-level experiments
Journal: **Model Assisted Statistics and Applications**
Date, Vol., Pag., ISSN: **2007, 2, 173-187, 1574-1699**

23.

Authors: Martínez, J.M., Benach, J., Ginebra, J., Benavides, F.G. and Yutaka, Y..
Title: An integrated analysis of individual and aggregated health data; an estimating equation approach
Journal: **The International Journal of Biostatistics**
Date, Vol., Pag. **2007, 3, Article 10**
Internet address: <http://www.bepress.com/ijb/vol3/iss1/10>

24.

Authors: González-Dávila, E, Ginebra, J, and Dorta-Guerra, R.
Title: Sample size determination for 2^{k-r} experiments with a binomial response
Journal: **Journal of Applied Statistics**
Date, Vol., Pag. **2008, 35, 357-367**

25.

Authors: Dorta-Guerra, R., González-Dávila, E. and Ginebra, J.
Title: Two-level experiments for binary response data
Journal: **Computational Statistics and Data Analysis**
Date, Vol., Pag. **2008, 53, 196-208**

26.

Authors: Puig, X., Ginebra, J. and Perez-Casany, M.
Title: Extended truncated inverse Gaussian-Poisson model
Journal: **Statistical Modelling**
Date, Vol., Pag. **2009, 9, 151-171**

27.

Authors: Puig, X., Ginebra, J. and Font, M.
Title: The Sichel model and the mixing and truncation order
Journal: **Journal of Applied Statistics**
Date, Vol., Pag. **2010, 37, 1585-1603**

28.

Authors: Ginebra, J. and Puig, X.
Title: On the measure and estimation of evenness and diversity
Journal: **Computational Statistics and Data Analysis**
Date, Vol., Pag. **2010, , 54, 2187-2201.**

29.

Authors: Valero, J., Perez-Casany, M. and Ginebra, J.
Title: On zero-truncating and mixing Poisson distributions
Journal: **Advances in Applied Probability**
Date, Vol. Pag. **2010, 42, 1013-1027**

30.

Authors: Valero, J., Ginebra, J. and Perez-Casany, M.,
Title: Extended truncated Tweedie-Poisson model
Journal: **Methodology and Computing in Applied Probability**
Date, Vol. Pag **2012, 14(3):811-829.**

31.

Authors: Font, M., Puig, X. and Ginebra, J.
Title: Bayesian analysis of frequency count data
Journal: **Journal of Statistical Computation and Simulation**
Date, Vol. Pag. **2013, 83(2):229-246.**

32.

Authors: Valero, J., Perez-Casany, M. and Ginebra, J.
Title: On Poisson-stopped-sums that are mixed Poisson
Journal: **Statistics and Probability Letters**
Date, Vol. Pag. **2013, 83, 1830-1834.**

33.

Authors: Puig, X. and Ginebra, J.
Title: A Bayesian cluster analysis of election results
Journal: **Journal of Applied Statistics.**
Date, Vol. Pag. **2014, 41, 73-94**

34.

Authors: Puig, X. and Ginebra, J.
Title: A cluster analysis of vote transitions
Journal: **Computational Statistics and Data Analysis**
Date, Vol. Pag. **2014, 70, 328-344**

35.

Authors: Valero, J., Perez-Casany, M. and Ginebra, J.
Title: On left truncating and mixing Poisson distributions
Journal: **Communications in Statistics. Theory and Methods**
Date, Vol. Pag. **2014,**

36.

Authors: Perez-Casany, M., Ginebra, J. and Valero, J.,
Title: On recovering a mixed-Poisson distribution from its left truncated version
Journal: **Statistics and Probability Letters**
Date, Vol. Pag. **2014,**

37.

Authors: Puig, X. and Ginebra, J.
Title: Ecological inference and spatial variation of individual behavior: National divide and elections in Catalonia
Journal: **Geographical Analysis**
Date, Vol. Pag. **2014,**

1.2 Selected book chapters

1.

Authors: González, E. and Ginebra, J.
Chapter title: Simulation based designs for control that improve on certainty equivalence
Book title: Bayesian Methods with Applications to Science, Policy and Official Statistics
Editor: George, E.
Date, Pages: 2001, 185-194
Publish., ISBN: Eurostat, 92-894-1283-6

2.

