

ROUSSEAU Judith

48 years old, 3 children

Addresses

University of Oxford ,
Department of statistics
24-29 St Giles',
OX1 3LB, UK

email : judith.rousseau@stats.ox.ac.uk

Université de Dauphine,
CEREMADE
Place du Maréchal de Lattre de Tassigny
75775 Paris Cedex 16, France

Curriculum Vitae

Cursus:

Sept 2017- : Professor It University of Oxford, Statistics department.

Sept. 2004- : Professor at Université Paris Dauphine, Ceremade.

2009 -2014 : Professor at ENSAE (on leave from Université Paris Dauphine)

1998-2004 : Maître de conférence (associate professor) at Université de Paris 5, Department of biostatistics.

1997-1998: lecturer at ENSAE (Ecole Nationale de la Statistique et de l'Administration Economique)

1994-1997: PhD in Statistics at Université de Paris 6, grant from CREST.

supervisor: Christian Robert, Professor.

Title: *Asymptotic properties of Bayesian estimators*

1993-1994: DEA (MASTER) of "Statistics and stochastic calculus applied to Economy and finance, at Université Paris 7.

1991-1994 Studies at Ecole Nationale de la Statistique et de l'Administration Economique (ENSAE).

OTHER POSITIONS:

- Member of the statistic department of CREST since septembre 1994.

PhD supervisions :

I have supervised 4 PhDs which have already been defended:

- S. Khazaei (Université Paris Dauphine, 2011) , now lecturer in Iran.
- Julyan Arbel (Co - supervised with Ghislaine Gayraud) 2008-2013 : post-poctorate in Torino (Igor Pruenster), will start as researcher at INRIA in Lilles
- Jean-Bernard Salomond 2011-2014 : now lecturer in Université Paris - Créteil.
- 2011 – 2015: Zoé van Havre (Co-supervised with K. Mengersen (QUT- Australie)) now researcher in booking.com (Amsterdam)
- 2013-2016 : Elodie Vernet (Co- supervised with E. Gassiat, Orsay) 2012-2016 : she is Maître de conférence at Ecole Polytechnique
- 2013-2016 : Zacharie Naulet (co -supervised with E. Barat (CEA)) 2013 - 2016 : he is a post doctorate with D. Roy in Toronto

I am currently supervising

- Soufiane Hayou (Co-supevised with A. Doucet) : 2017 -
- Cian Naik (Co-supevised with F. Caron) : 2018 -
- Francesca Panero (Co-Supervised with F. Caron) 2018-

Post-doctorates

2009-2011 : Willem Kruijer
2012-2013 : Bartek Knapik
2013-2014 : Botond Szabo
2014-2015: William Yoo

Local administrative responsibilities:

- Member of the graduate research comittee at University of Oxford
- co-Head of the Master 2 Mash (Dauphine) 2016- 2017
- Head of the Master 2 TSI (Dauphine) in 2014-2015

- Head of the Master 1 of MIDO from 2005-2009
- Coordinator of the mathematics and statistics courses at ENSAE from 2009-2014
- Chair of the hiring committee in Dauphine in 2015.
- Member of the scientific committee of the comUE PSL since 2015.

International recognition/responsibilities:

Rewards:

- Ethel Newbold prize (Bernoulli Society) in 2015
- IMS fellow since 2015
- ISBA fellow since 2014
- IMS medallion lecture in 2017 (awarded in 2015)

Editorial activities: Associate editor of

- Annals of Statistics since 2009
- Australian and New Zealand Journal of Statistics since 2008
- Bernoulli since 2013
- Stat 2015-2017

Scientific responsibilities international societies:

- **at IMS** (Institute of mathematical Statistics):
IMS program secretary since 2012 and member of the executive board. Member of the "nominating committee" in 2003.
- **at ISBA** (International society of Bayesian Analysis):
Chair of the Savage committee (PhD award) in 2015
Board member 2010-2013
Member of the prize committee 2008-2012 and chair in 2009-2012
Secretary of the OBayes section of ISBA 2013-2015

