

# Guadalupe Gómez Melis

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*CV-Sept2021*

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## Personal Information

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### Personal Data

Name: Gómez Melis  
First name: Guadalupe  
Date of birth: November 10, 1957  
Place of birth: Barcelona, Spain  
Nationality: Spanish

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### Education

May 1986 **Ph. D. in Statistics**, *Columbia University*, New York, USA.  
**Thesis Title:** "Estimation of the disease resistance function in survival sacrifice experiments".  
**Advisor:** John Van Ryzin.  
January 1985 **Master of Philosophy in Statistics**, *Columbia University*, New York, USA.  
May 1983 **Master of Arts in Statistics**, *Columbia University*, New York, USA.  
June 1980 **Bachelor in Mathematics (*Grado de Licenciatura*)**, *Universitat de Barcelona*, Grade: Excellent (Distinction).  
**Thesis title:** "Processos estocàstics estacionaris indexats per un grup localment compacte i abelià (Stationary stochastic processes indexed by a locally compact and abelian group)".  
**Advisor:** David Nualart.

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### Academic Appointments

Oct/2005– Full Professor (Catedràtica d'Universitat). Departament of Statistics and Operations Research. Universitat Politècnica de Catalunya-BarcelonaTech.  
Dec/1987–Sep/2005 Associate Professor (Professora Titular d'Universitat). Departament of Statistics and Operations Research. Universitat Politècnica de Catalunya-BarcelonaTech.  
Sep/1986–Jul/1987 Assistant Professor. Statistics Departament. Ohio State University, Columbus, Ohio (USA).  
Sep/1983–Jun/1986 Graduate Research Assistant. Statistics and Biostatistics Departament (joint appointment). Columbia University, NY (USA).  
Sep/1979–Aug/1982 Teaching Assistant. School of Mathematics. Universitat de Barcelona.

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### Professional societies

1984- American Statistical Association  
1985- International Biometric Society  
1988- Spanish Region International Biometric Society  
2010- Founding Member Societat Catalana d'Estadística  
2018- Caucus for Women in Statistics

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### Research Identifiers and interests

UPC Production <https://futur.upc.edu/GuadalupeGomezMelis>  
Research Group GRBIO <https://grbio.upc.edu/en>  
Network Group BIOSTATNET <https://www.biostatnet.com>  
ORCID 0000-0003-4252-4884  
Scopus Author ID 7202293533  
Research Interests: Survival Analysis: Complex censoring patterns. Multi-State Models. Goodness-of-fit tests  
Clinical Trials: Master Protocols. Composite endpoints. Joint tests Survival and Binary  
Survival Analysis and Omics Data  
Biostatistics for COVID-19 studies  
Statistics for AIDS Research  
Science Outreach

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## Teaching. Graduate Studies (since 2000)

- **Master's Degree in Statistics and Operations Research (MESIO UPC-UB).** Joint Master Universitat Politècnica de Catalunya-BarcelonaTech and Univesitat de Barcelona. In charge of the following courses since 2006-07: Lifetime Data Analysis, Advanced Topics in Survival Analysis, Advanced Statistical Inference, Management of Statistical Information
- **Doctorate Programme in Statistics and Operations Research.** Universitat Politècnica de Catalunya-BarcelonaTech. In charge of the following courses from 1989-90 to 2006-07. Survival Analysis, Methods for Interval Censored Data, Reliability, Advanced Topics in Reliability, Mathematical Statistics.

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## Supervision and Advisorship

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### Advisor of PhD Students

#### **Doctorate Programme Statistics and Operations Research (UPC)**

- Yovaninna Alarcón Soto. *Data Science in HIV. Statistical approaches for therapeutic HIV vaccine data.* International Doctorate. June 30, 2021. Co-adv: K. Langohr (UPC)..
- Marta Bofill Roig. *Statistical methods and software for clinical trials with binary and survival endpoints.* International Doctorate. Dec 22, 2020.
- Melissa Sharp. *The use of reporting guidelines as an educational intervention for teaching research methods and writing* Co-adv: D. Hren (Univ. Split). May 26, 2020. European Joint Doctorate. Double Doctorate in Epidemiology from University of Paris (Université de Paris) and University of Split (Sveučilište u Splitu)
- Moisés Gómez Mateu. *Composite endpoints in clinical trials. Computational tools, practical guidelines and methodological extensions.* June 30, 2016. Co-advisor: U.Dafni (Athens University)
- Núria Pérez Álvarez. *Economic evaluation in health research: cohort simulation and applications.* July 23, 2014. Co-advisor: R. Paredes (IRSI-Caixa and UAB).
- Lucas López Segovia. *Survival Data Analysis wiith Heavy-Censoring and Long-Term Survivors.* June 10, 2014. Co-advisor: A. Espinal (UAB).
- Jaime Abel Huertas. *Joint Modeling of Two Sequential Times to Event With Longitudinal Information.* November 3, 2011. Co-advisor: C. Serrat (UPC)
- Rosa Sobradelo Pérez. *Statistical methods applied to volcanology and volcanic hazard assessment.* European Doctorate. July 21, 2011. Co-advisor: J. Martí (Institute of Earth Sciences Jaume Almera, CSIC).
- Núria Porta Bleda. *Interval censored semicompeting risks data: a novel approach for modelling bladder cancer.* European Doctorate. July 27, 2010. Co-advisor: M.Luz Calle Rosingana (U. Vic).
- Ramon Oller i Piqué. *Survival analysis issues with interval censored data.* European Doctorate. June 31, 2006.
- Klaus Langohr. *Regression Models with an Interval-Censored Covariate.* European Doctorate. June 16, 2004.
- Rebekka Topp. *Regression and Residual Analysis with Interval-Censored Data'.* July 19, 2002. Co-advisor: Professor Siegfried Schach (University Dortmund, Germany).
- Carles Serrat Piè. *Study and Validation of Data Structures with Missing Values. Application to Survival Analysis.* European Doctorate. May 21, 2001.
- Maria Luz Calle Rosingana. *The Analysis of Interval-Censored Survival Data. From a Nonparametric Perspective to a Nonparametric Bayesian Approach.* February 27, 1997.

