

**Jean-Michel MARIN**

Updated on March, 2020

French Nationality  
Born April 22, 1974  
Married, 2 children

University of Montpellier  
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**Professor of Statistics**  
**Head of the Alexander Grothendieck Montpellier Institute**  
**Vice dean of the Faculty of Sciences of Montpellier**  
**Head of the French Statistical Society**

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**Career**

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*since 2008* University of Montpellier (Montpellier, France)  
**Professeur of Statistics**  
Alexander Grothendieck Montpellier Institute

*2004 - 2008* INRIA Saclay Île-de-France, Project SELECT  
**Researcher**  
Mathematics Institute, University Paris-Saclay (Orsay, France)

*2002 - 2004* University Paris Dauphine (Paris, France)  
**Assistant Professor**  
CEREMADE

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## Education

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- 2007* **Qualification for directing research**  
University Paris Dauphine, December 14, 2007  
*Adaptive Monte Carlo Methods and Bayesian Statistics*
- 2001* **PhD Thesis in Applied Mathematics** pathway Statistics and Probability  
University Paul Sabatier (Toulouse, France), October 26, 2001  
*Statistics of linear band-diagonal covariance structure models*
- 1997* **Research Master's Degree in Applied Mathematics**  
pathway Statistics and Probability  
University Paul Sabatier
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## Key Responsibilities

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- since 2018* Head of the French Statistical Society  
Scientific Society in the field of Mathematics  
about 1,000 individual members
- since 2018* Vice dean of the Faculty of Sciences of Montpellier  
in charge of the scientific policy, about 9,000 students
- since 2015* Head of the Alexander Grothendieck Montpellier Institute  
UMR CNRS 5149, more than 100 permanent members
- 2010 - 2015* Co-head of the the Institute of Mathematics and Modeling of Montpellier  
UMR CNRS 5149
- 2006 - 2011* Secretary of the French Statistical Society
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## Teaching activities

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Statistics and probability fields, broad spectrum, various audiences...

**Non-exhaustive list of teachings for which I was entirely responsible  
since 2008 at the Faculty of Sciences of Montpellier**

- since 2019* Course of Bayesian Statistics  
Master's Degree in Biostatistics
- since 2015* Course/Practical of Scoring  
Master's Degree in Mathematics of Information and Decision
- since 2015* Course/Practical of Generalized Linear Models  
Master's Degree in Mathematics of Information and Decision
- 2011 - 2015* Course/Practical of Computational Statistics  
Master's Degree in Biostatistics
- 2008 - 2015* Course/Practical of Monte Carlo Methods and Stochastic Algorithms  
Master's Degree in Biostatistics
- 2008 - 2015* Course Mathematical Risk Analysis  
Master's Degree in Decision
- 2008 - 2014* Course/Practical Mathematical Statistics  
Undergraduate's Degree in Mathematics

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**Teaching responsibilities**

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- 2010 - 2013* **Head of the Master's Degree in Mathematics, Statistics and Applications**  
University of Montpellier
- 2009 - 2011* **Head of the Master's Degree in Biostatistics**  
University of Montpellier

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**Research activities**

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Bayesian statistics, model choice  
Approximate Bayesian Computation methods  
Monte Carlo and importance sampling methods, Population genetics

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## Networks

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- since 2018* IMAG project leader of the ANR project **ABSint** led by Christian Robert  
Approximate Bayesian solutions for the interpretation of large  
datasets and complex models - ABSint
- since 2018* Head of the I-Site MUSE **Data and Life Sciences Key Initiative**  
funding of 410,000 euros for two years, renewable
- 2012 - 2018* member of the steering committee of the **Institute of Computational Biology**  
co-responsible of the axis: scaling-up axis evolutionary analyses  
PIA led by Olivier Gascuel (2012 - 2015) and Éric Rivals (2015 - 2018)
- 2010 - 2015* member of the steering committee of the **LabEx NUMEV**  
Digital and Hardware Solutions and Modeling for the Environnement  
and Life Sciences
- 2009 - 2014* porteur I3M projet ANR project **EMILE**, led by Renaud Vitalis  
succeeding Jean-Marie Cornuet in 2012  
Statistical inference in population genetics
- 2008 - 2012* member of the ANR project **BIG'MC**, led by Gersende Fort  
Monte-Carlo methods in large dimensions
- 2005 - 2008* member of the ANR project **MISGEPOP**, led by Jean-Marie Cornuet  
Statistical Inference in Population Genetics
- 2005 - 2008* member of the ANR project **ADAP'MC**, led by Éric Moulines  
Adaptive Monte-Carlo methods
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## Editorial responsibilities