- **at CRiSM** (Center for research in Statistical methodology, Warwick UK): Member of the CRiSM scientific council (Warwick, UK) since 2015.
- Member of the research council of the Swiss National science foundation

International Grant reviewer: EPSRC (UK), Canadian grants, Netherlands

International PhD and tenure track reviews: 4 PhD reviews (2 in the Netherlands, 1 in Norway, 1 in Australia), 2 review for a tenure track at Duke, 1 at Texas A& M

National responsibilities:

- Member of the Neveu award committee (prize for best PhD at SMAI): 2012, 2013, 2014.
- Member of the scientific committee of INRA since 2011
- Member of the PES committees 2010-2013
- Member of the HCERES (AERES) committee in 2016.

Workshops and conference organizations:

I was part of a number of scientific committees:

- ISBA (2008, 2010, 2016),
- Bayesian nonparametrics (2013)
- IMS world meeting (2016, 2018)
- IMS-APRM (2014, 2015, 2016)
- Chair of the scientific committee of the Journées de la SFDS 2016

I have organized a few conferences/workshops

- Organizer of 2 mini-workshops on Bayesian nonparametrics (Paris 2013 and Chamonix 2014)
- Organizer of the conference Bayesian nonparametrics 11 in 2017, Paris

- Part of the organizing committee for the OBayes conference in 2003, Aussois

Grants:

- leader on 2 ANR grants (SP- Bayes: 2007-2010 and Banhdits: 2010-2013)
- participation in a number of ANR grants (BigMC, IPANEMA, Calibration, etc)
- International exchange grant for the Royal Statistical Society (UK) with Natalia Bochkina (Edinburgh University) 2014-2017
- Contract with EDF (Recherche et Développement) on the modelling of failures on cables.

Teaching :

- 1st and 2nd years : Analysis (1st year) , courses in Excell and Splus, exercises sessions in mathematics et statistics (Paris 5)
- 3rd year : courses in mathematics (Paris 5), courses in statistiques for medical students (Paris 5), Courses in statistics et de simulations methods, in statistics for stochastic processus, in statistics (test theory) in Dauphine.
- Master 1 and 2: Linear models and its generalizations in M1 Dauphine, Markov chains in Master level (Paris 5), Bayesian non parametric statistics in M2 (Dauphine), Statistics for extremes in M2 (Dauphine)
- ENSAE : Bayesian Statistics (Master 2), Probability (1st year students = 3rd year at univ)
- OxWasp (Oxford- Warwick, PhD students) : Exponential inequalities with applications to Bayesian nonparametrics 2014, 2015

Publications

Refereed Journal Papers

1. *D. Frazier, G. Martin, C.P. Robert and J. Rousseau (2018) Asymptotic properties of approximate Bayesian computations. *Biometrika* , to appear .
2. *E. Gassiat, E. Vernet and J. Rousseau (2018) Efficient semiparametric estimation and model selection for multidimensional mixtures. *Electronic Journal of Statistics*, awaiting publication.