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### Thesis Advisor of Master Students

I have been the main advisor (or co-advisor) of 44 Master students from *Master Programme (or Licenciatura) in Statistics and Operations Research (MESIO UPC-UB)*. *Universitat Politècnica de Catalunya-BarcelonaTech and University of Barcelona.*

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## Grants

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### Grants. Principal Investigator (since 2000)

- 2020 PANDE-00148 . *DIVINE -Dynamic evaluation of COVID-19 clinical states and their prognostic factors to improve the intra-hospital patient management.* Agència de Gestió d'Ajuts Universitaris i de Recerca, Generalitat de Catalunya May 2021 – November 2022 Funding: 280.268,55€
- PID2019-104830RB-I00 (2020–24): *Statistical Methodologies for Clinical and Omics Data and their applications in Health Sciences.* Co-PI: A. Sánchez (UB). Ministerio de Ciencia e Innovación (MCIN). Funding: 160.809€
- 2017 SGR 622. *Research Group GRBIO: Biostatistics and Bioinformatics.* Departament d'Economia i Coneixement de la Generalitat de Catalunya. January 2017 – December 2020. Funding: 20.000€
- MTM2017-90568-REDT. *Biostatnet: Potenciando la excelencia investigadora nacional e internacional en Bioestadística.* Granted by Ministerio de Economía y Competitividad. PI: Carmen Cadarso Suárez. I am **Principal Investigator** of Node Catalunya-BIO. July 2018 - June 2020. Funding: 12.000€
- MTM2015-64465-C2-1-R. *Statistical methods for clinical trials, complex censoring schemes and integrative omics data analysis.* Ministerio de Ciencia e Innovación. January 2016- December 2019. Funding: 211.100€
- MTM2015-69068-REDT. *BIOSTATNET: Afrontando retos de investigacion bioestadística con proyeccion internacional* Granted by Ministerio de Economía y Competitividad. PI: Carmen Cadarso Suárez. I am **Principal Investigator** of Node Catalunya-BIO. January 2016 - December 2017. Funding: 44.000€
- 2014 SGR 464. Research Group in Biostatistics and Bioinformatics, GRBIO. Departament d'Economia i Coneixement. Generalitat de Catalunya. January 2014-December 2106. Funding: 63.000€
- MTM2012-38067-C02-00. *Inference for survival analysis and statistical genetics* and MTM2012-38067-C02-01 *Advanced methods in survival analysis: Clinical trials, longitudinal data and interval censoring.* Ministerio de Ciencia e Innovación. Joint project Universitat Politècnica de Catalunya-BarcelonaTech and Universitat de Vic. January 2013-December 2105. Funding: 110.715€
- MTM2011-15849-E. *Consolidation of network BIOSTATNET: new strategies for collaboration in research, transfer and training.* Granted by Ministerio de Economía y Competitividad. PI: Carmen Cadarso Suárez. I am **Principal Investigator** of Node Catalunya-BIO. June 2012 - May 2014.
- MTM2010-09213-E. BIOSTATNET (Spanish network of Biostatistics). PI: Carmen Cadarso Suárez. Ministerio de Ciencia e Innovación. I am the **Principal Investigator** of Node Catalunya-BIO. 2011-2012.
- CERMET (Facultat de Matemàtiques i Estadística) (joint with Dr. C. Brander, ICREA Senior Research Professor). *Ús de dades de cohorts per tal de identificar factors genètics, immunològics i virològics associats amb el control natural del HIV. Aplicació al disseny d'una vacuna per la SIDA.* Universitat Politècnica de Catalunya-BarcelonaTech. 2009-2011. Funding: 6148€
- MTM2008-06747 C02-00. *Advanved survival methods in statistical genetics* and MTM2008-06747 C02-01 *Multiple endpoint survival analysis with complex censoring patterns.* Ministerio de Ciencia e Innovación. Joint project Universitat Politècnica de Catalunya-BarcelonaTech and Universitat de Vic. January 2009 - December 2011. Funding: 110.715€
- MTM2005-0886. *Multivariant models for sequential survival times.* Ministerio de Educación y Ciencia. October 2005-October 2008. Funding: 35200 €.
- BFM2002-0027. *Survival analysis techniques with longitudinal covariates.* Ministerio de Ciencia y Tecnología. October 2002 -October 2005. Funding: 47840 €.

- o “Inferencia en análisis de la supervivencia con incompletitud en los datos: censura en un intervalo y valores no observados”. PB98–0919. Programa Sectorial de Promoción General del Conocimiento de la DGEIC. December 1999 -December 2002.

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## Grants. Selected Collaborations (since 2000)

- o H2020-676207-MIRROR-METHODS IN RESEARCH ON RESEARCH. Marie Slodowska Curie Action: Innovative Training Network: European Joint Doctorate European Commission. Directorate-General for Education and Culture March 2016-February 2020. PI: Isabelle Boutron (Univ. Paris-Descartes) and Erik Cobo (UPC). **I am member of the UPC research team.** Funding: 495.745,92 €
- o MDM 2014-0445. Unit of Excellence Maria de Maeztu awarded to BGSMath (Barcelona Graduate School of Mathematics). Ministerio de Economía y Competitividad. PI: Marc Noy. I am member of BGSMath and **Investigador Garante** (Normalized impact =3.17 in period 2008-2012) in the Maria de Maeztu application. July 2015-June 2019. Funding: 2.000.000 €
- o Member **Grupo Reconocido** de Modelización Estadística Multivariante y Computacional de la Generalitat de Catalunya. PI: Carles Cuadras. Expte: 2009 SGR 932. July 2009-December 2013
- o Grant AI24643. National Institute of Allergy and Infectious Diseases. PI: S. Lagakos, Department of Biostatistics, Harvard School of Public Health. I have collaborated within this grant in periods September 2008-February 2009, September 2002-February 2003.
- o Member research network MATHEMATICA (i-MATH). Consolider-Ingenio 2010.
- o CYTED XI.16. *Vida útil sensorial de alimentos*. Cooperación Iberoamericana. Ciencia y Tecnología para el Desarrollo. Cantidad otorgada: 80000 US\$. PI: Guillermo Hough. I was member of this network. November 2000 -November 2003.