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- since 2018* **Associate Editor of Bayesian Analysis**
- since 2009* **Associate Editor of the Journal the French Statistical Society**

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## Supervision of PhD theses

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- 2016 - 2019 **Louis Raynal**, *Statistical inference for intractable likelihood models*  
Thesis defended on September 2019, University of Montpellier  
**Post-Doctorant, Harvard University**
- 2012 - 2015 **Julien Stoehr**, *Statistical methods for Gibbs random fields*  
Thesis defended on October 2015, University of Montpellier  
**Assistant Professor, University Paris Dauphine**
- 2009 - 2012 **Mohammed Sedki**, *Adaptive importance sampling and approximate Bayesian methods applied to population genetics*  
Thesis defended on October 2012, University of Montpellier  
**Assistant Professor, University Paris-Saclay**
- 2007 - 2010 **Pierre Barbillon**, *Experimental designs for computer experiments*  
Thesis defended on November 2010, University Paris-Sud  
**Assistant Professor, AgroParisTech**
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## Co-supervision of PhD theses

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- depuis oct. 2018 **Raphaël Romero**, *Prediction of transcription factor binding sites*  
defense planned for the end of 2021
- 2015 - 2018 **May Taha**, *Probing sequence-level instructions for gene expression*  
Thesis defended on October 2018, University of Montpellier  
**Research Engineer at BIOASTER**
- 2013 - 2016 **Coralie Merle**, *New Methods for Inferring Population History from Genetic Data*  
Thesis defended on December 2016, University of Montpellier  
**Secondary School Teacher**
- 2006 - 2009 **Jean-Patrick Baudry**, *Selection of models for unsupervised classification, choice of number of components*  
Thesis defended on December 2009, University Paris-Saclay  
**Assistant Professor, University Sorbonne University**

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## Scientific and Organizing Committees

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- 2016* chairman of the Organizing Committee of the **47th Statistics Days**, Montpellier
- 2014* chairman of the Scientific Committee of the **45th Statistics Days**, Rennes
- 2013* member of the Scientific Committee of the **44th Statistics Days**, Toulouse
- 2012 - 2014* member of the Scientific and Organizing Committees **Workshops MCEB** Mathematical and Computational Evolutionary Biology  
June 2012, May 2013 and June 2014, Montpellier
- 2009* member of the Scientific Committee of the **41th Statistics Days**, Bordeaux
- 2008* member of the Organizing Committee of the **40th Statistics Days**, Ottawa
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## Software

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2. R library abcrf (version 1.8.1, Octobre 2019) Approximate Bayesian Computation via Random Forests
  1. DIYABC (version 2.1.0, July 2015) a user-friendly approach to Approximate Bayesian Computation for inference on population history using molecular markers
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## Publications list

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### Qualification for directing research

**Marin** (2007) *Adaptive Monte Carlo Methods and Bayesian Statistics*  
University Paris Dauphine

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## PhD Thesis

**Marin** (2001) *Statistics of linear band-diagonal covariance structure models*  
University Paul Sabatier, Toulouse

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## Books (2)

2. **Marin** and Robert (2014) **Bayesian Essentials with R**, Springer Texts in Statistics, Springer, New York
  1. **Marin** and Robert (2007) **Bayesian Core: A Practical Approach to Computational Bayesian Statistics**, Springer Texts in Statistics, Springer, New York
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## Publications in international peer-reviewed journals (41)

