

French Nationality
Born April 22, 1974
Married, 2 children

University of Montpellier
IMAG, Case Courrier 51
Place Eugène Bataillon
34095 Montpellier cedex 5

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Professor of Statistics and Numerical Probability
Dean of the Faculty of Science of Montpellier

Career

- 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
- 2001–2002* University Paris Dauphine (Paris, France)
Temporary Teaching and Research Fellow
CEREMADE
- 2001–2002* University Bretagne-Sud (Vannes, France)
Temporary Teaching and Research Fellow
Applied Statistics Laboratory Bretagne-Sud

Education

- 2007* **French post-doctoral degree allowing its holder to supervise PhD students**
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* **Master's Degree in Applied Mathematics**
speciality Statistics and Probability
University Paul Sabatier
- 1997* **Magistère d'Économiste-Statisticien**
TSE - Toulouse School of Economics

Key Responsibilities

- since 2022* **Dean of the Faculty of Sciences of Montpellier**
about 9,000 students
- 2018–2022* **Vice dean of the Faculty of Sciences of Montpellier**
in charge of the scientific policy
- 2018–2021* **Head of the French Statistical Society**
Scientific Society in the field of Mathematics
about 1,000 individual members
- 2015–2021* **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**

Teaching activities

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 2021* Course/Practical **R programming**
Master's Degrees in Mathematics and Bioinformatics
Statistics and Data Science and Bioinformatics and IDIL tracks
- since 2019* Course **Bayesian Statistics**
Master's Degree in Mathematics
Statistics and Data Science and IDIL tracks
- since 2015* Course/Practical **Generalized Linear Models / Machine Learning**
Master's Degree in Mathematics
Statistics and Data Science and IDIL tracks
- 2011–2015* Course/Practical **Computational Statistics**
Master's Degree in Mathematics Statistics and Application
Biostatistics and MASS tracks
- 2008–2021* Course/Practical **Mathematical risk analysis, scoring**
Master's Degree in Mathematics
Mathematics of Information and Decision track
- 2010–2012* Course/Practical **Parametric and non-parametric statistics**
Master's Degree in Mathematics Statistics and Applications
Biostatistics and MASS tracks
- 2008–2015* Course **Monte Carlo Methods and Stochastic Algorithms**
Master's Degree in Mathematics Statistics and Applications
Biostatistics track
- 2008–2014* Course/Practical **Mathematical Statistics**
Undergraduate's Degree in Mathematics

Teaching responsibilities

- 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

Research activities

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

Networks

- since 2024* Co-Head of the AGROSTAT project of the **PEPR Maths-VivES**
Statistics for the evolution and dynamics of populations
and species of agronomic interest
- 2018–2023* 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
- 2018–2023* Head of the I-Site MUSE **Data and Life Sciences Key Initiative**
funding of 620,000 euros for four years
- 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
Study of Inferential Methods and Software for Evolution
- 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

- 2018–2022 **Associate Editor of Bayesian Analysis**
- 2009–2021 **Associate Editor of the Journal the French Statistical Society**
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Supervision and Co-supervision of PhD theses

- since 2022 **Guillaume Le Mailloux**, *Statistical methods for complex models and large datasets: methodological developments and application in evolutionary population genomics*
defence planned for autumn 2025
- 2018–2021 **Raphaël Romero**, *Prediction of transcription factor binding sites*
Thesis defended on November 2021, University of Montpellier
- 2016–2019 **Louis Raynal**, *Statistical inference for intractable likelihood models*
Thesis defended on September 2019, University of Montpellier
Statistician, CHD Vendée
- 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
- 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
- 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

Scientific and Organizing Committees

- 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

Softwares

4. **R library mafR** (version 1.1.6, September 2024) Interface for Masked Autoregressive Flows
 3. **DIYABC Random Forest** (version 1.0, January 2021) Approximate Bayesian Computation via Random Forests, for model choice and parameter inference in the context of population genetics analysis
 2. **R library abcrfw** (version 1.9, August 2022) 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
-

Publications list

French post-doctoral degree allowing its holder to supervise PhD students

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

PhD Thesis

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

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
-

Publications in peer-reviewed journals (51)