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## Publications

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### Peer-reviewed papers in JCR

- [1] D. Pak, J. Liu, J. Ning, **G. Gómez Melis**, and Y. Shen. Analyzing left-truncated and right-censored infectious disease cohort data with interval-censored infection onset. *Statistics in Medicine*, 40(2):287–298, Jan 2021.
- [2] M. Bofill and **G Gómez Melis**. A class of two-sample nonparametric statistics for binary and time-to-event outcomes. *Statistical Methods in Medical Research*, in press, 2021.
- [3] M. Bofill, Y. Shen, and **G Gómez Melis**. Design of phase iii trials with long-term survival outcomes based on short-term binary results. *Statistics in Medicine*, 40:4122–4135, 2021.
- [4] J. Cortés, R.B. Geskus, K Kim, and **G Gómez Melis**. Using the geometric average hazard ratio in sample size calculation for time-to-event data with composite endpoints. *BMC medical research methodology*, 21:99–112, 2021.
- [5] R. Oller and **G. Gómez Melis**. A nonparametric test for the association between longitudinal covariates and censored survival data. *Biostatistics*, 21(4):727–742, Oct 2020.
- [6] D. Pak, K. Langohr, J. Ning, J. Cortes, **G. Gómez Melis**, and Y. Shen. Modeling the coronavirus disease 2019 incubation period: impact on quarantine policy. *Mathematics (Basel)*, 8(9):1631–1–1631–8, Sep 2020.
- [7] N. Stjepanovic, G. Villacampa, and **G. Gómez Melis**. Association of premenopausal risk-reducing salpingo-oophorectomy with breast cancer risk in brca1/2 mutation carriers: maximising bias-reduction. *European journal of cancer*, 132:53–60, Jun 2020.
- [8] B. Mothe, M. Rosas, P. Coll, C. Manzardo, M. Puertas, S. Morón, A. Llano, Y. Alarcón, **G. Gómez Melis**, and K. Langohr. Hivconsv vaccines and romidepsin in early-treated hiv-1-infected individuals: safety, immunogenicity and effect on the viral reservoir (study bcn02). *Frontiers in Immunology*, 11, May 2020.

- [9] Y. Alarcón-Soto, K. Langohr, C. Fehér, F. García, and **G. Gómez Melis**. Multiple imputation approach for interval-censored time to HIV RNA viral rebound within a mixed effects Cox model. *Biometrical Journal*, 61(2):299–318, 2019.
- [10] M. Bofill Roig and **G. Gómez Melis**. A new approach for sizing trials with composite binary endpoints using anticipated marginal values and accounting for the correlation between components. *Statistics in Medicine*, 38:1935–1956, 2019.
- [11] M.K. Sharp, L Bertizzolo, R. Rius, E. Wager, **G. Gómez**, and D. Hren. Using the STROBE statement: survey findings emphasized the role of journals in enforcing reporting guidelines. *Journal of Clinical Epidemiology*, 116:26–35, 2019.
- [12] M.K. Sharp, R. Tokalic, **G. Gómez**, E. Wager, D.G. Altman, and D. Hren. A cross-sectional bibliometric study showed suboptimal journal endorsement rates of STROBE and its extensions. *Journal of Clinical Epidemiology*, 107:42–50, 2019.
- [13] L. Garitta, K. Langohr, E. Elizagoyen, F. Gugole Ottaviano, **G. Gómez**, and G. Hough. Survival analysis model to estimate sensory shelf life with temperature and illumination as accelerating factors. *Food Quality and Preference*, 68:371–376, 2018.
- [14] Bofill Roig M. and **G. Gómez Melis**. Selection of composite binary endpoints in clinical trials. *Biometrical Journal*, 60(2):246–261, 2018.
- [15] E. Negredo, K. Langohr, A. Bonjoch, N. Pérez-Alvárez, C. Estany, J. Puig, J. Rosales, P. Echeverría, B. Clotet, and **G. Gómez Melis**. High risk and probability of progression to osteoporosis at 10 years in HIV-infected individuals: The role of PIs. *Journal of Antimicrobial Chemotherapy*, 73(9):2452–2459, 2018.
- [16] M. Ruiz-Riol, D. Berdnik, A. Llano, B. Mothe, C. Gálvez, S. Pérez-Alvarez, B. Oriol, A. Olvera, S. Silva, M. Meulbroek, F. Pujol, J. Coll, J. Martínez, C. Ganoza, J. Sánchez, **G. Gómez**, W. Coray, and C. Brander. Identification of interleukin-27 (IL-27)/IL- 27 receptor subunit alpha as a critical immune axis for in vivo HIV control. *Journal of virology*, 91(16):1–13, Aug 2017.
- [17] J.R. Marsal, I. Ferreira González, S. Bertrán, A. Ribera, G. Permanyer-Miralda, D. Garcia-Dorado, and **G. Gómez Melis**. The use of a binary composite endpoint and sample size requirement: influence of endpoints overlap. *American Journal of Epidemiology*, 185(9):832–841, Apr 2017.
- [18] C. Armero, C. Forné, M. Rué, A. Forte, H. Perpiñán, **G. Gómez Melis**, and M. Baré. An ordinal joint model for breast cancer. *Trends in Mathematics*, 7:9–13, 2017.
- [19] K. Langohr, N. Pérez-Alvarez, E. Negredo, A. Bonjoch, M. Rué, R. Geskus, and **G. Gómez**. A multi-state model for the progression to osteopenia and osteoporosis among HIV-infected patients. *Trends in Mathematics*, 7:41–45, 2017.
- [20] M.K. Sharp, A. Utrobia, **G. Gómez**, E. Cobo, E. Wager, and D. Hren. The STROBE extensions: Protocol for a qualitative assessment of content and a survey of endorsement. *BMJ Open*, 7(10), 2017.
- [21] C. Armero, C. Forné, M. Rué, A. Forte, H. Perpiñán, **G. Gómez Melis**, and M. Baré. Bayesian joint ordinal and survival modeling for breast cancer risk assessment. *Statistics in Medicine*, 35(28):5267–5282, Dec 2016.
- [22] **G. Gómez**, O. Plana, and U. Dafni. Selection of the primary end point in an observational cohort study. *Journal of epidemiology and community health*, 70(10):950–953, Apr 2016.
- [23] M. Gómez and **G. Gómez**. Comments on 'use of composite endpoints in clinical trials' by abdul j. sankoh, haihong li and ralph b. d'agostino, sr. *Statistics in Medicine*, 35(2):317–318, Jan 2016.

