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Professional Experience



UPC (Universitat Politècnica de Catalunya)

UPC	UPC (Universitat Politècnica de Catalunya)	
2012-cur.	Teaching	Achievements
	 Assistant professor: Statistics and Probability (degree in Computer Science, since 2012), Marketing quantitative techniques (Master in statistics, since 2017), Statistical Software (degree in Statistics, 2012) and Statistics (degree in Mathematics, 2013) Co-director of 2 Bachelor's and 2 Masters' thesis Lecturer in the course "Biostatistics for non-statisticians" Lecturer in seminars at Ferrer, Novartis among others 	 Scores above the average (of department, center or university) on all items of teaching performance surveys Grades of 9.5 and 8.5 (3) in the four final thesis that I was advisor More than 300 students enrolled (mostly doctors) in the course "Biostatistics for non-statisticians" in the last 6 years
2008-14 2017-18	Research	Achievements
2011-14	 Study of the sample size and behavior of the hazard ratio in time-to-event clinical trials with composite endpoints Methodological papers in topics such as survival analysis or reporting guidelines published in journals with high impact factor (IF) like BMJ or JCE Book chapter about reporting guidelines Participation with oral presentations and posters in several biostatistics congresses Consultancy (Biostatistics) Collaboration in two multi-center trials: analysis of ICTUS and 	 → Development of a web-platform to design RCTs with composite events → Fourteen published papers: 12 of them in journals with IF and 5 in the Q1 of their respective area → One book chapter → Participation in several congresses: 8 oral dissertations → h-index: 6 Achievements → Sample size design in REVASCAT trials with sequential
	 sequential design of REVASCAT Statistical consultant at Neuroscience department of HUGTIP Member of the EIOLAB service with customers such as Bayer, Actelion Pharmaceuticals, among others 	 analysis based on Whitehead methodology. → Secondary analyses performed for ICTUS trial with the aim of explaining observed interactions.
2011-14	Other Projects	Achievements
	 Filtering, profiling and fusion of traffic data and database design for companies Betterways and SenseFields Behavior prediction of web users for company Educaweb [https://www.eio.upc.edu/noticies/professors-del-departament-deio-participen-en-el-projecte-educalab] 	 Establishment of web platform for data traffic analysis in company Betterways An improvement of 12% in the number of "clicks" by the Educaweb users
IDIAP Jordi Gol	IDIAP – Jordi Gol	
2015-17	Statistical consultant	Achievements
	 Statistician in various projects within the drug studies department. 	→ Conducting studies for pharmaceutical companies such as Pfizer or Servier and for independent researchers.
2016	R software applied to health sciences	Achievements → Average of 9.2 in the global assessment of the course.
LS BCN	La Salle – Ramon Liuil	/ Average of 3.2 in the global assessment of the coarse.
2015-cur	Teaching	Achievements
	Professor of Statistics on Big Data Master.	→ An average grade of 8.3 (2015), 7.2 (2016) and 7.2 (2017) in the students enrolled on the course.
ed(*)	Educaweb	
2014-15	Business Intelligence	Achievements
	 Behavioral targeting. Reports with Reporting Services (SSRS). Predictive maintenance. 	 Study of the evolution and predictability of the leads rejection (company product) by the centers.

Education

- Master's in Statistics and Operations Research, specialized in Biostatistics (2011, grade: 9.34)
- Bachelor's degree in Statistical Sciences and Techniques (2011, grade: 9.08, first of the promotion)
- Diploma in Statistics (2008, grade: 9.35, first of the promotion)
- Several courses about drug development, survival analysis and graphical representation

Languages

- Spanish and Catalan, native languages
- English, intermediate level. High skills in writing reports and scientific papers.
- Translations English-Spanish: The Vital Link to Applying Evidence in Medical Decisions; CONSORT 2001 and CONSORT 2010

IT

- Statistical software: proficiency in R and knowledge of SPSS, Minitab, SPAD and SAS.
- Data visualization: Shiny R-package, SQL Server Reporting Services
- Data base: PostgreSQL, SQL Server and Access.
- Programming languages: R, Matlab, Java and AMPL.
- Others: HTML, Drupal, Microsoft Office.
- Good skills in learning any software.