41. Chapuis, Raynal, Plantamp, Meynard, Blondin, **Marin** and Estoup (2020) A young age of subspecific divergence in the Desert locust *Schistocerca gregaria*, inferred by ABC Random Forest, **peer-reviewed and recommended by PCI Evolutionary Biology**
40. **Marin**, Pudlo and Sedki (2019) Consistency of Adaptive Importance Sampling and Recycling Schemes, **Bernoulli**, 25(3), 1977-1998
39. Raynal, **Marin**, Pudlo, Ribatet, Robert and Estoup (2019) ABC random forests for Bayesian parameter inference, **Bioinformatics**, 35(10), 1720-1728
38. Bessièrè, Taha, Petitprez, Vandell, **Marin**, Bréhélin, Lèbre and Lecellier (2018) Probing instructions for expression regulation in gene nucleotide compositions, **PLOS Computational Biology**, 14(1), e1005921
37. Fraimout, Debat, Fellous, Hufbauer, Foucaud, Pudlo, **Marin**, Price, Cattell, Chen, Deprá, Duyck, Guedot, Kenis, Kimura, Loeb, Loiseau, Martinez-Sañudo, Pascual, Polihronakis, Richmond, Shearer, Singh, Tamura, Xuéreb, Zhang and Estoup (2017) Deciphering the Routes of invasion of *Drosophila suzukii* by Means of ABC Random Forest, **Molecular Biology and Evolution**, 34 (4), 980-996
36. Stoehr, **Marin** and Pudlo (2016) Hidden Gibbs random fields model selection using Block Likelihood Information Criterion, **Stat**, 5(1), 158-172

35. Pudlo, **Marin**, Cornuet, Estoup, Gautier and Robert (2016) Reliable ABC model choice via random forests, **Bioinformatics**, 32(6), 859-866
34. Auffray, Barbillon and **Marin** (2014) Bounding rare event probabilities in computer experiments, **Computational Statistics and Data Analysis**, 80, 153-166
33. Cornuet, Pudlo, Veyssier, Dehne-Garcia, Gautier, Leblois, **Marin** and Estoup (2014) DIYABC v2.0: a software to make Approximate Bayesian Computation inferences about population history using Single Nucleotide Polymorphism, DNA sequence and microsatellite data, **Bioinformatics**, 30(8), 1187-1189
32. **Marin**, Pillai, Robert and Rousseau (2014) Relevant statistics for Bayesian model choice, **Journal of the Royal Statistical Society, Series B**, 76(5), 833-859
31. Cucala and **Marin** (2013) Bayesian Inference on a Mixture Model With Spatial Dependence, **Journal of Computational and Graphical Statistics**, 22(3), 584-597
30. Auffray, Barbillon and **Marin** (2012) Maximin design on non hypercube domain and kernel interpolation, **Statistics and Computing**, 22(3), 703-712
29. Besnard, Babled, Lapasset, Milhavet, Parrinello, Dantec, **Marin** and Lemaitre (2012) Unraveling cell type-specific and reprogrammable human replication origin signatures associated with G-quadruplex consensus motifs, **Nature Structural and Molecular Biology**, July 1
28. Celeux, El Anbari, **Marin** and Robert (2012) Regularization in regression: comparing Bayesian and frequentist methods in a poorly informative situation, **Bayesian Analysis**, 7(2), 477-502
27. Cornuet, **Marin**, Mira and Robert (2012) Adaptive Multiple Importance Sampling, **Scandinavian Journal of Statistics**, 39(4), 798-812
26. Donnet and **Marin** (2012) An empirical Bayes procedure for the selection of Gaussian graphical models, **Statistics and Computing**, 22(5), 1113-1123
25. Estoup, Lombaert, **Marin**, Guillemaud, Pudlo, Robert and Cornuet (2012) Estimation of demo-genetic model probabilities with Approximate Bayesian Computation using linear discriminant analysis on summary statistics, **Molecular Ecology Resources**, 12(5), 846-855
24. **Marin**, Pudlo, Robert and Ryder (2012) Approximate Bayesian Computation methods, **Statistics and Computing**, 22(6), 1167-1180
23. Robert, Cornuet, **Marin** and Pillai (2011) Lack of confidence in approximate Bayesian computation model choice, **Proceedings of the National Academy of Science**, 108(37), 15112-15117