3. Benjamin, Daniel J. and Berger, James O, ... , V. E. Johnson (2018) Redefine significance. *Nature human behavior*, **vol. 2**, pp 6–10.
4. *S. Donnet, V. Rivoirard, J. Rousseau and C. Scricciolo (2018) Posterior concentration rates for empirical Bayes procedures, with applications to Dirichlet Process mixtures. *Bernoulli* , **24**, 231-256.
5. *N. Bochkina and J. Rousseau (2017) Adaptive density estimation based on a mixture of Gammas. *Electronic Journal of Statistics*, **11**, 916-962.
6. Z. Naulet and J. Rousseau (2017) Posterior concentration rates for mixtures of normals in random design regression . *Electronic Journal of Statistics*, **11** 40654102.
7. *J. Rousseau and B. Szabo (2017) Asymptotic behaviour of the empirical Bayes posteriors associated to maximum marginal likelihood estimator. *Annals of Statistics*, **45**, 833-865.
8. *S. Donnet, V. Rivoirard, J. Rousseau and C. Scricciolo (2017) Posterior Concentration Rates for Counting Processes with Aalen Multiplicative Intensities. *Bayesian Anal.*, **12** , Number 1, 5387.
9. J. Arbel, K. Mengersen and J. Rousseau (2016) Bayesian nonparametric dependent model for partially replicated data: the influence of fuel spills on species diversity *Annals of Applied statistics*, **10**, 1496-1516.
10. *J. Rousseau (2016) On the frequentist properties of Bayesian nonparametric methods. *Annual Statistical Reviews*. Vol. 3: 211231
11. *E. Gassiat and J. Rousseau (2016) : Nonparametric finite translation hidden Markov models and extensions. *Bernoulli* **22**, 193-212.
12. *S. Donnet and J. Rousseau (2016) : Bayesian inference for partially observed branching processes. *Bayesian Anal.* **11**, 151-190.
13. *I. Castillo and J. Rousseau (2015). A general Bernstein von Mises Theorem in semi-parametric models. *Annals of statistics*. **43**, 2353-2383.
14. *M. Hoffman, J. Rousseau and Johannes Schmidt-Hieber (2015) : On adaptive posterior concentration rates. *Annals of statistics*, **43**, 2259-2295.

15. Z. van Havre, N. White, K. Mengersen and J. Rousseau (2015) Overfitting Bayesian Mixture Models with an Unknown Number of Components. *PLoS ONE* 10
16. *Choi, T. and Rousseau, J. (2015). A note on Bayes factor consistency in partial linear models, *Journal of Statistical Planning and Inference*, **166**, 158-170.
17. Wraith D, Mengersen K, Alston, C., Rousseau J. and Hussein T. (2014) : Using informative priors in the estimation of mixtures over time with application to aerosol particle size distribution. *Annals of applied statistics*, **8**, 232-258.
18. *S. Petrone, J. Rousseau and C. Scricciolo (2014) : Bayes and empirical Bayes : Do they merge? *Biometrika* **101** 285-302.
19. S. Petrone, S. Rizzeli, J. Rousseau and C. Scricciolo (2014) : Empirical Bayes methods in classical and Bayesian inference *Metron* **72**, 201215.
20. * J.M. Marin, N. Pillai, C.P. Robert and J. Rousseau (2014) : Relevant statistics for Bayesian model choice. *JRSS B* **76**, 833859 .
21. *E. Gassiat and J. Rousseau (2014) : About the asymptotic behaviour of the posterior distribution in hidden Markov Models. *Bernoulli*, **20**, 2039-2075.
22. *W. Kruijer and J. Rousseau (2013) : Bayesian semi-parametric estimation of the long-memory parameter under FEXP-priors. *EJS*, **7**, 2947-2969.
23. N. Chopin, J. Rousseau and B. Liseo (2013) Computational aspects of Bayesian spectral density estimation. *JCGS*, **22**, 533- 557.
24. *J. Arbel, G. Gayraud and J. Rousseau (2013) Bayesian optimal estimation using a sieve prior. *Scandinavian J. Statist.*, **40** 549570.
25. Gelman, A., Robert, C.P., and Rousseau, J. Inherent difficulties of non-Bayesian likelihood-based inference, as revealed by an examination of a recent book by Aitkin. *Statistics & Risk Modeling*, **30**, 1001-1016
26. * Rivoirard, V. and Rousseau, J. (2012) :Bernstein Von Mises Theorem for linear functionals of the density. *the Annals of Statistics*, **40**, 1489-1523.
27. *I. Albert, S. Donnet, C. Guihenneuc-Jouyaux, S. Low-Choi, K. Mengersen and J. Rousseau (2012) Combining expert opinions in prior elicitation. *Bayesian Analysis - discussed paper*, **7**, 503-532.