- [24] O. Plana-Ripoll and **G. Gómez**. Selecting the primary endpoint in a randomized clinical trial: the ARE method. *Journal of biopharmaceutical statistics*, 26(5):880–898, Jan 2016.
- [25] L. Garitta, K. Langohr, **G. Gómez**, G. Hough, and C. Beeren. Sensory cut-off point obtained from survival analysis statistics. *Food quality and preference*, 43:135–140, Jul 2015.
- [26] C. Serrat, M. Rué, C. Armero, X. Piulachs, H. Perpiñán, A. Forte, Á. Páez, and **G. Gómez**. Frequentist and bayesian approaches for a joint model for prostate cancer risk and longitudinal prostate-specific antigen data. *Journal of applied statistics*, 42(6):1223–1239, Jun 2015.
- [27] A. Olvera, S. Pérez-Alvarez, J. Ibarrodo, C. Ganoza, J. Lama, A. Lucchetti, S. Cate, W. H. Hildebrand, N. Bernard, **G. Gómez**, J. Sánchez, and C. Brander. The HLA-C\*04:01/KIR2DS4 gene combination and human leukocyte antigen alleles with high population frequency drive rate of HIV disease progression. *AIDS*, 29(5):507–517, Mar 2015.
- [28] S. Pérez-Alvarez, **G. Gómez**, and C. Brander. FARMS: a new algorithm for variable selection. *Biomed Research International*, 2015(ID 319797):1–11, Jan 2015.
- [29] K. Langohr and **G. Gómez**. Estimation and residual analysis with R for a linear regression model with an interval-censored covariate. *Biometrical journal*, 56(5):867–885, Aug 2014.
- [30] O. Plana, J. Olsen, P. Andersen, **G. Gómez**, S. Cnattingius, and J. Li. Prenatal exposure to maternal bereavement and childbirths in the offspring: a population-based cohort study. *PLoS one*, 9(7):e103353–1–e103353–8, Jul 2014.
- [31] **G. Gómez** and M. Gómez. The asymptotic relative efficiency and the ratio of sample sizes when testing two different null hypotheses. *SORT: statistics and operations research transactions*, 38(1):73–88, Jun 2014.
- [32] **G. Gómez** and C. Serrat. Correcting the bias due to dependent censoring of the survival estimator by conditioning. *Statistics*, 48(2):295–314, Feb 2014.
- [33] **G. Gómez Melis**, M. Gómez, and U. Dafni. Informed choice of composite end points in cardiovascular trials. *Circulation-Cardiovascular Quality and Outcomes*, 7(1):170–178, Jan 2014.
- [34] K. Langohr, **G. Gómez**, and G. Hough. Quantile estimation of the rejection distribution of food products integrating assessor values and interval-censored consumer data. *SORT: statistics and operations research transactions*, 37(2):175–188, Dec 2013.
- [35] **G. Gómez Melis** and S. Lagakos. Statistical considerations when using a composite endpoint for comparing treatment groups. *Statistics in Medicine*, 32(5):719–738, Jan 2013.
- [36] E. Negredo, A. Bonjoch, M. Gómez, C. Estany, J. Puig, N. Perez, J. Rosales, S. Di Gregorio, L. del Rio, **G. Gómez**, and B. Clotet. Time of progression to osteopenia/osteoporosis in chronically HIV-infected patients: screening DXA scan. *PLoS one*, 7(10):e46031–1–e46031–9, Oct 2012.
- [37] R. Oller and **G. Gómez Melis**. A generalized Fleming and Harrington's class of tests for interval-censored data. *Canadian Journal of Statistics. Revue Canadienne de Statistique*, 40(3):501–516, Sep 2012.
- [38] C. Flores, M. Rodríguez-Girondo, C. Cadarso, T. Kneib, **G. Gómez**, and L. Casanova. Flexible geoadditive survival analysis of non-hodgkin lymphoma in peru. *SORT: statistics and operations research transactions*, 36(2):221–230, Jun 2012.
- [39] N. Porta, M. Calle, N. Malats, and **G. Gómez**. A dynamic model for the risk of bladder cancer progression. *Statistics in medicine*, 31(3):287–300, Feb 2012.
- [40] B. Mothe, A. Llano, J. Ibarrodo, M. Daniels, C. Miranda, J. Zamarreño, V. Bach, R. Zuniga, S. Pérez-Alvarez, C. Berger, M. Puertas, J. Martínez-Picado, M. Rolland, M. Farfan, J. Szinger, W. H. Hildebrand, O. Yang, V. Sánchez-Merino, C. Brumme, Z. Brumme,

