

Curriculum Vitæ

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URL: <http://www.lpma-paris.fr/smile>

Research Interests

1. Stochastic Processes (branching processes, Lévy processes, coalescent theory, excursion theory, measure-valued processes)
2. Evolution, Ecology, Genetics (population genomics, adaptive dynamics, speciation, molecular evolution, phylogenetics, macro-evolution)

Education and professional experience

École Polytechnique, aug 1994–jun 1997.

PhD Thesis, *Trees, excursions and completely asymmetric Lévy processes* (dir. Jean Bertoin), Laboratoire de Probabilités, UPMC, oct 1998–jan 2001.

‘Maître de Conférences’ at UPMC University Paris 6, Laboratoire d’Écologie et Évolution, ENS and UPMC, sep 2001–aug 2008

Habilitation à diriger des recherches, *Branching processes, population genetics and random genealogies*, UPMC, dec 2007.

‘Professeur chargé de cours’ at École Polytechnique, sep 2007–jul 2009.

‘Professeur’ at UPMC University Paris 6, Laboratoire de Probabilités et Modèles Aléatoires, CNRS and UPMC, sep 2008– (1st class since sep 2014)

‘Professeur chargé de cours’ at ENS, biology department, sep 2010–

Head of Stochastics & Biology Group of LPMA, nov 2011–

PI of SMILE group (Stochastic models for the inference of life evolution), LPMA & CIRB –
Collège de France (Center for interdisciplinary research in biology), jan 2012–

Articles published or in press

LAMBERT, A. (2000) Completely asymmetric Lévy processes confined in a finite interval. *Ann. Inst. H. Poincaré* **36**(2) 251–274.

LAMBERT, A. (2001) The joint law of ages and residual lifetimes for two schemes of regenerative sets. *Elec. J. Probab.* **6** 1–23.

LAMBERT, A. (2001) *Arbres, excursions et processus de Lévy complètement asymétriques*. PhD dissertation, Université P. et M. Curie, Paris.

LAMBERT, A. (2002) The genealogy of continuous-state branching processes with immigration. *Probab. Theory Relat. Fields* **122** 42–70.

LAMBERT, A. (2003) Coalescence times for the branching process. *Adv. Appl. Probab.* **35** 1071–1089.

LAMBERT, A. (2005) The branching process with logistic growth. *Ann. Appl. Probab.* **15** 1506–1535.

DEPAULIS, F., LAMBERT, A., RAQUIN, A.L., GALIC, N., BRABANT, P., GOLDRINGER, I. (2005) Coalescent related methods to assess mutation rates from unknown partial genealogy: an application on microsatellites of experimental wheat populations. *Ann. Human Genetics* **69** 767–767.

LAMBERT, A. (2005) Fixation under weak selection in a population with triple demographic trait (r, σ, c) . *Ann. Human Genetics* **69** 769–769.

LAMBERT, A. (2006) Probability of fixation under weak selection: a branching process unifying approach. *Theor. Popul. Biol.* **69** 419–441.

CHAMPAGNAT, N., LAMBERT, A. (2007) Evolution of discrete populations and the canonical diffusion of adaptive dynamics. *Ann. Appl. Probab.* **17** 102–155.

LAMBERT, A. (2007) Quasi-stationary distributions and the continuous-state branching process conditioned to be never extinct. *Elec. J. Probab.* **12** 420–446.

LAMBERT, A. (2007) *Processus de branchement, génétique des populations et généalogies aléatoires*. Habilitation à diriger des recherches, Université P. et M. Curie, Paris.

CHAMPAGNAT, N., LAMBERT, A. (2008) Adaptive dynamics in logistic branching populations. *Banach Center Publ.* **80** 235–244.

- RAQUIN, A.L., F. DEPAULIS, A. LAMBERT, N. GALIC, P. BRABANT AND I. GOLDRINGER (2008) Experimental estimation of mutation rates in a wheat population with a gene genealogy approach. *Genetics* **179** 2195–2211.
- RICCIARDI, A., GONZALEZ, A., LAMBERT, A. (2008) When does ecosystem engineering cause invasion and species replacement? *Oikos* **117** 1247–1257.
- CHAPRON, G., MIQUELLE, D.G., LAMBERT, A., GOODRICH, J. M., LEGENDRE, S., CLOBERT, J. (2008) The impact on tigers of poaching versus prey depletion. *J. Appl. Ecology* **45** 1667–1674.
- LAMBERT, A. (2008) Population Dynamics and Random Genealogies. *Stoch. Models* **24** 45–163.
- AGUILÉE, R., CLAESSEN, D., LAMBERT, A. (2009) Allele fixation in a dynamic metapopulation: Founder effects vs refuge effects. *Theoret. Popul. Biol.* **76** 105–117.
- CATTIAUX, P., COLLET, P., LAMBERT, A., MARTINEZ, S., MÉLÉARD, S., SAN MARTIN, J. (2009) Quasi-stationary distributions and diffusion models in population dynamics. *Ann. Probab.* **37** 1926–1969.
- LAMBERT, A. (2009) The allelic partition for coalescent point processes. *Markov Proc. Relat. Fields* **15** 359–386.
- CABALLERO, M.E., LAMBERT, A., URIBE BRAVO, G. (2009) Proof(s) of the Lamperti representation of continuous-state branching processes. *Probab. Surveys* **6** 62–89.
- LAMBERT, A. (2010) The contour of splitting trees is a Lévy process. *Ann. Probab.* **38** 348–395.
- LAMBERT, A. (2010) Population genetics, ecology and the size of populations. *J. Math. Biol.* **60** 469–472.
- AGUILÉE, R., DE BECDELIVRE, B., LAMBERT, A., CLAESSEN, D. (2011) Under which conditions is character displacement a likely outcome of secondary contact? *J. Biol. Dyn.* **5** 135–146.
- LAMBERT, A. (2011) Species abundance distributions in neutral models with immigration or mutation and general lifetimes. *J. Math. Biol.* **63** 57–72.
- TULLY, T., LAMBERT, A. (2011) The evolution of post-reproductive lifespan as an insurance against developmental indeterminacy. *Evolution* **65** 3013–3020.
- AGUILÉE, R., LAMBERT, A., CLAESSEN, D. (2011) Ecological speciation in dynamic landscapes. *J. Evol. Biol.* **24** 2663–2677.
- CHAMPAGNAT, N., LAMBERT, A. (2012) Splitting trees with neutral Poissonian mutations I: Small families. *Stoch. Proc. Appl.* **122**(3) 1003–1033.
- PULLANDRE, N., LAMBERT, A., BROUILLET, S., ACHAZ, G. (2012) ABGD, Automatic Barcode Gap Discovery for primary species delimitation. *Mol. Ecol.* **21**(8) 1864–1877.

