Riccardo De Bin

Curriculum vitae

Department of Mathematics,
University of Oslo
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CURRENT POSITION

10.2016 – now **Associate Professor**, *Department of Mathematics, Section of Statistics and Biostatistics*, University of Oslo, Norway.

PAST POSITIONS

06.2016 – 09.2016 **Assistant Professor**, *Department of Health Evidence*, Radboud University Medical Centre, Netherlands.

05.2012 – 05.2016 **Postdoctoral Fellow**, *Department of Medical Informatics, Biometry and Epidemiology*, University of Munich, Germany.

03.2012 – 04.2012 **Research Assistant**, *Department of Statistical Sciences*, University of Padova, Italy.

10.2010 – 11.2011 **Predoctoral Fellow**, *Department of Statistics*, Northwestern University, Evanston (IL), USA.

EDUCATION

01.2009 – 04.2012 **PhD in Statistics**, *Department of Statistical Sciences*, University of Padova, Italy.

10.2005 – 10.2007 **Master Degree in Statistics and Computer Science**, *Faculty of Statistical Sciences*, University of Padova, Italy.

10.2002 – 07.2005 **Bachelor Degree in Statistics and Information Technology**, *Faculty of Statistical Sciences*, University of Padova, Italy.

LANGUAGE SKILLS

Italian (mother language), English (proficient user), German (independent user), Norwegian (independent user)

LIST OF PUBLICATIONS

STATISTICAL PAPERS

Belhechmi, S., **De Bin, R.**, Michiels, S. & Rotolo, F. (2019). Prise en compte des groupes de biomarqueurs ou des voies biologiques dans les modèles de Cox pénalisés de haute dimension. *Revue d'Épidémiologie et de Santé Publique*, 67: S134

De Bin, R. & Sauerbrei, W. (2018). Handling co-dependence issues in resampling-based variable selection procedures: a simulation study. *Journal of Statistical Computation and Simulation*, 88: 28–55

Seibold H., Bernau C., Boulesteix, A. L. & **De Bin, R.** (2018). On the choice and influence of the number of boosting steps. *Computational Statistics*, 33: 1195–1215

De Bin, R., Boulesteix, A. L. & Sauerbrei, W. (2017). Detection of influential points as a byproduct of resampling-based variable selection procedures. *Computational Statistics & Data Analysis*, 116: 19–31

Boulesteix, A. L., **De Bin, R.**, Jiang, X., Fuchs, M. (2017). IPF-lasso: integrative L_1-penalized regression with penalty factors for prediction based on multi-omics data. *Computational and Mathematical Methods in Medicine*, 2017:7691937

De Bin, R., Janitza, S., Sauerbrei, W. & Boulesteix, A. L. (2016). Subsampling versus bootstrap in resampling-based model selection for multivariable regression. *Biometrics*, 72: 272 – 280

De Bin, R. (2016). Boosting in Cox regression: a comparison between the likelihood-based and the model-based approaches with focus on the R-packages CoxBoost and mboost. *Computational Statistics*, 31: 513 – 531

De Bin, R. (2016), A note on the equivalence between conditional and random-effects likelihoods in exponential families. *Statistics & Probability Letters*, 110: 34 – 38

De Bin, R., Severini, T. A. & Sartori N. (2015). Integrated likelihoods in models with stratum nuisance parameters. *Electronic Journal of Statistics*, 7:1474 – 1491

De Bin, R., Sauerbrei, W. & Boulesteix A. L. (2014). Investigating the prediction ability of survival models based on both clinical and omics data: two case studies. *Statistics in Medicine*, 33:5310 – 5329

De Bin, R., Herold, T. & Boulesteix, A. L. (2014). Added predictive value of omics data: specific issues related to validation illustrated by two case studies. *BMC Medical Research Methodology*, 14:117

De Bin, R. & Risso, D. (2011). A novel approach to the clustering of microarray data via nonparametric density estimation. *BMC Bioinformatics*, 12:49 (Highly accessed)

Medical papers

van Gruting, I., Kluivers, K. B., Sultan, A. H., **De Bin, R.**, Stankiewicz, A., Blake, H. & Thakar, R. (2017). Has 4D transperineal ultrasound additional value over 2D transperineal ultrasound for diagnosing obstructed defaecation syndrome? *Ultrasound in Obstetrics & Gynecology*, doi: 10.1002/uog.19105

van Gruting, I., Stankiewicz, A., Kluivers, K. B., **De Bin, R.**, Blake, H., Sultan, A. H. & Thakar, R. (2017). Accuracy of four imaging techniques for diagnosis of posterior pelvic floor disorders. *Obstetrics and Gynecology*, 130: 1017–1024

Conference proceedings (refereed)

De Bin, R. (2017) Overview of topics related to model selection for regression. In: Ainsbury E., Calle M., Cardis E., Einbeck J., Gómez G., Puig P. (eds) *Extended Abstracts Fall 2015. Trends in Mathematics*, 7. Birkhäuser, Cham

De Bin, R. & Risso, D. (2010). A nonparametric algorithm for clustering microarray data. 45th *Scientific Meeting of the Italian Statistical Society*, ISBN 978 88 6129 566 7

Technical Reports

De Bin, R. & Scarpa B. (2014). Non-parametric Bayesian modeling of cervical mucus symptom. *LMU, Department of Statistics: Technical Reports 170*

Fuchs, M., Hornung, R., **De Bin, R.**, Boulesteix, A. L. (2013). A U-statistic estimator for the variance of resampling-based error estimators. *LMU, Department of Statistics: Technical Reports 148*