28. *J. Rousseau, N. Chopin and B. Liseo (2012) Bayesian nonparametric estimation of the spectral density of a long or intermediate memory Gaussian process. *Annals of Statistics*, **40**, 964-995.
29. *McVinish, R. Mengersen, K., Rousseau J., Nur, D. and Guihenneuc C. (2012) : Recentered importance sampling with applications to Bayesian model validation. *Journ. Comput. Graph. Statist.* DOI: 10.1080/10618600.2012.681239
30. *V. Rivoirard and J. Rousseau (2012) Posterior concentration rates for infinite dimensional exponential families. *Bayesian Analysis* **7**, 311-334.
31. *Lieberman, O., R. Rosemarin, Rousseau, J. (2012) : Asymptotic Theory for Maximum Likelihood Estimation of the memory parameter in stationary Gaussian processes *Econometric Theory*, **28**, 457-470.
32. *J. Rousseau and K. Mengersen (2011) Asymptotic behaviour of the posterior distribution in overfitted models. *J. Royal Statist. Soc. B* **73**, 689-710.
33. *W. Kruijer, J. Rousseau and A. van der Vaart (2010) : Adaptive Bayesian Density Estimation with Location-Scale Mixtures . *Electronic Journal of Statistics*, **4**, 1225-1257.
34. D. Gadja, C. Guihenneuc, J. Rousseau, K. Mengersen and D. Nur (2010): Use in practice of importance sampling for repeated MCMC for Poisson models. *Elect. Journ. Statist.* **4**, 361-383.
35. *Rousseau, J. (2009) Rates of convergence for the posterior distributions of mixtures of betas and adaptive nonparametric estimation of the density. *Annals of Statist.* **38**, 146-180.
36. C.P. Robert, N. Chopin and J. Rousseau (2009) : Harold Jeffreys' theory of probability revisited. *Statistical Science*, **24**, 141-172.
37. *R. McVinish, J. Rousseau and K. Mengersen (2009): Bayesian Goodness-of-Fit Testing with Mixtures of Triangular Distributions. *Scandinavian journal of statistics* , **36**, 337354 .
38. Nur Darfiana, Allingham David, Rousseau J, Mengersen K L and McVinish (2008): Bayesian analysis of DNA sequence segmentation: A prior sensitivity analysis . *Comp. Statist. Data Anal.*, **60**, 573581 .

39. S.L. Choy, K. Mengersen, J. Rousseau (2008): Encoding Expert Opinion on Skewed Non-Negative Distributions. *Journ. Appl. Probab. Statist.* **3**, 1-21.
40. *A. Chambaz and J. Rousseau (2008): Bounds for Bayesian order identification with application to mixtures. *Annals of Statistics*, **36**, 938-962
41. *D. Fraser and J. Rousseau (2008) : Studentization and the determination of p-values. *Biometrika* **95**, 1-16.
42. I. Albert, E. Grenier, J.B. Denis et J. Rousseau (2007) : Quantitative Risk Assessment from Farm to Fork and Beyond: a global Bayesian approach concerning food-borne diseases. *Risk Analysis*. 28:2, 558-571.
43. P. Muller, C. Robert and J. Rousseau (2006) : Sample Size Choice for Microarray Experiments In Bayesian Inference for Gene Expression and Proteomics. (eds. K.-A. Do, P.Muller and M.Vannucci). *Cambridge University Press*.
44. *G. Gayraud et J. Rousseau (2005): Rates of convergence for a Bayesian level set estimation. *Scand. Journ. Statist.* **14**, 1, 75-94
45. *G. Gayraud et J. Rousseau (2005): Consistency results on nonparametric Bayesian estimation of level sets using spatial priors. *Test*.
46. *C. Guihenneuc et J. Rousseau (2005): Laplace expansions in MCMC algorithms. *Journal of Computational and Graphical Statistics*. **32** (4), 639-660.
47. *P. Muller, G. Parimigiani, C. Robert et J. Rousseau : Optimal sample sizes for multiple testing (2004): the case of gene expression microarrays. *J.A.S.A., T. & M.* **99**, 990-1001.
48. *O. Lieberman, J. Rousseau, D. Zucker (2003): Valid asymptotic expansions for the maximum likelihood estimator of the parameter of a stationary, Gaussian, strongly dependent process, *Annals of Statistics*, **31**, 586-612.
49. *A. Philippe, J. Rousseau (2003) : Non-informative priors for Gaussian long-memory processes, *Bernoulli*, **8**, 451-473.
50. *J. Rousseau (2002) : Coverage properties of HPD regions in the discrete case, *Journal of Multivariate Analysis*, **83**, 1-21.

