Saverio Ranciati, Ph.D.

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CURRENT & PAST POSITIONS

- Research fellow (postdoc position) at Dipartimento di Scienze Statistiche, Università di Bologna (Italia), a.y.(s) 2015-2019;
- Officer (2018-) and coordinator (2019-) of **ySIS**, the young group of the Italian Statistical Society, website `https://youngsis.github.io/`.

PUBLISHED & WORKING PAPERS

- Lanci, A., Castagnetti, C., Ranciati, S., Sergio, C., Mariella, J., (2018) "A regression model including fetal orbit measurements to predict parturition in Standardbred mares with normal pregnancy", *Theriogenology*, 126(1), 153-158;
- Crispino, M., D'Angelo, S., Ranciati, S., Mira, A., (2018), "Understanding dependency patterns in structural and functional brain connectivity through fMRI and DTI data", In: Canale A., Durante D., Paci L., Scarpa B. (eds) *Studies in Neural Data Science*, START UP RESEARCH 2017, Springer Proceedings in Mathematics & Statistics, vol 257(1-22), Springer, Cham;
- Ranciati, S., Galimberti, G., Soffritti, G., (2018), "Bayesian Variable Selection in Linear Regression Models with non-normal Errors", *Statistical Methods and Applications*, `doi.org/10.1007/s10260-018-00441-x`;
- Ranciati, S., Galimberti, G., Wit, E.C., Vinciotti, V., (2018), "Overlapping mixture models for network data (`manet`) with covariates adjustment", *Book of Short Papers SIS 2018*, ISBN-9788891910233;
- Ranciati, S., Vinciotti, V., Wit, E., (2018), "Identifying overlapping terrorist cells from the Noordin Top actor-event network", *Annals of Applied Statistics*, under review;
- Ranciati, S., Wit, E., Viroli, C., (2018), "Bayesian Smooth-and-Match strategy for ordinary differential equations models that are linear in the parameters", *Statistica Neerlandica*, under review;
- Ranciati, S., Galimberti, G., Soffritti, G., (2017), "Bayesian Variable Selection in Linear Regression Models with non-normal Errors", *Book of Short Papers Cladag 2017*, ISBN-9788899459710;
- Ranciati, S., Viroli, C., Wit, E., (2017), "Mixture model with multiple allocations for clustering spatially correlated observations in the analysis of ChIP-Seq data", *Biometrical Journal*, 59(6), 1301-1316;

- Ranciati, S., Viroli, C., Wit, E., (2015), "Spatio-temporal model for multiple ChIP-Seq experiments", *Statistical Applications in Genetics and Molecular Biology*, 14(2), 211-219.

EDUCATION

◇ *Doctorate:* joint double-degree Ph.D. at Dipartimento di Scienze Statistiche, Università di Bologna (Italia), and J.B. Institute for Mathematics and Computer Science, University of Groningen (The Netherlands); Thesis: "*Statistical modelling of spatio-temporal dependencies in NGS data*", 2016;

◇ *Master's Degree:* Scienze Statistiche, Thesis: "*Latest developments in non-parametric hazard function estimation*", Dipartimento di Scienze Statistiche, Università di Bologna (Italia), 2012;

◇ *Bachelor of Science:* Statistica e Informatica per la Gestione delle Imprese, Thesis: "*Analisi Fattoriale Dinamica sugli ossidi d'azoto in Umbria*", Università di Perugia (Italia), 2010.

VISITINGS & RESEARCH EXPERIENCES

○ *Short Term Scientific Mission (STSM)* February 2017
STSM through COSTNET Action CA15109 at Department of Mathematics, Brunel University London, Uxbridge (U.K.).

○ *Visiting PhD student* March-September 2014, March 2015
Research experience abroad at J.B. Institute for Math and Computer Science, University of Groningen, Groningen (The Netherlands);

CONFERENCES, WORKSHOPS & TALKS

○ "Overlapping mixture model for network data (manet) with covariates adjustment ", (*invited session*)
  - ERCIM-CSM 2018 conference, Pisa (Italy), December 2018;
  - COSTNET18 conference, Warsaw (Poland), September 2018;
  - 49th scientific meeting of the Italian Statistical Society (SIS2018), University of Palermo, Palermo (Italy), June 2018;
  - University College Dublin, Dublin (Ireland), April 2018;
  - COSTNET17 conference, Palma de Mallorca (Spain), October 2017;

○ "Bayesian Variable Selection in Linear Regression Models with non-normal Errors", (*contributed session*)
CLAssification and Data Analysis Group (CLADAG) 2017 conference, University of Milano-Bicocca, Milan (Italy), September 2017;

○ "START Up Research" event, June 2017, Certosa di Pontignano (Siena), `http://www.congressi.unisi.it/startupresearch/group-leaders/`;

○ "Mixture model with multiple allocations for clustering spatially correlated observations for the analysis of NGS data", (*contributed session*)
CMS-ERCIM 2015 conference, University of London, London (UK), December 2015;

- "Mixture model with multiple allocation for clustering spatially correlated observations in gene expression data", (*invited session*)
  IFCS2015 conference, University of Bologna, Bologna (Italy), July 2015;
- "Spatio-temporal model for multiple ChIP-Seq Experiments", (*contributed session*)
  Statistical Systems Biology SSB 2014 workshop, University of Warwick, Coventry (UK), December 2014;
- "Modelling multiple ChIP-seq experiments via a markov random field model with spatio-temporal dependencies", (*invited session*)
  - CMS-ERCIM 2014, University of Pisa, Pisa (Italy), December 2014;
  - CIBB 2014, University of Cambridge, Cambridge (UK), June 2014;

PEER-REVIEWING ACTIVITY

Computational Statistics and Data Analysis (ISSN: 0167-9473), *Statistics and Computing* (ISSN: 1573-1375), *Journal of Royal Statistical Society: Series C* (ISSN: 1467-9876), *Statistics in Medicine* (ISSN: 1973-2201), *BMC Bioinformatics* (ISSN: 1471-2105), *Statistica* (ISSN: 1973-2201).

TEACHING ACTIVITY

- Adjunct Professor (1/2) in "Experimental Methodology And Data Analysis", a.y.(s) 2017-2019;
- Teaching assistant for "Bayesian Inference", a.y.(s) 2017-2019;
- Teaching assistant for "Probability I",a.y.(s) 2017-2019;
- Teaching assistant for "Statistical Models and Applications", a.y.(s) 2016-2018;
- Teaching assistant for "Statistical Inference", a.y.(s) 2014-2018;
- Adjunct Professor (1/2) in "Elements of Statistics", a.y.(s) 2016-2017;
- Teaching assistant for "Applied Statistics", a.y.(s) 2013-2017.

COMPUTER SKILLS

Languages & Software: R, C/C++, LateX, STATA, SAS, Git, PHP, MySQL, HTML, Microsoft Office Suite, AdobePhotoshop.
Operating Systems: OSX, Windows.

LANGUAGE SKILLS

Language (level): Italian (*primary*), English (*fluent*), Spanish (*midlevel*), French (*basic*).