Reviews

• Reviewer of journals *Trials*(IF: 2.1), *Medicina Clínica* (IF: 1.3) and *Fisioterapia* (IF: *NA*)

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Research activity [http://futur.upc.edu/JordiCortesMartinez]

Papers

- Gomez-Lumbreras A, Cortes J, Giner-Soriano M, Quijada-Manuitt MA, Morros R. <u>Characteristics of Apixaban-Treated Patients, Evaluation of the Dose Prescribed, and the Persistence of Treatment: A Cohort Study in Catalonia</u>. Journal of cardiovascular pharmacology and therapeutics. First Published May 23, 2018. doi: 10.1177/1074248418778544
- Benitez M, Morros R, Pera H, Dalfó A, Bayó J, Rebagliato O, Cortès J, García A, Roca C, Coll de Tuero G, Vinyoles-Bargalló E. <u>Effect of effervescent paracetamol on blood pressure: a crossover randomized clinical trial</u>. Journal of Hypertension. Publish Ahead of Print():, MAR 2018. doi: 10.1097/HJH.00000000001733
- 3. **Cortés J**, González JA, Medina MN et al. <u>Does evidence support the high expectations placed in precision medicine? A bibliographic review</u> [version 1; referees: 2 approved with reservations, 1 not approved]. F1000Research 2018, 7:30 doi: 10.12688/f1000research.13490.1
- 4. Giner-Soriano M, Sotorra Figuerola G, Cortés J, Pera Pujadas H, Garcia-Sangenis A, Morros R. <u>Impact of Medication Adherence on Mortality and Cardiovascular Morbidity: Protocol for a Population-Based Cohort Study.</u> JMIR Res Protoc 2018;7(3):e73DOI: 10.2196/resprot.8121
- Llor C, Pérez A, Carandell E, García-Sangenís A, Rezola J, Llorente M, Gestoso S, Bobé F, Román-Rodríguez M, Cots JM, Hernández S, Cortés J, Miravitlles M, Morros R. <u>Efficacy of high doses of penicillin versus amoxicillin in the treatment of uncomplicated community acquired pneumonia in adults. A non-inferiority controlled clinical trial. Aten Prim. 2017. DOI: 10.1016/j.aprim.2017.08.003
 </u>
- Carrera D, Campbell BC, Cortés J, Gorchs M, Querol M, Jiménez X, Millán M, Dávalos A, Pérez de la Ossa N. <u>Predictive Value of Modifications of the Prehospital Rapid Arterial Occlusion Evaluation Scale for Large Vessel Occlusion in Patients with Acute Stroke</u>. J Stroke Cerebrovasc Dis. 2016; pii: S1052-3057(16)30304-4. doi: 10.1016/j.jstrokecerebrovasdis.2016.08.032 (16).
- 7. López-Cancio E, Ricciardi AC, Sobrino T, **Cortés J**, Pérez de la Ossa N, Millán M, Hernández-Pérez M, Gomis M, Dorado L, Muñoz-Narbona L, Campos F, Arenillas JF, Dávalos A. <u>Reported Prestroke Physical Activity Is Associated with Vascular Endothelial Growth Factor Expression and Good Outcomes after Stroke</u>. J Stroke Cerebrovasc Dis
- 8. Cortes J, Casals M, Langohr K, Gonzalez JA. Importancia de la potencia y la hipótesis en el valor p. Med Clin. 2016; 146 (4): 178-81.
- 9. **Cortés J**, González JA, Campbell MJ, Cobo E. *A hazard ratio was estimated by a ratio of median survival times, but with considerable uncertainty. J Clin Epidem*. 2014; 67 (10): 1172-77 DOI: 10.1016/j.jclinepi.2014.05.017.
- 10. Montesinos J, **Cortés J**, Arnau A, Elmore M, Macia N, Santisteve R, Bosch J. <u>Barcelona baby boom: does sporting success affect birth rate?</u> BMJ 2013; 347:f7387.
- 11. Riera J, Pérez P, **Cortés J**, Roca O, Masclans JR, Rello J. <u>Effect of high flow nasal cannula and body position on end-expiratory lung volume. A cohort study using electrical impedance tomography</u>. Respir Care. 2012;8.
- Vilas D, Gomis M, Blanco M, Cortés J, Millán M, Pérez de la Ossa N, Dorado L, López-Cancio E, Suñol A, Dávalos A. <u>Circadian Rhythms in the Efficacy of Intravenous Alteplase in Patients With Acute Ischemic Stroke and Middle Cerebral Artery Occlusion</u>. Chronobiol. Int 2012. Early Online: 1–7. DOI: 10.3109/07420528.2012.728655.
- 13. Cobo E, **Cortés J**, Ribera JM, Cardellach F, Selva-O'Callaghan A, Kostov B, García L, Cirugeda L, Altman DG, González JA, Sànchez JA, Miras F, Urrutia A, Fonollosa V, Rey-Joly C, Vilardell M. <u>Effect of using reporting guidelines during peer review on quality of final manuscripts submitted to a biomedical journal: masked randomised trial. BMJ 2011;343:d6783.</u>
- 14. Díez E, Oliva JC, **Cortés J**, Cobo E, Gómez S, Vadillo V, Cabanas M, Barcons N, Perez G, Foz M, Estruga L, Almirall R, Vela E, Martínez C, Artazcoz L, Pidelaserra F, Lopez S, Cabús E. <u>Promoció de la contracepció en dones immigrades i autòctones de Barcelona: anàlisi intermèdia del programa SIRIAN</u>. Barcelona Societat: revista d'informació i estudis socials, ISSN 1133-6315, №16, 2009; 89-102.