22. Iacobucci, **Marin** and Robert (2010) On variance stabilisation by double Rao-Blackwellisation, **Computational Statistics and Data Analysis**, 54, 698-710
21. Jouini, **Marin** and Napp (2010) Discounting and Divergence of Opinion, **Journal of Economic Theory**, 145(2), 830-859
20. **Marin** and Robert (2010) On resolving the Savage-Dickey paradox, **Electronic Journal of Statistics**, 4, 643-654
19. Beaumont, Cornuet, **Marin** and Robert (2009) Adaptive approximate Bayesian computation, **Biometrika**, 96(4), 983-990
18. Casarin and **Marin** (2009) Online data processing: Comparison of Bayesian regularized particle filters, **Electronic Journal of Statistics**, 3, 239-258
17. Cucala, **Marin**, Robert, and Titterington (2009) A Bayesian reassessment of nearest-neighbour classification, **Journal of the American Statistical Association, Theory and Methods**, March 1, 104(485), 263-273
16. Grelaud, Robert, **Marin**, Rodolphe and Taly (2009) ABC likelihood-free methods for model choice in Gibbs random fields, **Bayesian Analysis**, 4(2), 317-336
15. Ben Mansour, Jouini, **Marin**, Napp and Robert (2008) Are risk agents more optimistic? A Bayesian estimation approach, **Journal of Applied Econometrics**, 23, 843-860
14. Cappe, Douc, Guillin, **Marin** and Robert (2008) Adaptive Importance Sampling in General Mixture Classes, **Statistics and Computing**, 18, 447-459
13. Cornuet, Santos, Beaumont, Robert, **Marin**, Balding, Guillemaud and Estoup (2008) Inferring population history with DIY ABC: a user-friendly approach Approximate Bayesian Computation, **Bioinformatics**, 24(23), 2713-2719
12. **Marin** and Robert (2008) Approximating the marginal likelihood in mixture models, **Indian Bayesian Society News Letter**, V(1), 2-7
11. Robert and **Marin** (2008) On some difficulties with a posterior probability approximation technique, **Bayesian Analysis**, 3(2), 427-442
10. Consonni and **Marin** (2007) Mean field variational Bayesian inference for latent variable models, **Computational Statistics and Data Analysis**, 52(2), 790-798
9. Douc, Guillin, **Marin** and Robert (2007) Minimum variance importance sampling via Population Monte Carlo, **ESAIM: Probability and Statistics**, 11, 427-447
8. Douc, Guillin, **Marin** and Robert (2007) Convergence of adaptive mixtures of importance sampling schemes, **Annals of Statistics**, 35(1), 420-448

7. Druilhet and **Marin** (2007) Invariant HPD and MAP based on Jeffreys measure, **Bayesian Analysis**, 2(4), 681-692
6. Kendall, **Marin** and Robert (2007) Confidence bands for Brownian motion and applications to Monte Carlo simulations, **Statistics and Computing**, 17(1), 1-10
5. **Marin** (2007) Estimation of variance components for a linear Toeplitz model, **Communications in Statistics: Theory and Methods**, 36(12), 2273-2288
4. Celeux, **Marin** and Robert (2006) Iterated importance sampling in missing data problems, **Computational Statistics and Data Analysis**, 50(12), 3386-3404
3. Cappé, Guillin, **Marin** and Robert (2004) Population Monte Carlo, **Journal of Computational and Graphical Statistics**, 13(4), 907-929
2. **Marin** and Dhorne (2003) Optimal quadratic unbiased estimation for models with linear Toeplitz covariance structure, **Statistics**, 37(2), 85-99
1. **Marin** and Dhorne (2002) Linear Toeplitz covariance structure models with optimal estimators of variance components, **Linear Algebra and Its Applications**, 354(1-3), 195-212

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#### Publications in national peer-reviewed journals (5)

5. Estoup, Raynal, Verdu, **Marin** (2018) Model choice using Approximate Bayesian Computation and Random Forests: analyses based on model grouping to make inferences about the genetic history of Pygmy human populations, *Journal de la Société Française de Statistique*, 159(3), 167-190
4. Auffray, Barbillon and **Marin** (2011) Modèles réduits a partir d'expérience numériques, *Journal de Société Française de Statistique*, 152(1), 89-102
3. Grelaud, Robert and **Marin** (2009) ABC methods for model choice in Gibbs random fields, *Compte Rendus Académie des Sciences - Paris, Ser. I*, 347, 205-210
2. Celeux, **Marin** and Robert (2006) Sélection bayésienne de variables en regression linéaire, *Journal de la Société Française de Statistique*, 147(1), 59-79
1. Guillin, **Marin** and Robert (2005) Estimation bayésienne approximative par échantillonnage préférentiel, *Revue de Statistique Appliquée*, LIII(1), 79-95