- D. Heckerman, T. Allen, J. Mullins, **G. Gómez**, P. Goulder, B. Walker, J. Gatell, B. Clotet, B. Korber, J. Sánchez, and C. Brander. Definition of the viral targets of protective HIV-1-specific T cell responses. *Journal of translational medicine*, 9(208):1–48, Dec 2011.
- [41] R. Sobradelo, J. Martí, A. Mendoza-Rosas, and **G. Gómez Melis**. Volcanic hazard assessment for the Canary Islands (Spain) using extreme value theory. *Natural hazards and earth system sciences*, 11(10):2741–2753, Jan 2011.
- [42] A. Bonjoch, M. Figueras, C. Estany, N. Perez, J. Rosales, L. del Rio, J. Puig, S. Di Gregorio, B. Clotet, **G. Gómez**, and E. Negredo. High prevalence of and progression to low bone mineral density in HIV-infected patients: a longitudinal cohort study. *AIDS*, 24(18):2827–2833, Nov 2010.
- [43] O. Julià De Ferran and **G. Gómez Melis**. Simultaneous marginal survival estimators when doubly censored data is present. *Lifetlme Data Analysis*, 17(3):347–372, Oct 2010.
- [44] J.A. Muñoz-Moreno, C.R. Fumaz, A. Prats, M. Ferrer, E. Negredo, N. Perez, J. Molto, **G. Gómez**, M. Garolera, and B. Clotet. Interruptions of antiretroviral therapy in human immunodeficiency virus infection: are they detrimental to neurocognitive functioning? *Journal of neurovirology*, 16(3):208–218, Jun 2010.
- [45] **G. Gómez**, M.L. Calle, R. Oller, and K. Langohr. Tutorial on methods for interval-censored data and their implementation in r. *Statistical Modeling*, 9(4):259–297, Dec 2009.
- [46] J.A. Muñoz-Moreno, C.R. Fumaz, A. Prats, M. Ferrer, E. Negredo, M. Garolera, N. Perez, J. Molto, **G. Gómez**, and B. Clotet. Nadir CD4 cell count predicts neurocognitive impairment in HIV-infected patients. *AIDS research and human retroviruses*, 24(10):1301–1307, Oct 2008.
- [47] C.R. Fumaz, J.A. Muñoz-Moreno, J. Molto, M. Ferrer, R. López-Blázquez, E. Negredo, Roger Paredes Deirós, **G. Gómez**, and B. Clotet. Sustained antiretroviral treatment adherence in survivors of the pre-HAART era: attitudes and beliefs. *AIDS care: psychological and socio-medical aspects of AIDS/HIV*, 20(7):796–805, Jan 2008.
- [48] A. Sánchez-Niubó, A. Domingo-Salvany, **G. Gómez**, and T. Scalia-Tomba. Dos métodos para analizar la evolución de la incidencia de consumo de heroína y cocaína en barcelona. *Gaceta sanitaria*, 21(5):397–403, Jul 2007.
- [49] C.R. Fumaz, J.A. Muñoz-Moreno, A. Ballesteros, Roger Paredes Deirós, M. Ferrer, A. Salas, D. Fuster, E. Masmitjà, N. Pérez-Alvarez, N. Perez, **G. Gómez**, C. Tural, and B. Clotet. Influence of the type of pegylated interferon on the onset of depressive and neuropsychiatric symptoms in HIV-HCV coinfecting patients. *AIDS care: psychological and socio-medical aspects of AIDS/HIV*, 19(1):138–145, Jan 2007.
- [50] R. Oller, **G. Gómez Melis**, and M. Calle. Interval censoring: identifiability and the constant sum property. *Biometrika*, 94(1):61–70, Jan 2007.
- [51] L. Ruiz, Roger Paredes Deirós, **G. Gómez Melis**, J. Romeu, P. Domingo, N. Pérez-Alvarez, N. Perez, G. Tambussi, J.M. Llibre, J. Martínez-Picado, F. Vidal, C.R. Fumaz, B. Clotet, and S. Tibet. Antiretroviral therapy interruption guided by CD4 cell counts and plasma HIV-1 RNA levels in chronically HIV-1-infected patients. *AIDS*, 21(2):169–178, Jan 2007.
- [52] C. Serrat and **G. Gómez**. Nonparametric bivariate estimation for successive survival times. *SORT: statistics and operations research transactions*, 31(1):75–96, Jan 2007.
- [53] G. Hough, L. Garitta, and **G. Gómez**. Sensory shelf life predictions by survival analysis accelerated storage models. *Food quality and preference*, 17(6):468–473, Sep 2006.
- [54] A. Salvador, P. Varela, S.M. Fiszman, and **G. Gómez**. Estimating the shelf life of brown pan bread, suitability of survival analysis methodology. *Journal of food science*, 71:321–325, May 2006.



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- [59] K. Langohr and **G. Gómez**. Likelihood maximization using web-based optimization tools: A short tutorial. *American Statistician*, 59(2):192–202, May 2005.
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- [86] **G. Gómez**. Processos estacionaris indexats per un grup localment compacte i abelià. *Publicacions de la secció de matemàtiques. Universitat Autònoma de Barcelona*, 22(1):143–146, Jan 1980.