Book chapters

1. **Cortés J.**, Cobo E. *Un paseo estadístico por las guías de publicación*. A: Jiménez J., Argimon JM., Martín A., Vilardell M. *Publicación Científica Biomédica*. Barcelona: Elsevier, 2010, p. 125-144.

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Oral presentations

- Cortés J, Bofill M, Gómez G. Sample size using CompARE. III
 Jornadas Científicas de Estudiantes de la SEB, January, 18-19,
 2018.
- Cortés J, González JA, Cobo E. Mediation analysis in randomized trials: the direction of bias. ISCB 2017: 38th Annual conference of the International Society for Clinical Biostatistics: Vigo, Spain: july 9-13, 2017.
- Cortés J, Vilaró M, González JA, Cobo E. Shiny: una herramienta para compartir datos en la era del Open Data. 3ra Reunión General de Biostatnet, Santiago de Compostela, January, 20-21, 2017.
- Giner-Soriano M, Prieto-Alhambra D, Cortés J, Quijada-Manuitt MA, Vlacho B, Mustata C, Morros R. Assessment of drug safety: post-authorisation safety studies and drug utilization studies with SIDIAP participation. XXIX Congreso de la Sociedad Española de Farmacología Clínica, Barcelona, October, 19-21, 2016
- 5. **Cortés J**, Cobo E, González JA, Vilaró M, Salicrú M. *Constant effect assumption versus individualized medicine*. International Society for Clinical Biostatistics Conference. Birminghan, 2016.
- Cortés J, Vogler M, Medina M, González JA, Cobo E. Constant effect assumption versus individualized medicine. XVth Spanish Biometry Conference and 5th Ibero-American Biometry Meeting. Bilbao, September 22-25, 2015.
- Vogler M, Cortés J, Cobo E, González JA, Serrat C. Power and effect size in repeated measures modelling. XVth Spanish Biometry Conference and 5th Ibero-American Biometry Meeting. Bilbao, September 22-25, 2015.
- López D, Cortés J, Fernández M, Parcerisa JM, Tous R, Tubella J. La influencia del orden de las preguntas en los exámenes de primer curso. XIII Jornadas sobre la Enseñanza Universitaria de la Informática (JENUI). Castellón de la Plana, July 10-12, 2013.
- Cortés J, Cobo E, González JA. Reporting of censures in survival studies. XIVth Spanish Biometry Conference and 4rth Ibero-American Biometry Meeting. Ciudad Real, May 22-24, 2013.
- Cortés J, Cobo E, González JA. Readability of the effect measures on health interventions. XIIIth Spanish Biometry Conference and 3rd Ibero-American Biometry Meeting. BCN, Sept. 7-9, 2011.
- Cortés J, García L, Adriyanov B, Fonollosa V, Rius R, Vilaseca J, Ribera JM, Cardellach F, Selva A, Urrutia A, Rey-Joly C, Vilardell, M, Belmonte M, Cobo E. Desvíos más frecuentes de las recomendaciones metodológicas. XIIth Spanish Biometry Conference. Cádiz, 23-25, 2009.
- Díez E, Gómez S, Cobo E, Cortés J, Oliva JC, Almirall R, Vela E, Martínez C, Pérez G. Promoción de la salud reproductiva en mujeres inmigrantes y autóctonas. Resultados preliminares del ensayo SIRIAN. XXVI Reunión científica anual de la Sociedad Española de Epidemiología. Girona, October 15-17, 2008.