51. *M. Ghosh, J. Rousseau, D. Kim (2001) : Non-informative priors for the bivariate Fieller-Creasy problem, *Statistics and Decisions*, **19**, No. 3, 227.
52. *O. Lieberman, J. Rousseau, D. Zucker (2001) : Small sample asymptotics for the sample autocorrelation function under long-range dependence, *Econometric theory*, **17**, No.1, 257-275.
53. O. Lieberman, J. Rousseau et D. Zucker (2000) : Small sample Likelihood-based inference in the ARFIMA model, *Econometric theory*, **16**, No. 2, 231-248 .
54. *J. Rousseau (2000) : Coverage properties of one-sided intervals in the discrete case and applications to matching priors, *Annals of the Institute of statistical mathematics*, **52**, no 1, 28-42.
55. *J. Rousseau (1997) : Asymptotic Bayes risk for a general class of losses, *Statistics and Probability Letters*, **35**, 115-121.

Conference papers : invited

1. *J. Rousseau (2006) : Approximating Interval hypothesis : p-values and Bayes factors. *Bayesian Statistics 8* (J. M. Bernardo, J. O. Berger, A. P. Dawid and A. F. M. Smith, eds.) Oxford: University Press.
2. D. Zucker, J. Rousseau, A. Philippe et O. Lieberman (2003) : Asymptotic expansions for long-memory stationary Gaussian processes. In *Foundations of Statistical Inference*, Y. Haitovsky, H.R. Lerche, Y. Ritov (eds.). Physica-Verlag, Heidelberg.

Submitted articles

1. *David T. Frazier, Christian P. Robert and Judith Rousseau (2018) Model Misspecification in ABC: Consequences and Diagnostics
2. *S. Donnet, V. Rivoirard and J. Rousseau (2018) Nonparametric Bayesian estimation of multivariate Hawkes processes.
3. *F. Caron, J. Rousseau (2017) On sparsity and power-law properties of graphs based on exchangeable point processes
4. *Rousseau, J. and Szab, B. (2016). Asymptotic frequentist coverage properties of Bayesian credible sets for sieve priors in general settings.

5. *Z. van Havre, J. Rousseau, N. White and K. Mengersen (2015) Overfitting hidden Markov models with an unknown number of states (Bayesian Analysis)
6. *K. Kamary, K. Mengersen, C. Robert and J. Rousseau (2014) Testing hypotheses as a mixture estimation model (read paper JRSSB)
7. Zo van Havre, Nicole White, Judith Rousseau, Kerrie Mengersen (2015) Clustering action potential spikes: Insights on the use of overfitted finite mixture models and Dirichlet process mixture models

Book chapters:

1. N. White, H. Johnson, P. Silburn, J. Rousseau and K. Mengersen (2012) : Hidden Markov models for complex stochastic processes: A case study in electrophysiology. In *Case Studies in Bayesian Statistical Modelling and Analysis*
2. *Robert, C.P, Marin, J.M. and Rousseau, J. (2010) *Bayesian inference*. In Handbook of Statistical Systems Biology.