Authors: González, E. and Ginebra, J.
Chapter title: Sequential designs based on credible regions
Book title: Advances of Methodological and Applied Aspects of Probability and Statistics
Editor: Balakrishnan, N.
Date, Pages: 2002, 413-423
Publish., ISBN: Taylor and Francis, 1-56032-980-7

3.

Authors: Riba, A. and Ginebra, J.
Chapter title: Diversity of vocabulary and homogeneity of style in Tirant lo Blanc
Book title: Les Poids des Mots: Journées Internationales d'Analyse Statistique des Données Textuelles, Vol. 2
Editor: Purnell, G., Fairon, C., Dister, A.
Date, Pages: 2004, 937-945
Publish., ISBN: Presses Universitaires de Louvain, 2-930344-50-4

4.

Authors: Dorta Guerra, R., González Dávila, E., and Ginebra, J.
Chapter title: Optimal 2^2 factorial designs for binary response data
Book title: Computational Statistics, COMPSTAT 2004
Date, Pages: 2004, 951-959
Publish., ISBN: Physica Verlag, 3-7908-1554-3

5.

Authors: Dorta-Guerra, R., González-Dávila, E. and Ginebra, J.
Chapter title: One-half fractions of a 2^3 experiment for the logistic model
Book title: MODA 8 – Advances in Model-Oriented Design and Analysis
Editor: Lopez-Fidalgo, J., Rodríguez-Díaz, J.M and Torsney, B.
Date, Pages: 2007, 41-48
Publish., ISBN: Physica Verlag, 978-3-7908-1951-9

2 PhD THESIS SUPERVISED

1.

Thesis title	Bayesian Heuristics for the Multiperiod Control Problem
Student	Enrique González
University	Universidad de La Laguna
Defense date	February, 2000

2.

Thesis title	Statistics and Homogeneity of Style in Tirant lo Blanc
Student	Alexandre Riba
University	Universitat Politècnica de Catalunya
Defense date	Noviembre 20th, 2002

3.

Thesis title	Response Surface Methodology under Logistic Models
Student	Arturo De Zan
University	Universitat Politècnica de Catalunya
Defense date	May 12th, 2006

4.

Thesis title	Optimal Factorial Designs for Binary Data (co-directed with E.González)
Student	Roberto Dorta
University	Universidad de La Laguna
Defense date	July 27th, 2006

5.

Thesis title	Discrete Data Analysis: Frequency of frequencies and Multinomial Data
Student	Xavier Puig
University	Universitat Politècnica de Catalunya
Defense date	December 18th, 2009

6.

Thesis title	Measure of the Information in an Experiment of the Exponential Family
Student	Lourdes Roderó De Lamo
University	Universitat Politècnica de Catalunya
Tent. defense date	June 25th, 2010

PhD thesis being supervised

7.

Thesis title	Bayesian Modelling of Literary Style
Student	Martí Font
University	Universitat Politècnica de Catalunya
Tent. defense date	December 2014

3 RESEARCH GRANTS AND CONSULTING

3.1 Research grants

1.

Project title: Statistical design of experiments and industrial research
Financing agency: Universitat Politècnica de Catalunya
Num. participants, period: 5, 09/1995 - 09/1998
Principal investigator: Josep Ginebra

2.

Project title: Interval censoring, use of covariates and missing data in survival models
Financing agency: Spanish Ministry of Education and Science
Num. participants, period: 4, 01/1995 - 12/1997
Principal investigator: Guadalupe Gomez

3.

Project title: Measure of statistical information and design of experiments
Financing agency: Spanish Ministry of Science and Technology
Num. participants, period: 7, 12/2001 – 12/2004
Principal investigator: Josep Ginebra

4.

Project title: Complex data analysis: Parametric methods, non-parametric methods and methods based in distances
Financing agency: Spanish Ministry of Education and Science
Num. participants, period: 12, 10/2006 - 10/2009
Principal investigator: Pedro Delicado

5.

Project title: Complex data analysis
Financing agency: Spanish Ministry of Science and Innovation
Num. participants, period: 14, 01/01/2010 – 30/06/2011
Principal investigator: Pedro Delicado

6.