51. Romero, Menichelli, Vroland, **Marin**, Lèbre, Lecellier and Brehelin (2024) Systematic analysis of the sequence features involved in the binding preferences of transcription factors, **Genome Biology**, 25, 187
50. Cleynen, Raynal and **Marin** (2023) Local Tree Methods for Classification: A Review and Some Dead Ends, **Computo**
49. Pavinato, De Mita, **Marin** and de Navascués (2022) Joint inference of adaptive and demographic history from temporal population genomic data, **Peer Community Journal**, 2(e78)
48. Collin, Raynal, Durif, Gautier, Vitalis, Lombaert, **Marin** and Estoup (2021) Extending approximate Bayesian computation with supervised machine learning to infer demographic history from genetic polymorphisms using DIYABC Random Forest, **Molecular Ecology Resources**, 21(8), 2598–2613
47. 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, **Molecular Ecology**, 29(23), 4542–4558
46. **Marin**, Pudlo and Sedki (2019) Consistency of Adaptive Importance Sampling and Recycling Schemes, **Bernoulli**, 25(3), 1977–1998
45. Raynal, **Marin**, Pudlo, Ribatet, Robert and Estoup (2019) ABC random forests for Bayesian parameter inference, **Bioinformatics**, 35(10), 1720–1728
44. Bessière, Taha, Petitprez, Vandell, **Marin**, Bréhélin, Lèbre and Lecellier (2018) Probing instructions for expression regulation in gene nucleotide compositions, **PLOS Computational Biology**, 14(1), e1005921
43. 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
42. 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
41. Fraimout, Debat, Fellous, Hufbauer, Foucaud, Pudlo, **Marin**, Price, Cattel, 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

40. Stoehr, **Marin** and Pudlo (2016) Hidden Gibbs random fields model selection using Block Likelihood Information Criterion, **Stat**, 5(1), 158–172
39. Pudlo, **Marin**, Cornuet, Estoup, Gautier and Robert (2016) Reliable ABC model choice via random forests, **Bioinformatics**, 32(6), 859–866
38. Auffray, Barbillon and **Marin** (2014) Bounding rare event probabilities in computer experiments, **Computational Statistics and Data Analysis**, 80, 153–166
37. 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
36. **Marin**, Pillai, Robert and Rousseau (2014) Relevant statistics for Bayesian model choice, **Journal of the Royal Statistical Society, Series B**, 76(5), 833–859
35. Cucala and **Marin** (2013) Bayesian Inference on a Mixture Model With Spatial Dependence, **Journal of Computational and Graphical Statistics**, 22(3), 584–597
34. Auffray, Barbillon and **Marin** (2012) Maximin design on non hypercube domain and kernel interpolation, **Statistics and Computing**, 22(3), 703–712
33. 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
32. 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
31. Cornuet, **Marin**, Mira and Robert (2012) Adaptive Multiple Importance Sampling, **Scandinavian Journal of Statistics**, 39(4), 798–812
30. Donnet and **Marin** (2012) An empirical Bayes procedure for the selection of Gaussian graphical models, **Statistics and Computing**, 22(5), 1113–1123
29. 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
28. **Marin**, Pudlo, Robert and Ryder (2012) Approximate Bayesian Computation methods, **Statistics and Computing**, 22(6), 1167–1180
27. 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
26. Auffray, Barbillon and **Marin** (2011) Modèles réduits a partir d'expérience numériques, **Journal de Société Française de Statistique**, 152(1), 89–102
 25. Iacobucci, **Marin** and Robert (2010) On variance stabilisation by double Rao-Blackwellisation, **Computational Statistics and Data Analysis**, 54, 698–710
 24. Jouini, **Marin** and Napp (2010) Discounting and Divergence of Opinion, **Journal of Economic Theory**, 145(2), 830–859
 23. **Marin** and Robert (2010) On resolving the Savage-Dickey paradox, **Electronic Journal of Statistics**, 4, 643–654
 22. Beaumont, Cornuet, **Marin** and Robert (2009) Adaptive approximate Bayesian computation, **Biometrika**, 96(4), 983–990
 21. Casarin and **Marin** (2009) Online data processing: Comparison of Bayesian regularized particle filters, **Electronic Journal of Statistics**, 3, 239–258
 20. 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
 19. Grelaud, Robert, **Marin**, Rodolphe and Taly (2009) ABC likelihood-free methods for model choice in Gibbs random fields, **Bayesian Analysis**, 4(2), 317–336
 18. 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
 17. Ben Mansour, Jouini, **Marin**, Napp and Robert (2008) Are risk agents more optimistic? A Bayesian estimation approach, **Journal of Applied Econometrics**, 23, 843–860
 16. Cappe, Douc, Gullin, **Marin** and Robert (2008) Adaptive Importance Sampling in General Mixture Classes, **Statistics and Computing**, 18, 447–459
 15. 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
 14. **Marin** and Robert (2008) Approximating the marginal likelihood in mixture models, **Indian Bayesian Society News Letter**, V(1), 2–7
 13. Robert and **Marin** (2008) On some difficulties with a posterior probability approximation technique, **Bayesian Analysis**, 3(2), 427–442