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### Book chapters (8)

8. Celeux, Kamary, Malsiner-Walli, **Marin**, Robert (2019) Computational Solutions for Bayesian Inference in Mixture Models, **In Handbook of Mixture Analysis, chapter 5, Chapman and Hall/CRC**
7. Estoup, Verdu, **Marin**, Robert, Dehne-Garcia, Cornuet and Pudlo (2019) Application of approximate Bayesian computation to infer the genetic history of Pygmy hunter-gatherers populations from Western Central Africa, **In Handbook of Approximate Bayesian Computation, chapter 18, Chapman and Hall/CRC**
6. **Marin**, Pudlo, Estoup and Robert (2019) Likelihood-free model choice, **In Handbook of Approximate Bayesian Computation, chapter 6, Chapman and Hall/CRC**
5. Robert, **Marin** and Rousseau (2011) Bayesian Inference and Computation, **In Handbook of Statistical Systems Biology, chapter 3, John Wiley & Sons**
4. **Marin** and Robert (2010) Importance sampling methods for Bayesian discrimination between embedded models, *In Frontiers of Statistical Decision Making and Bayesian Analysis, pages 513-527, Springer-Verlag*
3. Robert and **Marin** (2010) On computational tools for Bayesian analysis, **In Rethinking Risk Measurement and Reporting, Volume I, Uncertainty, Bayesian Analysis and Expert Judgement, chapter 2, Risk Books**
2. Lee, **Marin**, Mengersen and Robert (2009) Bayesian inference on mixtures of distributions, **In Perspectives in Mathematical Sciences I, Probability and Statistics**, pages 165-202, World Scientific
1. **Marin**, Mengersen and Robert (2005) Bayesian modelling and inference on mixtures of distributions, **In Handbook of Statistics 25, Bayesian Thinking Modeling and Computation**, pages 459-507, Elsevier

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### Published proceedings of international conferences (2)

2. **Marin**, Pudlo and Sedki (2012) Optimal parallelization of a sequential approximate Bayesian computation algorithm, WSC 2012, Berlin
1. Baudry, Celeux and **Marin** (2008) Selecting models focussing on the modeller's purpose, COMPSTAT 2008: Proceedings in Computational Statistics (P. Brito, Ed.), Physica-Verlag, Heidelberg, 337-348

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## Editorial

1. Rousset and **Marin** (2018) Editorial for the Special Issue on Models and Inference in Population Genetics, *Journal de la Société Française de Statistique*, 159(3), 124-125
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## Discussions

6. **Marin**, Josse and Robert (2017) Discussion on a paper of A. Gelman and C. Hennig: Beyond subjective and objective in statistics, *Journal of the Royal Statistical Society Series A*, 180, 4
  5. **Marin** and Robert (2012) Discussion on a paper of P. Fearnhead and D. Prangle: Constructing summary statistics for approximate Bayesian computation: semi-automatic approximate Bayesian computation, *Journal of the Royal Statistical Society Series B*, 74, 3
  4. **Marin** and Robert (2011) Discussion on a paper of M. Girolami and B. Calderhead: Riemann manifold Langevin and Hamiltonian Monte Carlo methods, *Journal of the Royal Statistical Society Series B*, 73, 2
  3. Iacobucci, **Marin**, Robert and Mengersen (2011) Discussion on a paper of H. Lopes, C. Carvalho, M. Johannes and N. Polson: Particle Learning for Sequential Bayesian Computation, *Bayesian Statistics 9*, Oxford University Press
  2. **Marin** and Casarin and Robert (2009) Discussion on a paper of H. Rue, S. Martino and N. Chopin: Approximate Bayesian inference for latent Gaussian models by using integrated nested Laplace approximations, *Journal of the Royal Statistical Society Series B*, 71, 2
  1. **Marin** and Robert (2002) Discussion on a paper of S. L. Lauritzen and T. S. Richardson: Chain graph models and their causal interpretation, *Journal of the Royal Statistical Society Series B*, 64, 3
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## Popularization

3. Marin and Robert (2009) Statistique bayésienne: les bases, *Techniques de l'Ingénieur*, AF605
2. François and **Marin** (2007) Initiation à R, *La revue Modulad*, 37, 83-101

