

CATIA SCRICCILO

CURRICULUM VITAE

Contact Information

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Personal Information

Italian citizenship

Academic Positions

2015–present	ASSOCIATE PROFESSOR OF STATISTICS , Dept. of Economics, Univ. of Verona (IT)
2011–2012	VISITING ASSISTANT PROFESSOR affiliated at CREST-ENSAE, Paris (FR)
2007–2015	ASSISTANT PROFESSOR OF STATISTICS , Dept. of Decision Sciences, Bocconi Univ., Milan (IT)
2004–2007	RESEARCHER WITH GRANT IN STATISTICS , Inst. of Quantitative Methods, Bocconi Univ., Milan (IT)
2002–2004	POST DOCTORAL FELLOW IN STATISTICS , Dept. of Statistical Sciences, Univ. of Padua (IT)

Qualifications

<i>APR 2018</i>	ITALIAN NATIONAL QUALIFICATION FOR ASSOCIATE PROFESSOR IN “01/A3 ANALISI MATEMATICA, PROBABILITÀ E STATISTICA MATEMATICA”, VALIDITY 03/04/2018–03/04/2024
<i>MAR 2017</i>	ITALIAN NATIONAL QUALIFICATION FOR FULL PROFESSOR IN STATISTICS, “13/D1 STATISTICA”, VALIDITY 31/03/2017–31/03/2023
<i>FEB 2015</i>	FRENCH NATIONAL “QUALIFICATION AUX FONCTIONS DE MAÎTRE DE CONFÉRENCES, SECTION 26 – MATHÉMATIQUES APPLIQUÉES ET APPLICATIONS DES MATHÉMATIQUES”, VALIDITY UNTIL 31/12/2019
<i>OCT 2014</i>	WINNER OF AN ITALIAN ASSISTANT PROFESSORSHIP PUBLIC COMPETITION FOR 1 POSITION IN STATISTICS, “13/D1 STATISTICA, SSD SECS-S/01 STATISTICA”, Dept. of Economics and Statistical Sciences, Univ. of Salerno (IT)
<i>FEB 2014</i>	ITALIAN NATIONAL QUALIFICATION FOR ASSOCIATE PROFESSOR IN STATISTICS, “13/D1 STATISTICA”, VALIDITY 10/02/2014–10/02/2020

Education

- 2002 **PHD IN STATISTICS (DOTTORATO DI RICERCA IN STATISTICA)**, Dept. of Statistical Sciences, Univ. of Padua (IT).
- 1998 **DEGREE IN STATISTICS (LAUREA IN STATISTICA)**, Faculty of Statistical Sciences, Univ. of Rome “La Sapienza” (IT).

Research Interests

Nonparametric curve estimation

Mixture models

Large sample theory

Empirical Bayes procedures

Bayesian adaptation

Bayesian inverse problems

Information bounds and nonparametric maximum likelihood estimation

Articles in Refereed Journals

- **Scricciolo, C.** (2018). Bayes and maximum likelihood for L^1 -Wasserstein deconvolution of Laplace mixtures. *Statistical Methods & Applications*, **27**(2), 333–362. https://link.springer.com/article/10.1007/s10260-017-0400-4?wt_mc=alerts.TOCjournals&utm_source=toc&utm_medium=email&utm_content=10260&utm_campaign=#citeas
- Donnet, S., Rivoirard, V., Rousseau, J., **Scricciolo, C.** (2018). Posterior concentration rates for empirical Bayes procedures with applications to Dirichlet process mixtures. *Bernoulli*, **24**(1), 231–256. <http://projecteuclid.org/euclid.bj/1501142441>
- Donnet, S., Rivoirard, V., Rousseau, J., **Scricciolo, C.** (2017). Posterior concentration rates for counting processes with Aalen multiplicative intensities. *Bayesian Analysis*, **12**(1), 53–87. <https://projecteuclid.org/euclid.ba/1451333725>
- **Scricciolo, C.** (2015). Empirical Bayes conditional density estimation. *STATISTICA*, **LXXV**(1), 37–55. <http://rivista-statistica.unibo.it/article/view/5822/0>
- **Scricciolo, C.** (2015). Bayesian adaptation. *Journal of Statistical Planning and Inference*, **166**, 87–101. <http://authors.elsevier.com/a/1RcN11M25x-3Ky>
- Petrone, S., Rizzelli, S., Rousseau, J., **Scricciolo, C.** (2014). Empirical Bayes methods in classical and Bayesian inference. *METRON*, **72**(2), 201–215. <http://link.springer.com/article/10.1007/s40300-014-0044-1>
- **Scricciolo, C.** (2014). Adaptive Bayesian density estimation in L^p -metrics with Pitman-Yor or normalized inverse-Gaussian process kernel mixtures. *Bayesian Analysis*, **9**(2), 475–520. http://projecteuclid.org/download/pdfview_1/euclid.ba/1401148317
- Petrone, S., Rousseau, J., **Scricciolo, C.** (2014). Bayes and empirical Bayes: do they merge? *Biometrika*, **101**(2), 285–302. Supplementary material for “Bayes and empirical Bayes: do they merge?” *Biometrika*, 1–8. <http://biomet.oxfordjournals.org/content/early/2014/04/09/biomet.ast067.abstract>
- **Scricciolo, C.** (2011). Posterior rates of convergence for Dirichlet mixtures of exponential power densities. *Electronic Journal of Statistics*, **5**, 270–308. https://projecteuclid.org/download/pdfview_1/euclid.ejs/1303996031
- **Scricciolo, C.** (2008). A note on Bayesian nonparametric regression function estimation. *Statistical Methods & Applications*, **17**(3), 321–334. <http://link.springer.com/article/10.1007%2Fs10260-007-0064-6>
- **Scricciolo, C.** (2007). On rates of convergence for Bayesian density estimation. *Scandinavian Journal of Statistics*, **34**(3), 626–642. <http://onlinelibrary.wiley.com/doi/10.1111/j.1467-9469.2006.00540.x/abstract>
- **Scricciolo, C.** (2006). Convergence rates for Bayesian density estimation of infinite-dimensional exponential families. *The Annals of Statistics*, **34**(6), 2897–2920. https://projecteuclid.org/download/pdfview_1/euclid.aos/1179935069
- **Scricciolo, C.** (1999). Probability matching priors: a review. *Journal of the Italian Statistical Society*, **8**(1), 83–100. <http://link.springer.com/article/10.1007%2Fbf03178943>