Project title: Anàlisi de dades complexes
Financing agency: AGAUR, Generalitat de Catalunya
Num. participants, period: 16, 01/01/2009 – 31/12/2013
Principal investigator: Josep Ginebra

7.

Project title: Estadística y probabilidad orientada al análisis de datos discretos
Financing agency: Ministerio de Ciencia e Innovación
Num. participants, period: 6, 01/07/2011 – 30/06/2014
Principal investigator: Pedro Delicado

3.2 Consulting projects

1.

Project title: Forecasting of the electric demand
Company, period: FECSA, 02/1987-05/1987

2.

Project title: Design of a protocol to test new slot machines
Company, period: UNIDESA, 09/1994-06/1995

3.

Project title: Analysis of the evolution of water quality in the river bassins of Catalonia
Company, period: Agència Catalana de l'Aigua, 04/2001-10/2003

4.

Project title: Implementation of Six-sigma method. in a meat Company
Company, period: Espuña S.A., 09/2005-06/2006

5.

Project title: Design and analysis of experiments on seal leaks of pumps
Company, period: Bosch, 03/2006

6.

Project title: Statistical consulting service
Company, period: HP, 06/2006

7.

Project title: Statistical design and analysis to detect the change in the activity of supermarket customers
Company, period: Supermercats Bon Preu, 01/2008-12/2009

4 OTHER MERITS

4.1 Awards

- Winner of a prize awarded by the Catalan Industrial Engineering Association to the best final research project by a student getting his degree in 1986/87. As a research project I developed an expert system for time series analysis and forecasting.
- Top student in the 1987 industrial engineering class of ETSEIB, UPC
- Winner of the *Young Researchers Award*, awarded by the Board of Directors of the European Regional Section of the I.A.S.C for a paper presented in COMPSTAT 1996.

4.2 Research Centers Visited

1.

Center: American University
Locat., period: Washington DC, USA, 25/07/1987-15/08/1987 (3 weeks)

2.

Center Engineering Research Center for Plasma Aided Manufacturing
Locat., period: Madison, Wisconsin, USA, 07/1991-06/1993 (2 years)

3.

Center Center for Quality and Productivity Improvement
Locat., period: Madison, Wisconsin, USA, 08/1987-07/1991 and 08/1994 (4 years)

4.

Center Department of Mathematical Sciences, Oakland University
Locat., period: Oakland, Michigan, USA, 09/1994 (4 weeks)

5.

Center Institute Statistique de Louvain-la-Neuve
Locat., period: Louvain-la-Neuve, Belgique, November 1994 (4 weeks)

6.

Center Department of Statistics, University of Michigan, Ann Arbor
Locat., period: Ann Arbor, Michigan, USA, 2/10/1995 – 18/12/1995 (12 weeks)

7.

Center Department of Statistics, Ohio State University
Locat., period: Columbus, Ohio, USA
Periods 18/10/1996 –13/12/1996 (8 weeks), 3/10/1998 –14/12/1998 (9 weeks), 10/1999 –11/1999 (5 weeks) and 07/2000–01/2001(7 months)

8.

Center Department of Statistics, University of Wisconsin-Madison
Locat., period: Madison, Wisconsin, USA
Periods 09/2010-08/2011

4.3 Miscellaneous

- Head of the PhD program in Statistics and Operations Research of the Universitat Politècnica de Catalunya, July 2008 – July 2010. Member of the committee of this PhD program, July 2001-Present. Member of PhD committees in charge of judging 20 PhD theses
- Given talks at the Universities of Wisconsin, Oakland, Michigan, Louvain-la-neuve, Ohio State, Pompeu Fabra, Autònoma de Barcelona, Valencia, La Laguna, Carlos III and Juan Carlos I
- Refereed articles for: *Computational Statistics and Data Analysis*, *Statistics and Probability Letters*, *Journal of the American Statistical Association*, *Statistica Sinica*, *Test*, *Sequential Analysis*, *Statistics in Medicine*, *Biometrika*, *Journal of Statistical Planning and Inference*, *The American Statistician*, *Journal of the Royal Statistical Society Serie B*, *Acta Theoretica*, *Sort*.