Other

De Bin, R. (2016). Referee Report for: Three general concepts to improve risk prediction: good data, wisdom of the crowd, recalibration [version 1; referees: 2 approved with reservations]. *F1000Research*, 5:2671

Conferences/Workshops/Seminars

Invited talks | CMStatistics (Pisa, 2018), Workshop on Distributed Computing, Differential Privacy and Boosting (Munich, 2018), FocuStat Conference 2018: Vårens Vakreste Variabler (Oslo, 2018), FocuStat Research Kitchen: From Processes to Models (Oslo, 2017), The Hon. Doc. Sylvia Richardson Workshop on Statistics for the Life Sciences (Oslo, 2017), International FocuStat Workshop: Bridging Parametrics and Nonparametrics (Oslo 2017), CMStatistics (London, 2015), DoReMi LD-RadStats (Barcelona, 2015), Modelli Bayesiani non parametrici e applicazioni (Padova, 2014), ERCIM (Oviedo 2012)

Talks | 27th Nordic Conference in Mathematical Statistics (Tartu, 2018), Workshop of Topic group 9 High-dimensional data of the STRATOS initiative (Dortmund, 2018), CMStatistics (London, 2017), Nordic-Baltic Biometric Conference (Copenhagen, 2017), Norske Satistikermøtet (Fredrikstad, 2017), International Biometrical Conference (Victoria, 2016), DAGStat (Göttingen, 2016), Joint Meeting of the Italian and Austro-Swiss Biometrical Societies (Milano, 2015), Biometrisches Kolloquium (Dortmund, 2015), Statistical Computing (Regensburg, 2014), International Biometrical Conference (Florence, 2014), ISCB (Munich, 2013), DAGStat (Freiburg, 2013), Likelihood, Approximate Likelihood and Nonparametric Statistical Methods for Complex Applications (Venice, 2012)

Seminars	Norwegian Institute of Public Health (Oslo, 2019), University of Udine (Udine, 2019), University of Gothenburg-Chalmers (Gothenburg, 2019), University Medical Center Freiburg (Freiburg, 2019), University of Padova (Padova, 2018), Ludwig-Maximilians-Universität (Munich, 2018), University of Oslo (Oslo, 2018), TU Dortmund University (Dortmund, 2018), Institut Gustave Roussy (Paris, 2017), University of Oslo (Oslo 2017), Ludwig-Maximilians-Universität (Munich, 2017), Radboud University Medical Center (Nijmegen, 2016), University Medical Center Freiburg (Freiburg, 2016), University College London (London, 2015), University of Padova (Padova, 2014)
Invited poster	Computational Life Sciences at Bayer (Berlin, 2015)
Posters	International Biometrical Conference (Barcelona, 2018), Leeds Annual Statistics Research Workshop (Leeds, 2011)

TEACHING EXPERIENCES

Norway	Machine Learning and Statistical Methods for Prediction and Classification (bachelor course), Statistical Learning Methods in Data Science (master), Advanced Statistical Methods (PhD), Statistical Learning: Advanced Regression and Classification (master), Modelling by Stochastic Processes (bachelor)
Netherland	Scientific Skills (master)
Germany	Recent Developments in Biostatistics (master), Introduction to R (master)
Italy	Statistics I (bachelor), Statistics II (bachelor)

SUPERVISION ACTIVITY

PhD	2 as main supervisor, 2 as co-supervisor (University of Oslo)
Master	8 (5 at the University of Oslo, 2 at the University of Munich, 1 at the Technical University of Munich)
Bachelor	4 (2 at the University of Oslo, 2 at the University of Munich)

EDITORIAL ACTIVITY

Reviewer for	Bioinformatics, Biometrical Journal, BMC Bioinformatics, BMC Medical Research Methodology, Biometrics, Computational and Mathematical Methods in Medicine, F1000Research, Journal of Applied Statistics, Journal of Computational and Graphical Statistics, Lifetime Data Analysis, Methods of Information in Medicine, Neuroscience Letters, Plos One, Scandinavian Journal of Statistics, Statistical Analysis and Data Mining, Statistics, Statistics and Computing, Statistics in Medicine

COMMISSIONS OF TRUST

2018 – now	Scientific Expert for the Italian Ministry of Education, Universities and Research (reviewer for "Programma Rita Levi Montalcini" and "PRIN 2017")
2019	Member of an "Adjudication Committees" for 4 Phd defences, University of Padova

Institutional Responsibilities

2018 – now	Member of the Board of the Master Program in Data Science, University of Oslo
2018 – now	Responsible for the Seminar Series in Statistics, University of Oslo
2016 – now	Member of 6 "Phd Recruiting" committees, University of Oslo
2018	Chair of 2 "Adjudication Committees" for Phd defences, University of Oslo
2016 – 2018	Member of 6 "Third Semester Phd Evaluation" committees, University of Oslo
2017	Member of 2 "Course Teaching" committees, University of Oslo
2011 – 2012	Student Representative in the PhD School Board, University of Padova

Funding

Scholarship	Italian Government (PhD scholarship, 2010 – 2012)
Projects	HPC resources (n. NN9480K, UNINETT Sigma2, 2017), AURORA (n. 294455, Norwegian Research Council, 2018)
As a key-collaborator	PerCaThe (University of Oslo), BO3139/4-2 (German Research Council)

Organization of Scientific Meetings

2019	Member of the International Organizing Committee and the Scientific Program Committee of the "21st European Young Statisticians Meeting", Belgrade, 2019
2017	Co-organizer of the "The Hon. Doc. Sylvia Richardson Workshop on Statistics for the Life Sciences", Oslo, 2017

Memberships of Scientific Society

2014 – now	International Biometric Society
2016 – now	STRATOS Group