# Saverio Ranciati, Ph.D.

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**CURRENT & PAST POSITIONS**

- Postdoc research fellow (2015-2019) 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., Vinciotti, V., Ernst, C. W., Galimberti, G., (2019), "Clustering two-mode binary network data with overlapping mixture model and covariates information", *Book of Short Papers Cladag 2019*;
- Berrettini, M., Galimberti, G., Murphy, T. B., Ranciati, S., (2019), "Mixtures of experts with flexible concomitant covariate effects: a Bayesian solution", *Book of Short Papers Cladag 2019*;
- 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;

- 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;

- 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., 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.

**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*)

- 49th scientific meeting of the Italian Statistical Society (SIS2018), 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*)
  CMS-ERCIM 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",

  - CMS-ERCIM 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-September 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"; *teaching assistant:* "Bayesian Inference", "Probability I", "Statistical Models and Applications", "Applied Statistics";

**2017/2018:** *adjunct professor:* "Experimental Methodology And Data Analysis"; *teaching assistant:* "Bayesian Inference","Probability I", "Statistical Models and Applications", "Statistical Inference", "Applied Statistics";

**2016/2017:** *adjunct professor:* "Elements of Statistics"; *teaching assistant:* "Statistical Models and Applications", "Statistical Inference", "Applied Statistics";

**2015/2016:** *teaching assistant:* "Statistical Inference", "Applied Statistics";

**2014/2015:** *teaching assistant:* "Statistical Inference", "Applied Statistics";

**2013/2014:** *teaching assistant:* "Applied Statistics".

**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*).