12. Consonni and **Marin** (2007) Mean field variational Bayesian inference for latent variable models, **Computational Statistics and Data Analysis**, 52(2), 790–798
11. Douc, Guillin, **Marin** and Robert (2007) Minimum variance importance sampling via Population Monte Carlo, **ESAIM: Probability and Statistics**, 11, 427–447
10. Douc, Guillin, **Marin** and Robert (2007) Convergence of adaptive mixtures of importance sampling schemes, **Annals of Statistics**, 35(1), 420–448
9. Druilhet and **Marin** (2007) Invariant HPD and MAP based on Jeffreys measure, **Bayesian Analysis**, 2(4), 681–692
8. Kendall, **Marin** and Robert (2007) Confidence bands for Brownian motion and applications to Monte Carlo simulations, **Statistics and Computing**, 17(1), 1–10
7. **Marin** (2007) Estimation of variance components for a linear Toeplitz model, **Communications in Statistics: Theory and Methods**, 36(12), 2273–2288
6. Celeux, **Marin** and Robert (2006) Iterated importance sampling in missing data problems, **Computational Statistics and Data Analysis**, 50(12), 3386–3404
5. Celeux, **Marin** and Robert (2006) Sélection bayésienne de variables en régression linéaire, **Journal de la Société Française de Statistique**, 147(1), 59–79
4. Guillin, **Marin** and Robert (2005) Estimation bayésienne approximative par échantillonnage préférentiel, **Revue de Statistique Appliquée**, LIII(1), 79–95
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

Book chapters (8)

8. Celeux, Kamary, Malsiner-Walli, **Marin** and 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

Published proceedings of international conferences (2)

3. **Marin**, Pudlo and Sedki (2012) Optimal parallelization of a sequential approximate Bayesian computation algorithm, WSC 2012, Berlin
2. Auffray, Barbillon and **Marin** (2010) Maximin Design on Non-Hypercube Domain and Kernel Interpolation, Sixth International Conference on Sensitivity Analysis of Model Output, *Procedia–Social and Behavioral Sciences* Volume 2, Issue 6, 7601–7602
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

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
-

Popularization

3. **Marin** and Robert (2009) Statistique bayésienne: les bases, *Techniques de l'Ingénieur*, AF605
 2. François and **Marin** (2007) Initiation a R, *La revue Modulad*, 37, 83–101
 1. **Marin** and Rossi (2004) Découvrez les réseaux bayésiens, *GNU/Linux Magazine France*, 60, 56–65
-

Invited International Conferences

34. Goodness of fit for Bayesian generative models, **Mathematical and Computational Evolutionary Biology (MCEB) 2024**, Hameau de l'étoile (June 2024)
33. Goodness of fit for Bayesian generative models, **IMS International Conference on Statistics and Data Science (ICSDS) 2023**, Lisbon (December 2023)
32. Goodness of fit for Bayesian generative models, **Autumn school in Bayesian Statistics 2023**, CIRM, Marseille (October 2023)

31. Uncertainty quantification for marginal computations, **Chimiométrie 2022**, Brest (June 2022)
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**, University 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)