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## Selected Books and Outreach since 2005

- [1] **G. Gómez Melis**, C. Arenas, J. Ocaña, Y. Alarcón-Soto, K. Langohr, and A. Miñarro. *L'alfabet de l'estadística. Un passeig il·lustrat amb científiques eminents*. Col·lecció Catalàsi. Universitat de Barcelona, 2020.
- [2] **G. Gómez** and C. Cadarso-Suárez. El modelo de riesgos proporcionales de cox y sus extensiones. impacto en estadística y biomedicina. *Gaceta RSME*, 20(3):513–538, 2017.
- [3] E. Ainsbury, M.L. Calle, E. Cardis, J. Einbeck, **G. Gómez**, and P. Puig, editors. *Extended Abstracts Fall 2015- Biomedical Big Data; Statistics for Low Dose Radiation Research*, volume 7 of *Trends in Mathematics (Series Editors: E. Ventura, A. Guillamon)*. Birkhäuser, 2016.
- [4] **G. Gómez**. L'estadística està de celebració. *Secció d'Opinió. El Periódico*, April 2013.
- [5] **G. Gómez**. Dades i rigor científic. *Biocat. www.biocat.cat/la-veu-dels-experts*, Sept 2012.
- [6] M. Bayarri, C. Cadarso, M. Durbán, **G. Gómez**, J. López, A. Martín, V. Nuñez, and P. Puig. Biostatnet: an interdisciplinary biostatistics network. *BEIO, Boletín de Estadística e Investigación Operativa*, 28(2):185–200, Jun 2012.
- [7] **G. Gómez** and P. Delicado. La estadística está de moda. *Informest. Boletín da SGAPEIO*, (35), 2012.
- [8] **G. Gómez**. La recerca en estadística a catalunya. cap 6.4. *Llibre blanc de la recerca matemàtica a Catalunya (Ed. M. Castellet, J. del Castillo, M. Mitjana, X. Jarque)*, 2010.
- [9] **G. Gómez** and M. Calle. A sampling-based chi-squared test for interval-censored data. In *Statistical Models and Methods for Biomedical and Technical Systems*, pages 295–306. Birkhäuser, Oct 2008.
- [10] R. López-Blázquez, **G. Gómez**, and N. Porta. Anàlisi de l'eficàcia d'un nou fàrmac contra la sida. In *Fent servir l'estadística. Què és i per a què serveix l'estadística a través de casos pràctics basats en projectes finals de carrera. (Ed. Pere Grima)*. Facultat de Matemàtiques i Estadística, UPC, ISBN: 84-7653-216-4, 2008.
- [11] R. López, **G. Gómez**, and A. Tuldrà. Posibilidades de aplicación de los estudios de supervivencia. In *Desarrollo de herramientas para evaluar el resultado de las tecnologías aplicadas al proceso rehabilitador: estudio a partir de dos modelos concretos: lesión medular y daño cerebral adquirido*, pages 53–56. Ministerio de Sanidad y Consumo, Jan 2007.
- [12] J. Segú and **G. Gómez**. Análisis de supervivencia. *Jano. Medicina y Humanidades*, 0(1624):101–111, Sep 2006.
- [13] L. Garitta, **G. Gómez**, and A.V. Curia. Metodología de estadística de supervivencia. *Estimación de la vida útil sensorial de alimentos (Eds: G. Hough y S. Fiszman)*, pages 53–69, 2005.

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## Scientific Presentations

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### Selected Invited talks and Seminars (since 2010)

- [1] *A class of two-sample binary and survival statistics with application to immunotherapy trials*. Invited Seminar at the University of Leeds, UK. March 19, 2021
- [2] *Copulas and CompARE*. Invited Seminar at Oxford University Clinical Research Unit. Ho Chi Minh City, Vietnam. February 4, 2020.
- [3] *Florence Nightingale: A role model in the 21st century*. Invited talks at: Universidad de Navarra (April 28, 2021) and Opening Seminar Series. Sociedad Española de Bioestadística (February 12, 2021) and Universidad Carlos III Madrid (February 11, 2021) and Opening Lesson. Facultat de Matemàtiques i Estadística. Any Florence Nightingale (October 14, 2020)
- [4] *Petits (?) principis revolucionaris en el pensament estadístic*. Invited talk at El Col.loqui, Departament de Matemàtiques, UAB. Bellaterra, May 30th, 2019.
- [5] *"Small" revolutionary principles in Statistical Thinking*. Invited Seminar on Applied Statistics at BCAM and UPV/EHU. Bilbao, March 20th, 2019
- [6] *Petites (?) revolucions en el pensament estadístic*. Keynote speaker at Dia de l'Estadística. Institut d'Estudis Catalans. Barcelona, October 5th, 2018.
- [7] *Using composite endpoints in Clinical Trials*. Invited talk at Dept. Biostatistics Harvard T.H. Chan School of Public Health. May 25th, 2017.
- [8] *Sample size considerations for composite endpoints*. Invited session at 2017 Conference on Lifetime Data Science. Data Science, Precision Medicine and Risk Analysis with Lifetime Data. Storrs, CT, USA. May 25–27, 2017
- [9] *Sample size considerations for Composite Endpoints*. Invited talk at Symposium honoring Prof. Marvin Zelen, Thessaloniki, 7-8 May 2017.
- [10] *Biostatistics and Bioinformatics: A promising couple* (jointly with A. Sánchez, UB). Invited talks at Congreso Bienal de la Real Sociedad Matemática Española. Zaragoza, Spain. February 2nd, 2017.
- [11] *Sample size determination when the hazard ratio is not constant*. Invited talk at Máster en Estadística e Investigación Operativa (MESIO UPC-UB). Universitat Politècnica de Catalunya. November 11th, 2015.
- [12] *Planning clinical trials with composite endpoints*. Invited talk at IBS-EMR2015. Cappadocia, Turkey. May 11-15, 2015,
- [13] *Planning clinical trials with composite endpoints*. Invited seminars at: CYTEL, Boston (May 21st, 2015) and Centre de Recerca Matemàtica ( June 11th, 2015) and Universidad de Vigo (February 4th, 2016) and
- [14] *Selecting the primary endpoint in a randomized clinical trial. How efficient is to add a new component to the primary endpoint?*. Invited seminar at Biostatistics Department. Harvard School of Public Health. Boston, November 21st, 2104.
- [15] *Contando ballenas azules en el Antártico. La estadística es genial!!*. Invited talks at Ciclo de Matemáticas en la Vida Cotidiana. Bilbao, May 15, 2014.
- [16] *Método para decidir entre un evento compuesto o una de sus componentes como variable principal en un ensayo clínico. Plataforma web para facilitarlo*. Invited talk at I Encuentro Portugués de Biometría y I Encuentro Luso-Galaico de Biometría. July 16th, 2013.
- [17] *Choosing the primary endpoint in clinical trials using web-based application tools*. (joint with M. Gómez-Mateu). Invited talk at 5th International Conference of the ERCIM Working Group on Computing & Statistics. ERCIM. Oviedo. 1-3 December 2012.
- [18] *Markov models used in a 2-stage outcome cohort simulation for an economic evaluation*. (joint with N. Perez-Alvarez). Invited talk at 5th International Conference of the ERCIM Working Group on Computing & Statistics. ERCIM. Oviedo. 1-3 December 2012.