1. **Marin** and Rossi (2004) Découvrez les réseaux bayésiens, *GNU/Linux Magazine France*, 60, 56-65

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### Invited International Conferences

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30. Bayesian model choice as a classification problem, **XV Latin American Congress of Probability and Mathematical Statistics (CLAPEM 2019)**, Merida (December 2019)
29. Bayesian model choice as a classification problem, **Bayesian Biostatistics 2019**, Lyon (May 2019)
28. Some recent advances on Approximate Bayesian Computation techniques **NIPS 17 PAC-Bayes workshop**, Long Beach (December 2017)
27. Approximate Bayesian Computation using Random Forests, **Joint Statistical Meetings 2017**, Baltimore (July 2017)
26. Validating and expanding Approximate Bayesian Computation, **BIRS Workshop**, Banff (February 2017)
25. Bayesian inference for mixture models in large dimension, what to expect and to do, **Working Group on Model-Based Clustering**, Paris (July 2016)
24. Approximate Bayesian Computation using Random Forests, **31st International Workshop on Statistical Modelling**, Rennes (July 2016)
23. ABC random forests for Bayesian parameter inference, **ISBA 2016 World Meeting**, Sardaigne (June 2016)
22. ABC random forests for parameter inference, **ABCruise**, Helsinki (May 2016)
21. Hidden Gibbs random fields model selection using Block Likelihood Information Criterion **CRiSM Workshop on Estimating Constants**, Warwick (May 2016)
20. Approximate Bayesian Computation for inference on population history using molecular markers, **Eleventh International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics, CIBB 2014**, Cambridge (June 2014)
19. ABC methods for Bayesian model choice, **Workshop Monte Carlo Inference for Complex Statistical Models**, Isaac Newton Institute for Mathematical Science, Cambridge (April 2014)

18. Approximate Bayesian Computation inferences about population history using large molecular datasets, **MCM'Ski 2014**, Chamonix (January 2014)
17. Relevant statistics for Bayesian model choice, **ERCIM 2013**, Londres (December 2013)
16. Optimal parallelization of a sequential approximate Bayesian computation algorithm, **Winter Simulation Conference 2012**, Berlin (December 2012)
15. Approximate Bayesian computation methods for model choice application to latent Gibbs random fields, **ERCIM 2012**, Oviedo (December 2012)
14. Estimation of demo-genetic model probabilities with Approximate Bayesian Computation using linear discriminant analysis on summary statistics, **ISBA 2012 World Meeting**, Kyoto (June 2012)
13. Bayesian inference on a mixture model with spatial dependence, **Workshop on Advances in MCMC**, ICMS, Edinburgh (April 2012)
12. ABC methods for Bayesian model choice, **III COBAL & XXXVIII JNE**, Pucón (October 2011)
11. Recent advances in ABC (Approximate Bayesian Computation), **Workshop on Recent advances in Bayesian Computation**, Singapour (September 2010)
10. Bayesian discrimination between embedded models, **COMPSTAT 2010 Tutorial**, Paris (August 2010)
9. Recent Advances in ABC (Approximate Bayesian Computation) methodology, **SIS 2010 Meeting**, Padoue (June 2010)
8. Bayesian discrimination between embedded models, **Workshop on Challenging problems in Statistical Learning**, Paris (January 2010)
7. ABC methods for model choice in Gibbs random fields, **ABC in Paris**, Paris (June 2009)
6. Adaptive Importance Sampling in General Mixture Classes, **Adap'Ski Meeting**, Bormio (January 2008)
5. A Bayesian reassessment of nearest-neighbour classification, **Spring Bayes 2007**, Coolangata (September 2007)
4. Adaptive multiple importance sampling, **Workshop on Bioinformatics, Genetics and Stochastic Computation: Bridging the Gap**, Banff (July 2007)
3. Variable selection in Gaussian linear regression, **The sixth International Workshop on Objective Bayesian Analysis**, Université La Sapienza, Rome (June 2007)

2. Population Monte Carlo, **ISBA 2004 World Meeting**, Vina del Mar (May 2004)
1. Convergence of adaptative sampling schemes, **Adap'Ski Meeting**, Bormio (January 2004)