Discussions

1. *Rousseau, J. and Robert, C.P. (2016) Invited discussion on 'A Bayesian information criterion for singular models' by M. Drton & M. Plummer JRSSB read paper.
2. *Robert, C.P. and Rousseau, J. (2016) Nonparametric Bayesian clay for robust decision bricks. Discussion of "Approximate models and robust decisions" by J. Watson and C. Holmes. *Statistical Science*
3. *Rousseau, J. (2015) Discussion of "Frequentist coverage of adaptive Bayesian credible sets" by Szabo, B., van der Vaart, A. and van Zanten, H.; *Annals of Statistics*
4. *Rousseau, J. (2015) Discussion of "Overall Objective Priors", by J.O. Berger, J.M. Bernardo, and D. Sun; *Bayesian Analysis*
5. *Rousseau, J. and Robert, C.P. (2011) Discussion on Consonni and LaRocca's On moment priors for Bayesian model choice. *Bayesian Statistics 9*
6. *C.P. Robert and J. Rousseau (2006) : Comments on: Intrinsic credible regions: an objective Bayesian approach to interval estimation, by J. M. Bernardo. *TEST* **14**, 317-384.

7. *J. Rousseau (2004): Discussion sur : Bayesian inference for Elliptical linear models: Conjugate analysis and model comparison by C.R.B. Arellano-Valle, P. Iglesias, I. Vidal, *Bayesian Statistics 7*, eds J. M. Bernardo et al., Amsterdam: North Holland.
8. *C. Robert et J. Rousseau (2004) : Discussion sur : Bayesian and Frequentist Multiple Testing, de C. Genovese et L. Wasserman. *Bayesian Statistics 7*, eds J. M. Bernardo et al., Amsterdam: North Holland

Conferences :

internationals invited conferences since 2008:

- **Sept 2018** Invited at the conference for the 80th anniversary of A. Hawkes, Swansea.
- **July 2018** Keynote speaker at BayesM, Warwick
- **June 2018** Foundation lecture at the ISBA world meeting, Edinburgh
- **June 2018** Keynote speaker at the ISNPS conference, Salerne, Italy.
- **April 2018** Invited speaker at the workshop on Uncertainty quantification , at Leiden , Netherlands.
- **Jan 2018** Invited conference (and invited participant for the 6 month program) at the Isaac Newton institute, Cambridge on scalable inference.
- **dec 2017** Invited at the Bayesian nonparametric workshop at BIRS - Oaxaca
- **Aug 2017** Medallion Lecture at JSM, Baltimore.
- **July 2017** Keynote speaker at Greek Stochastics
- **July 2017** Keynote speaker at Luminy's workshop on modern statistics
- **March 2017** Invited and speaker at Oberwolfach on *algebraic statistics*
- **Feb 2017** invited discussant at BIRS-Banff on Approximate Bayesian Computation
- **sept 2016** Invited discussion on 'A Bayesian information criterion for singular models' by M. Drton & M. Plummer RSS read paper.
- **july 2016** IMS World meeting : Ethel Newbold plenary conference : On Bayesian measures of uncertainty in highdimensional models
- **june 2016** ISBA world meeting (Cagliari): asymptotic coverage of credible balls in nonparametric models
- **may 2016** Journées du Sud (Montpellier): Mini course on Bayesian asymptotics in high dimensions
- **April 2016** Workshop on hypothesis testing (Toulouse) : Mixture approach for testing
- **February 2016** CIRM conference on Bayesian statistics : Semi-parametric estimation in mixture models
- **august 2015** JSM-IMS (Seattle) : Semi-parametric estimation in mixture models
- **july 2015** EMS (Amsterdam) : Nonparametric mixtures of Gamma densities

