

Curriculum vitae

Frederic Udina Abelló

Septembre 17, 2020

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Personal Data

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Academic Data

Graduate in Mathematics, Universitat Autònoma de Barcelona, June 1976.

Graduation thesis, October 1981.

Ph.D. in Mathematics, Universitat Politècnica de Catalunya, setembre 1998.

Advisor: Albert Satorra.

Publications

In scientific journals

A. CORRAL, F. UDINA AND E. ARCAUTE. "Truncated lognormal distributions and scaling in the size of naturally defined population clusters." *Physical Review E*, (Vol, 101, No. 4) DOI: 10.1103/PhysRevE.101.042312. Published March 2020.

UDINA, F.; JIMENEZ-GURI, E.; JEAN-FRANÇOIS COLAS, JAMES SHARPE, LAURA PADRÓN-BARTHE, MIGUEL TORRES, CRISTINA PUJADES "Clonal Analysis in Mice Underlines the Importance of Rhombomeric Boundaries in Cell Movement Restriction during Hindbrain Segmentation". *PLoS ONE* 5(4): e10112. doi:10.1371/journal.pone.0010112, published 12 Apr 2010.

L. DEVROYE, A. GYÖRGY, G. LUGOSI, AND F. UDINA "High-dimensional random geometric graphs and their clique number." *Electronic Journal of Probability*, 16:2481-2508. (2011)

GYÖRFY, L.; UDINA, F.; WALK, H. "Nonparametric nearest neighbor based empirical portfolio selection strategies." *Statistics and Decisions*, **26**, 2, pp

145-157, 2008.

OSÉS-ERASO, N.; UDINA, F.; VILADRICH-GRAU, M. "Environmental versus Human-Induced Scarcity in the Commons: Do They Trigger the Same Response?" *Environmental and Resource Economics*, **40**, 4, pp 529-550 / August, 2008.

GYÖRFY, L.; LUGOSI, G.; UDINA, F. "Nonparametric kernel-based sequential investment strategies" *Mathematical Finance*, **16**, 2, pp. 337-357, 2006.

UDINA, F.; DELICADO, P, "Estimating Parliamentary composition through electoral polls" *J. R. Statist. Soc. A*, **168**, Part 2, pp. 387-399, 2005.

UDINA, F. "Interactive Biplot Construction" *Journal of Statistical Software*, **13.5**, 2005.

DELICADO, P; UDINA, F., "¿Cómo y cuánto fallan los sondeos electorales?" *Revista Española de Investigaciones Sociológicas*, **96/01**, p. 123-150, 2001.

UDINA, F. "Implementing interactive computing in an object-oriented environment" *Journal of Statistical Software*, **5.3**, 1-20.

(<http://www.jstatsoft.org/v05/i03/>). 2000.

MARRON, J.S., UDINA, F. "Interactive Local Bandwidth Choice". *Statistics and Computing*, **9**, 101-110. 1999.

UDINA, F. "Comment on Universal smoothing factor selection in density estimation: theory and practice, by Luc Devroye". *TEST*, **6**, 310-316. 1997.

SIMONOFF, J.S.; UDINA, F., "Measuring the stability of histogram appearance when the anchor position is changed". *Computational Statistics and data analysis*, **23**, 335-353. 1997.

Chapters of Books

DEVROYE, L.; LUGOSI, G.; UDINA, F. "Inequalities for a new data-based method for selecting nonparametric density estimates" in M.L. Puri (editor), *Asymptotics in Statistics and Probability. Papers in Honor of George Gregory Roussas.*, VSP International Science Publishers, The Netherlands, 2000.

Text books

GREENACRE, M. UDINA, F. *Estadística I*. Edicions de la Universitat Oberta de Catalunya. Barcelona 1998.

UDINA, F. *Matemàtiques II: 1.- Les funcions d'una variable. 2.- Les idees bàsiques del càlcul. 3.- Apliquem les tècniques del càlcul*. Edicions de la Universitat Oberta de Catalunya. Barcelona 1997.

Other research activities

Scientific meetings

Special short course on *Kernel Density Estimation*, Graduate School of Engineering Sciences, Osaka University, Japan, 2006.

Environmental and Resource Economists, 3rd World Congress *3rd World Congress of Environmental and Resource Economists*, Kyoto, Japan, 2006. “The environmental-induced and the human induced scarcity in the commons: do we react the same?” with Montserrat Viladrich-Grau, Nuria Osés-Eraso.

CLAPEM 2004 (Congreso latino-americano de probabilidad y estadística matemática), Punta del Este, Uruguay 2004. “Universal strategies for sequential investment” in the Special Session on *Stochastic calculus and statistics towards finance*.

International Conference of the Royal Statistical Society – RSS 2002, Plymouth 2002. “Estimating parliamentary composition through electoral polls” in the Invited Session on *Voting behaviour*.

Symposium on Nonparametric Functional Estimation, Montréal, 1997. “Universal parameter selection in histograms”, joint work with Gábor Lugosi, invited conference .

Advances in smoothing: Bumps, Jumps, Clustering, and Discrimination, Houston, 1997. “Interactive mode testing”, joint work with Steve Marron and Enno Mammen, invited conference .

XVIII International Biometrics Conference, Amsterdam, 1996. “Interactive Graphics for Nonparametric curve estimation”, in the Invited Session about *Dynamic Graphics*.

Joint Meetings of the American Statistical Society, Orlando, 1995. “Interactive Kernel Density Estimation with Lisp-Stat”. in the Invited Session about *Statistical Computing in Lisp*.

Scientific meetings organization

CARME2003 (Correspondence analysis and Related Methods) in Barcelona. Member of the organizing committee .

CEF2000 (Computing in Economics and Finance) in Barcelona. Member of the organizing committee .

COMPSTAT'96 in Barcelona. Member of the organizing committee .

Other Activities

June 2011- May 2019. Director of the Statistical Institut of Catalonia, Idescat.

Guest editor (with Pedro Valero-Mora) of the Special Volume *Lisp-Stat, Past, Present and Future, Journal of Statistical Software*, 2005.

Associated Editor of the *Journal of Statistical Software* (till June 2007.)

Referee for the journals : Statistics and computing, Journal of the American Statistical Society (JASA), Journal of Statistical Software, Qüestió, IEEE Transactions on Signal Processing, IEEE Transactions on Information Theory, Environmental Engineering Science, Ecological Economics, Journal of Nonparametric Statistics.