Posters

- Pladeva M, Hallas J, Schink T, Morros R, Poblador-Plou B, Forns J, Hellfritzsch M, Reinders T, Giner-Soriano M, Prados-Torres A, Cainzos-Achirica M, Pottegård A, Kollhorst B, Cortés J, Aguado J, Perlemuter G, Castellsague J, Jacquot E, Deltour N, Perez-Gutthann S. Agomelatine and Risk of Hospitalization for Acute Liver Injury: Nested Case-Control Study in Spain, Germany, and Denmark. 33rd International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE); August 29, 2017. Montreal, Canada.
- Garcia A, Pera H, Vlacho B, Moreno MP, Mustata CE, Giner-Soriano M, Cortés J, Morros R. Ensayos clínicos independientes con medicamentos en atención primaria. XXIX Congreso Sociedad Española de Farmacología Clínica. 20/10/2016, Barcelona.
- 3. Vilaró M, **Cortés J**, González JA, Cobo E. *Improving quality of biomedical scientific research*. International Society for Clinical Biostatistics Conference. Birminghan, 2016.
- Vilaró M, Cortés J, Ribera JM, Cardellach F, Selva-O'Callagham A, Urrutia A, Cobo E. *Improving biomedical research impact*. XVth Spanish Biometry Conference and 5th Ibero-American Biometry Meeting. Bilbao, September 22-25, 2015.
- Vogler M, Cortés J, Medina M, Cobo E, González JA. Negative outcome-baseline correlations in psychological variables. XVth Spanish Biometry Conference and 5th Ibero-American Biometry Meeting. Bilbao, September 22-25, 2015.
- Torres JV, Heinzl H, Cortés J, Chadha-Boreham H. Refined nomograms to enhance the interpretation of clinical risk prediction models. 33rd Annual Conference of the International Society for Clinical Biostatistics (ISCB). Bergen, Norway: 19-23 August 2012, p. 93. www.iscb2012.info
- Torres JV, Cortés J, González JA, Sánchez JA, Secades J, Cobo E. Stroke clinical trials efficiency can be improved. 31st Annual Conference of the International Society for Clinical Biostatistics (ISCB). Montpellier, France: 29 August-2 September 2013.
- Torres JV, Cortés J, González JA, Muñoz Gracia MP, Sánchez JA, Secades J, Cobo E. Efficiency in the design of clinical trials with ordinal scales. A: XII Conferencia Española de Biometría. "XII Conferencia Española de Biometría". Cádiz: 2009, p. 253-254.
- Cobo E, Cortés J, Fonollosa V, Urrutia A, Selva-O'Callagham A, Cardellach F, Ribera JM, Miras F, Adriyanov B, García L, Belmonte M, Rey-Joly C, Vilardell M. ET Study (Enhancing Transparency of Biomedical Journals). A masked randomized trial. The Sixth International Congress on Peer Review and Biomedical Publication. September 10-12, 2009.