- **June 2015** Bayesian nonparametric workshop (Raleigh, USA): Bayesian nonparametric methods for Hawkes processes
- **June 2015** BISP workshop (Istanbul, Turquie): Bayesian nonparametric methods for Hawkes processes
- **June 2015** O'Bayes workshop (Valencia, Spain): Tutorial on Bayesian asymptotics in high dimensions
- **May 2015** Oberwolfach
- **May 2015** Symposium MIT : frequentist properties of Bayesian nonparametric methods
- **March 2015** Spring school "structural inference, Sylt, Allemagne. Mini course
- **Nov. 2014** Bayes on the beach, Australie. Keynote speaker
- **July 2014** ISBA World meeting , Cancun . On Bayesian nonparametric tests
- **June 2014** Cagliari, Italian conference . On Bayesian nonparametric tests
- **May 2014** Conference in honour of Malay Ghosh- discussant of Don Fraser
- **May 2014** Abel Symposium (Lofoten, Norway). On posterior concentration rates for empirical Bayes procedures
- **March 2014** Oberwolfach.
- **Dec 2013** workshop on Objective Bayes : Asymptotic posterior distribution for HMM models with unknown number of components
- **Dec 2013** ERCIM (London) : On posterior concentration rates for empirical Bayes procedures
- **June 2013** Keynote speaker at the Bayesian nonparametric conference, Amsterdam. Recent advances on frequentist properties of Bayesian nonparametric methods.
- **May 2013** workshop on ABC methods. On the choice of summary statistics for model choice with ABC.
- **march 2013** Invitée au workshop : Recent advances in statistical inference: theory and case studies. Discussion du papier de Aad van der Vaart.
- **January 2013** International workshop on Bayesian model choice (Shanghai, Chine). On the consistency of Bayes factors.
- **January 2013** International workshop on Bayesian theory and applications (Varanasi, Inde). On posterior adaptation - the impact of the loss function.
- **June 2012** Organiser of a session at : ISBA world meeting (Kyoto, Japon)
- **June 2012** Talk at ISBA world meeting (Kyoto, Japon). On the choice of summary statistics for model choice with ABC.
- **May 2012** 1st conference of the international society of nonparametric statistics (Chalkidiki, Grèce). Bayes - empirical Bayes : do they merge?
- **March 2012** Oberwolfach (The frontiers of Nonparametrics (A. Munk, T. Cai, P. Bühlman, B. Yu))

Talk : Some remarks on the problem of bias in Bayesian semi-parametrics .

- **Sept. 2011** Oberwolfach : Semi-parametric and very - high dimensions (org. J. Wellner and A. van der Vaart)
- **June 2011** Workshop on Bayesian nonparametrics (Vera-Cruz, Mexico). Bernstein von Mises Theorem for general smooth functionals of a curve.
- **Dec. 2010** London ERCIM. *Rates of convergence under partially improper priors*
- **June 2010** Torino (Italy) Invited conference. Bayesian nonparametric workshop on *Nonparametric estimation of the spectral density in long memory processes*
- **March 2010** San Antonio (USA) In Honor of Jim Berger . *Asymptotic properties of the posterior distribution under overspecified mixture models*
- **June 2009** Torino (Italy) Invited conference. Bayesian nonparametric workshop on *Mixtures of Betas densities*
- **June 2009** Philadelphia (US) Invited conference O'Bayes workshop on *Bernstein Von Mises Theorem for linear functional of the density*
- **March 2009** Warwick (UK) invited conference on MCMC: *Use of importance sampling with MCMC iterations*
- **December 2008** Paris. Workshop on Bayesian non parametric. *Bernstein Von Mises Theorem for linear functional of the density*
- **August 2008** JSM. (Denver, U.S.) Invited conference on *Combining expert knowledge in prior elicitation*
- **July 2008** ISBA (Hamilton Island, Australia) Invited conference on *Combining expert knowledge in prior elicitation*
- **May 2008** SFDS-SSC meeting (Ottawa, Canada) Invited conference on *Rates of convergence under partially improper priors*
- **January 2008** AGROSTAT. Invited conference on *Combining expert knowledge in prior elicitation*

Invited seminars since 2008:

2015 Vienne (Autriche)

2014 Toulouse, Turin, Séminaire parisien

2013 Harvard , Oxford

2012 Wharton School (USA)

2011 CREST, Cambridge (UK)

2010 Orsay, Compiègne , QUT (Brisbane),

2009 Bocconi (Italy)

Visits since 2008:

Invited at QUT (Brisbane, Australie, Pr. K. Mengersen) regularly : 2004, 2006, 2009, 2011

2009-2011 Invited at Seoul University and at Corea University : 2009, 2011

2010 - 2011 Invitated regularly at Bocconi Universitiy (Italy)

regular visits in Oxford since 2014