- [19] *Tools for the assessment of the linear regression model with an interval-censored covariate.* (joint with K. Langohr and M.L. Calle). Invited talk at 4th International Conference of the ERCIM WG on COMPUTING & STATISTICS. ERCIM. University of London. 17-19 December 2011.
- [20] *Estimación no paramétrica de la función de supervivencia con datos censurados en un intervalo. Aplicaciones en Medicina.* Invited seminar for Grupo de Investigación Métodos No Paramétricos y Bayesianos sobre datos sesgados (MTM 2008-00625 y Gobierno de Aragón, S11). Zaragoza, Spain. September 22nd, 2011.
- [21] *Some theoretical thoughts when using a composite endpoint to prove the efficacy of a treatment.* Invited talk at 26th International Workshop on Statistical Modelling. IWSM. Universitat València. 11-15 July 2011.
- [22] *Use of Composite Endpoints in Cardiovascular Device Trials involving Coronary Stents.* (joint with U. Dafni and M. Gómez-Mateu). Invited talk at 6<sup>th</sup> Conference of the Eastern Mediterranean Region of the **International** Biometric Society. Crete, del 8–13 May 2011.

## Organization of scientific meetings (selected since 2000)

- **Chairperson** Invited session “Past and Future of Women in Statistics and Data Science” at the 63rd ISI World Statistics Congress 2021 on behalf of the ISI Florence Nightingale Working Group for the International Year of Women in Statistics and Data Science.
- Member *Scientific Committee* XVII Conferencia Española y VI Encuentro Iberoamericano de Biometría. València (Spain), June 18-21, 2019.
- Member *Scientific Committee* 10<sup>th</sup> Meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS). Jerusalem (Israel). December, 17-20, 2018.
- **Organizer and Chairperson** (joint with Pere Puig, UAB) of the XXIX Conference of the International Biometric Society. Barcelona (Spain), July 8-13, 2018.
- **Chairperson** *Scientific Committee* International Society for Clinical Biostatistics (ISCB). Vigo (Spain), 9-13 July, 2017.
- Member *Scientific Committee* 9<sup>th</sup> Meeting of the Eastern Mediterranean Region. International Biometric Society (EMR-IBS). Thessaloniki (Greece), 8–12 May, 2017.
- Member *Scientific Committee* Symposium honoring Professor Marvin Zelen. Thessaloniki, Greece. 7-8 May 2017.
- **Coordinator** Intensive Research Programme on Statistical Advances for Complex Data. Centre de Recerca Matemàtica, Barcelona (Spain). September 8– November 27, 2015
- Member *Scientific Committee* 8<sup>th</sup> Meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS). Cappadocia, Nevsehir, Turkey, May 11-15, 2015.
- Member *Scientific Committee* 7<sup>th</sup> Meeting of the Eastern Mediterranean Region. International Biometric Society (EMR-IBS). Tel-Aviv, Israel, 22-25 April 2013.
- Member *Scientific Committee*. 27<sup>th</sup> International Workshop on Statistical Modelling (IWSM). Prague, Czech Republic, 16-20 July, 2012.
- Member *Scientific Committee* XIII Conferencia Española y III Encuentro Iberoamericano de Biometría. Barcelona, September 7-9, 2011.
- Member *Scientific Committee* 6<sup>th</sup> Eastern Mediterranean Region Conference (EMR-IBS). Crete, May 8-12, 2011.
- Member *Scientific Committee* 22<sup>nd</sup> International Workshop on Statistical Modelling. Barcelona (Spain), July 2-6, 2007.
- Member *Scientific Committee* 3<sup>rd</sup> International Conference of EMR-IBS. Eastern Mediterranean Region of the International Biometric Society. Corfú, Greece, May 10–12, 2005.
- Member *Scientific Programme Committee*. 25<sup>th</sup> Annual Conference International Society for Clinical Biostatistics. Leiden, Netherlands. 15–19 August, 2004.
- **Course organizer** *Introduction to Longitudinal and Incomplete Data Analysis* by G. Molenberghs (KU Leuven) and G.Verbeke (KU Leuven) , April 26-30, 2004.

- **Co-Chair** (joint S. Lagakos) and Organizer (jointly with M.L. Calle, C. Serrat and O. Julià). First Barcelona Workshop on Survival Analysis. Barcelona, 12-14 June, 2002.

