Saverio Ranciati, Ph.D.

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CURRENT & PAST POSITIONS

- Postdoc research fellow (2015-2019) in Statistics at the Department of Statistical Sciences "Paolo Fortunati", University of Bologna, Italy;
- Officer (2018-2019) and coordinator (2019) of ySIS, the young group of the Italian Statistical Society; website `https://youngsis.github.io/`.

EDUCATION

- *Doctorate (2016):* Statistical methodology for scientific research; joint double-degree Ph.D. at Department of Statistical Sciences "Paolo Fortunati", University of Bologna, Italy, and J.B. Institute for Mathematics and Computer Science, University of Groningen, The Netherlands; Thesis: "*Statistical modelling of spatio-temporal dependencies in NGS data*";
- *Master's Degree (2012):* Statistical Sciences; Thesis: "*Latest developments in non-parametric hazard function estimation*", Department of Statistical Sciences "Paolo Fortunati", University of Bologna, Italy;
- *Bachelor of Science (2010):* Statistica e Informatica per la Gestione delle Imprese; Thesis: "*Analisi Fattoriale Dinamica sugli ossidi d'azoto in Umbria*", Faculty of Economics - Department of Economics, Finance and Statistics, University of Perugia, Italy.

PUBLISHED & WORKING PAPERS

- Ranciati, S., Vinciotti, V., Wit, E., (2019), "Identifying overlapping terrorist cells from the Noordin Top actor-event network", *Annals of Applied Statistics*, under review;
- Ranciati, S., Wit, E., Viroli, C., (2019), "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., (2019), "Bayesian Variable Selection in Linear Regression Models with non-normal Errors", *Statistical Methods and Applications*, 28 (2), 323-358;
- Lanci, A., Castagnetti, C., Ranciati, S., Sergio, C., Mariella, J., (2019) "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., 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., 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., (2016), "Statistical modelling of spatio-temporal dependencies in NGS data", [Dissertation thesis], joint double-PhD programme in Statistical Sciences, XXVIII cycle, supervisor(s): Cinzia Viroli & Ernst C. Wit. Repository (i): University of Bologna, `doi:10.6092/unibo/amsdottorato/7680`; repository (ii): University of Groningen, `print ISBN: 978-90-367-8960-8`;
- 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.

ORGANIZING & SCIENTIFIC COMMITTEES

- "Smart Statistics for Smart Applications", 49th scientific meeting of the Italian Statistical Society (SIS) at Cattolica University, Milan, Italy, member of *scientific committee*, website: `https://www.mathesia.com/home/sis19/`;
- "StaTalk 2019 @ UniBO", one-day workshop at Department of Statistical Sciences "Paolo Fortunati", Bologna, Italy, member of *local organizing and scientific committee*, website: `https://eventi.unibo.it/statalk-2019`.

CONFERENCES, WORKSHOPS & TALKS

- "Clustering two-mode binary network data with overlapping mixture model and covariates information", (*invited session*)
  CLAssification and Data Analysis Group (CLADAG) 2019 conference, University of Cassino and Southern Lazio, Cassino, Italy, September 2019;
- "Overlapping mixture model for network data (manet) with covariates adjustment ",
  - ERCIM-CSM 2018 conference, Pisa, Italy, December 2018; (*invited session*)
  - COSTNET18 conference, Warsaw, Poland, September 2018; (*contributed session*)
  - SIS2018, 48th scientific meeting of the Italian Statistical Society University of Palermo, Palermo, Italy, June 2018; (*invited session*)

  - University College Dublin, Dublin, Ireland, April 2018; (*invited session*)
  - COSTNET17 conference, Palma de Mallorca, Spain, October 2017; (*contributed session*)

- "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*)
  ERCIM-CSM 2015 conference, University of London, London, U.K., 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, U.K., December 2014;
- "Modelling multiple ChIP-seq experiments via a markov random field model with spatio-temporal dependencies",
  - ERCIM-CSM 2014, University of Pisa, Pisa, Italy, December 2014; (*invited session*)
  - CIBB 2014, University of Cambridge, Cambridge, U.K., June 2014; (*contributed session*)

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-October 2014, March 2015
  Research experience abroad at J.B. Institute for Math and Computer Science, University of Groningen, Groningen, The Netherlands.

TEACHING ACTIVITY

2018/2019:

- *adjunct professor:* "Experimental Methodology And Data Analysis" [AGR/02, 30 hours];
- *teaching assistant:* "Bayesian Inference" [SECS-S01, 10 hours], "Probability I" [SECS-S01, 10 hours], "Statistical Models and Applications" [SECS-S01, 15 hours], "Applied Statistics" [SECS-S01, 10 hours];

2017/2018:

- *adjunct professor:* "Experimental Methodology And Data Analysis" [AGR/02, 30 hours];
- *teaching assistant:* "Bayesian Inference" [SECS-S01, 10 hours],"Probability I" [SECS-S01, 10 hours], "Statistical Models and Applications" [SECS-S01, 15 hours], "Statistical Inference" [SECS-S01, 15 hours], "Applied Statistics" [SECS-S01, 10 hours];

2016/2017:

- *adjunct professor:* "Elements of Statistics" [SECS-S01, 30 hours];
- *teaching assistant:* "Statistical Models and Applications" [SECS-S01, 15 hours], "Statistical Inference" [SECS-S01, 15 hours], "Applied Statistics" [SECS-S01, 10 hours];

2015/2016: *teaching assistant:* "Statistical Inference" [SECS-S01, 15 hours], "Applied Statistics" [SECS-S01, 10 hours];

2014/2015: *teaching assistant:* "Statistical Inference" [SECS-S01, 15 hours], "Applied Statistics" [SECS-S01, 10 hours];

2013/2014: *teaching assistant:* "Applied Statistics" [SECS-S01, 10 hours].

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).

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*).