Book Chapters

- **Scricciolo, C.** (2019). Bayesian Kantorovich Deconvolution in Finite Mixture Models. In: Petrucci A., Racioppi F., Verde R. (eds) *New Statistical Developments in Data Science. SIS 2017. Springer Proceedings in Mathematics & Statistics*, vol 288. Springer, Cham, pp. 119-134. https://doi.org/10.1007/978-3-030-21158-5_10
- **Scricciolo, C.** (2016). Rates for Bayesian Estimation of Location-Scale Mixtures of Super-Smooth Densities. In: Alleva G., Giommi A. (eds) *Topics in Theoretical and Applied Statistics. Studies in Theoretical and Applied Statistics*. Springer, Cham, pp. 49-57. https://doi.org/10.1007/978-3-319-27274-0_5
- Rousseau, J., Salomond, J.-B., **Scricciolo, C.** (2014). On some aspects of the asymptotic properties of Bayesian approaches in nonparametric and semiparametric models. *ESAIM: Proc.* **01/2014**, **44**, *Journées MAS 2012*, 159–171. <http://www.esaim-proc.org/articles/proc/pdf/2014/01/proc144410.pdf>

Refereed Publications in Conference Proceedings

- **Scricciolo, C.** (2020). Empirical Bayes estimation for mixture models. In: *Book of short papers-SIS 2020*, Pearson, pp. 667-672. ISBN 9788891910776.
- **Scricciolo, C.** (2017). Asymptotically efficient estimation in measurement error models. In: *SIS 2017. Statistics and Data Science: new challenges, new generations: 28-30 June 2017 Florence (Italy): proceedings of the Conference of the Italian Statistical Society / edited by Alessandra Petrucci, Rosanna Verde – Firenze: Firenze University Press, 2017. (Proceedings e report; 114)*, pp. 913-918. ISBN 978-88-6453-521-0.
- **Scricciolo C.** (2016). On Deconvolution of Dirichlet-Laplace Mixtures. In: *Proceedings of the 48th Scientific Meeting of the Italian Statistical Society, Atti di “SIS2016”*, Università degli Studi di Salerno, June 8th–June 10th, 2016, pp. 1-6. ISBN 9788861970618
- Donnet, S., Rivoirard, V., Rousseau, J., **Scricciolo, C.** (2014). On convergence rates of empirical Bayes procedures. Paper available at <http://www.sis2014.it/proceedings/allpapers/2918.pdf>
47th Scientific Meeting of the Italian Statistical Society, Cagliari, June 11–13, 2014, Proceedings, Editors: S. Cabras, T. Di Battista and W. Racugno. ISBN: 978-88-8467-874-4. © 2014 CUEC Cooperativa Universitaria Editrice Cagliaritana.
- **Scricciolo, C.** (2012). Rates for Bayesian estimation of location-scale mixtures of super-smooth densities. *Proceedings of the XLVI Scientific Meeting of the Italian Statistical Society*, Rome, 20–22 June 2012. Paper available at <http://meetings.sis-statistica.org/index.php/sm/sm2012/paper/viewFile/2230/110>
ISBN 9788861298828.
Extended version accepted for publication in the Springer Volume of the 46th Scientific Meeting of the Italian Statistical Society, Rome, 20–22 June 2012. Springer Volume of the International Series “Studies in Theoretical and Applied Statistics”.
- **Scricciolo, C.** (2007). A note on Bayesian density estimation. *Proceedings of the Intermediate Scientific Meeting of the Italian Statistical Society–Risk and Prediction, Venice, 6–8 June 2007*, pp. 579–580. Cleup-Padova. ISBN 9788861290938.
- **Scricciolo, C.** (2006). On Bayesian adaptive regression function estimation. *Proceedings of the XLIII Scientific Meeting of the Italian Statistical Society, Turin, 14–16 June 2006*, pp. 47–50, Cleup-Padova, ISBN 8871787919.
- **Scricciolo, C.** (2004). Asymptotic issues for Bayesian histograms. *Proceedings of the XLII Scientific Meeting of the Italian Statistical Society, Bari, 9–11 June 2004*, pp. 405–408. Cleup-Padova, ISBN 8871780345.