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## Scientific visits

- Short Term Research Collaborator. Collaboration with Dr. Ronald Geskus. Oxford University Clinical Research Unit. Ho Chi Minh City, Vietnam. January-February, 2020.
- Short Term Research Collaborator. Collaboration with Prof. Yu Shen. Department Biostatistics. MD Anderson Cancer Center. The University of Texas, Houston (USA). October 10-November 13, 2019.
- Visiting Scientist. Collaboration with Prof S. Lagakos. Department of Bioestistics. School of Public Health. Harvard University, Boston (USA). September 2008-February 2009 and September 2002-January 2003 and April-July 1998 and June 1994 and July 1991 and June-September 1989.
- Visiting Scientist. Collaboration with Prof. W. Urfer. Department Statistics. University Dortmund, Germany. August-September 1996.
- Assistant Professor. Department of Statistics. Ohio State University, Columbus, Ohio (USA). September 1986-July 1987.
- Graduate Research Assistant. Department Statistics and Bioestistics. Columbia University, New York (USA). September 1982-June 1986.

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## Selected service to the profession

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### Miscelanea (selected)

- Partner Investigator of Australian Research Council (since July 2021) and of potential Centre of Excellence in 'Shaping the future of Data Science (awaiting acceptance)
- Member Expert Committee *Acción Matemática contra el coronavirus*. Comité Español de (CEMat). Since April 2020
- Statistics in Biosciences. A Journal of the International Chinese Statistical Association (ICSA). Associate Editor (since 2021)
- Statistical Modelling. Associate Editor (since 2005).
- SORT (Statistics and Operations Research Transactions): Executive Editor (since 2003), Associate Editor (1996– 2002, former Questió)

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### Service to the International Biometric Society

- IBS Representative in International Year of Women in Statistics and Data Science Committee. Chair: J. Utts. Des 2019-July 2021
- International Biometric Society. Elected Member of the Council: July 2019- June 2023, 2000–2003.
- International Biometric Society. Elected Member of the Award Committee: 2002– 2008.
- International Biometric Society. Member Strategic Plan Committee: 2003 - 2009.
- International Biometric Society. Member Editorial Advisory Committee: 1994– 2001.
- Spanish Region of the International Biometric Society. President: 1999- 2000, Vicepresident: 1998, 2001-2002, Member of the Council: 1996-1997.

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### Service to the University

- Nominated member UPC Ethics Committee.. Since July 2020
- Chair UPC of Bioinformatics Joint Doctorate with UAB, UPC, U Lleida, U Girona, U Vic, UOC. Coordinator: UAB. Sept. 2016-Sept 2020
- ViceDean Postgraduate Studies. Facultat de Matemàtiques i Estadística. Universitat Politècnica de Catalunya-BarcelonaTech. April 2012-February 2015.
- Key Opening Speech in Graduation Ceremony as Godmother of Bachelor and Master Statistics Students (UPC). December 2015

- Founder and Chair Master in Statistics and Operations Research (MESIO UPC-UB). Joint Master UPC-UB. From March 2006 to July 2015.
- Elected member by the Claustro Universitario of Comisión de Selección y Evaluación del Personal Docente e Investigador (CSAPDIU). Universitat Politècnica de Catalunya-BarcelonaTech. VicePresident (2007-2008) and Secretary (2006-2007) and Council Member (2003-2008).
- Chair Subcommittee of Facultat de Matemàtiques y Estadística for the Master in Statistics. December 2004- November 2005.
- Member Committee of UPC Doctorate School to grant Special Honors for PhD students. 2004
- Chair Doctorate Programme "Aplicaciones Técnicas e Informáticas de la Estadística, la Investigación Operativa y la Optimización". Dept. Statistics and Operations Research. 2003-2008.
- Representante de la UPC en la Comisión de Seguimiento de la revista *Questiio* desde abril de 2002.
- Key Opening Speech in Graduation Ceremony. Bachelor Statistics (UPC). Nov. 1998
- Coordinator International Relations. Facultat de Matemàtiques i Estadística and Department Statistics and Operations Research. Period: 1992– 1998.
- Head Sección de Informática. Dept. Statistics and Operations Research. Jan. 1997- March 1998
- International Relations Representative Facultat de Matemàtiques y Estadística. Jan. 1992- Sept. 1998.
- Rector Delegate for "Asuntos de Extensión Universitaria". July 1990-Feb. 1991.
- Secretaria Académica. Dept Statistics and Operations Research. Fer.1988- Dec 1989

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## Selected Honours and Awards (since 2010)

- President Consell Català d'Estadística. Since October 2019
- Elected European Representative for the Caucus for Women in Statistics Program Committee: 2020-2021.
- International Biometric Society. Nominated (among 3) for International Biometric Society Vice-President/President for the term 2019- June 2023.
- Universitat Politècnica de Catalunya Special Recognition for Management Merits. 2015
- As President of the Societat Catalana d'Estadística, within the International Year of Statistics (IYS), I organize a Parliament Declaration giving support to the IYS. April 10, 2013.
- Parliament Celebration. Opening by Nuria de Gispert, President of the Parliament de Catalunya, Frederic Udina, director Catalan Institute of Statistics ( Idescat) and by Guadalupe Gómez Melis, President of the Societat Catalana d'Estadística. Keynote Speaker: Prof. G. Molenberghs (Leuven Biostatistics and Statistical Bioinformatics Centre). Oct. 18, 2013.
- Minister of Education Research recognition for the consecutive 6 year-periods: 89–94, 95–00, 01–06, 07–12, 13–18.
- Minister of Education Teaching recognition for the consecutive 5 year-periods: 79–88, 89–93, 94–98, 99–03, 04–08, 09–13, 14–18.
- Awarded Sabbatical License course 2019- 20. Universitat Politècnica de Catalunya.