Non-refereed Publications in Conference Proceedings

- **Scricciolo, C.** (2009). Rates of convergence for Bayes estimators of mixtures of exponential power densities. In *S.Co.2009 Sixth Conference, Proceedings, Milan, 14–16 September 2009*, pp. 399–404. Maggioli Editore, ISBN 8838743851.
- **Scricciolo, C.** (2007). On a sub-optimality conjecture. In *S.Co.2007 Fifth Conference, Book of short papers, Venice, 6–8 September 2007*, pp. 457–462. Cleup-Padova, ISBN 9788861291140.
- **Scricciolo, C.** (2005). On Bayesian nonparametric regression function estimation. In *S.Co.2005 Fourth Conference, Book of short papers, Brixen, Italy, 15–17 September 2005*, pp. 413–418. Cleup-Padova.

Academic and Professional Activities

➤ **EDITORIAL ACTIVITY**

Associate Editor for *Statistics and Probability Letters* since 01/11/2014

Associate Editor for *Sankhya Series A, Math. Stat. and Prob.* since 01/01/2016

➤ **REFEREEING ACTIVITY**

ESAIM Probability & Statistics (2012); *The Annals of Statistics* (2010, 2011, 2012, 2013a, 2013b, 2014, 2015, 2016); *Bernoulli* (2005, 2015, 2017, 2021); *Electronic Journal of Statistics* (2008, 2010, 2012, 2013, 2014, 2016, 2018, 2020); *Journal of Statistical Planning and Inference* (2016); *Test* (2008); *Annales de l'Institut Henri Poincaré* (2009); *Annales de l'I.S.U.P.* (2003); *STATISTICA* (2015, 2017)

➤ **DOCTORAL COMMITTEE MEMBER**

- Doctoral Committee Member at Université Paris-Dauphine (FR), 17/10/2011. Defendant S. Khazaei. Advisor Prof. J. Rousseau
- Discussant of the master's thesis by S. Rizzelli, MSc in Economics and Social Sciences, Bocconi Univ. (IT), 31/03/2014. Advisor: Prof. S. Petrone

➤ **COMMITTEE MEMBER**

- 2015 (Bayesian Nonparametrics) BNP Section: Nominating Committee Member
- 2015, 2011 ISBA Savage Award Committee Member for the best doctoral dissertations in Bayesian Econometrics and Statistics

➤ **DEPARTMENTAL SERVICE ACTIVITIES**

- Responsible for the DEC Working Paper Series, Bocconi Univ., Milan (IT), 2009
- Member of the Faculty Council as DEC Assistant Professor Representative, Bocconi Univ., Milan (IT), 2007–2011
- Member of the PhD Board of the Program in Statistics, Bocconi Univ., Milan, IT, 2007–2011, 2014–2016
- Faculty member of The Student-Faculty Joint Teaching Committee (CPDS), School of Economics and Management, Univ. of Verona (IT), 2016–
- Member of the evaluation committee for the three-year AdR 2019, Selection AdR3266/19 for the award of a research grant “on a project basis”

➤ **ORGANIZATIONAL ACTIVITIES**

- Organizer of a short course on “Model Selection” delivered by Prof. G. Claeskens, K.U. Leuven, BE, 19/05/2011, PhD Program in Statistics, Bocconi Univ., Milan, IT
- Organizer and Chairman of the Specialized Session on "*Bayesian Nonparametrics*" at S.Co. 2011, Padua, IT, 19–21/09/2011
- Organizer of the following seminars at the Univ. of Verona (IT):
 - ✓ Eric Gautier, Univ. Toulouse 1 Capitole (FR)
 - ✓ Anna Simoni, CREST and CNRS-Paris (FR)
 - ✓ Ghislaine Gayraud, Université de Technologie de Compiègne (FR)
 - ✓ Vincent Rivoirard, Université Paris–Dauphine (FR)
 - ✓ Natalia Bochkina, Univ. of Edinburgh (UK)

Society Memberships

- *International Society for Bayesian Analysis (ISBA) dal 2009*
- *Società Italiana di Statistica (SIS) since 2004*
- *Unione Matematica Italiana (UMI) since 2020*

Verona, 16th March 2021

Catia Scricciolo