- CHAMPAGNAT, N., LAMBERT, A., RICHARD, M. (2012) Birth and death processes with neutral mutations. *Int. J. Stoch. Anal.* Article ID 569081.
- LAMBERT, A., POPOVIC, L. (2013) The coalescent point process of branching trees. *Ann. Appl. Prob.* **23**(1) 99–144.
- CHAPRON, G., WIELGUS, R., LAMBERT, A. (2013) Overestimates of maternity and population growth rates in multi-annual breeders. *Eur. J. Wildl. Res.* **59** 237–243.
- LAMBERT, A., TRAPMAN, P. (2013) Splitting trees stopped when the first clock rings and Vervaat’s transformation. *J. Appl. Prob.* **50**(1) 208–227.
- CHAMPAGNAT, N., LAMBERT, A. (2013) Splitting trees with neutral Poissonian mutations II: Largest and oldest families. *Stoch. Proc. Appl.* **123**(4) 1368–1414.
- AGUILÉE, R., CLAESSEN, D., LAMBERT, A. (2013) Adaptive radiation driven by the interplay of eco-evolutionary and landscape dynamics. *Evolution* **67**(5) 1291–1306.
- BANSAYE, V., LAMBERT, A. (2013) Past, growth and persistence of source-sink metapopulations. *Theoret. Popul. Biol.* **88** 31–46.
- LAMBERT, A., STADLER, T. (2013) Birth-death models and coalescent point processes: The shape and probability of reconstructed phylogenies. *Theoret. Popul. Biol.* **90** 113–128.
- LAMBERT, A., STEEL, M. (2013) Predicting the loss of phylogenetic diversity under non-stationary diversification models. *J. Theoret. Biol.* **337** 111–124.
- LAMBERT, A., SIMATOS, F., ZWART, B. (2013) Scaling limits via excursion theory: Interplay between Crump-Mode-Jagers branching processes and Processor-Sharing queues. *Ann. Appl. Prob.* **23**(6) 2357–2381.
- LAMBERT, A., SIMATOS, F. (2014) The weak convergence of regenerative processes using some excursion path decompositions. *Ann. Inst. H. Poincaré.* **50**(2) 492–511.
- LAMBERT, A., ALEXANDER, H.K., STADLER, T. (2014) Phylogenetic analysis accounting for age-dependent death and sampling with applications to epidemics *J. Theoret. Biol.* **352** 60–70.
- ETIENNE, R.S., MORLON, H., LAMBERT, A. (2014) Estimating the duration of speciation from phylogenies *Evolution* **68**(8) 2430–2440.
- LAMBERT, A. (2014) Vers une approche formelle des origines évolutives de la complexité. In: Complexité-Simplexité, Berthoz, A. & Petit, J.L. (eds)
- LAMBERT, A., SIMATOS, F. (2015) Asymptotic behavior of local times of compound Poisson processes with drift in the infinite variance case. *J. Theoret. Prob.* **28**(1) 41–91
- LAMBERT, A., MORLON, H., ETIENNE, R.S. (2015) The reconstructed tree in the lineage-based model of protracted speciation. *J. Math. Biol.* **70**(1) 367–397
- LAMBERT, A., MA, C. (2015) The coalescent in peripatric metapopulations. *J. Appl. Prob.* **52**(2) 538–557

- MARTIN, G., LAMBERT, A. (2015) A simple, semi-deterministic approximation to the distribution of selective sweeps in large populations. *Theoret. Popul. Biol.* **101** 40–46
- MANCEAU, M., LAMBERT, A., MORLON, H. (2015) Phylogenies support out of equilibrium models of biodiversity. *Ecology Letters* **18**(4) 347–356
- RÉGNIER, C.*, ACHAZ, G.*, LAMBERT, A., COWIE, R.H., BOUCHET, P., FONTAINE, B. (2015) Mass extinction in poorly known taxa. *Proc. Nat. Acad. Sci. USA* **112**(25) 7761–7766.
- GASCUEL, F., FERRIÈRE, R., AGUILÉE, R., LAMBERT, A. (2015) How ecology and landscape dynamics shape phylogenetic trees. *Syst. Biol.* **64**(4) 590–607
- DÁVILA, M., LAMBERT, A. (2015) Time-reversal dualities for some random forests. *ALEA, Lat. Am. J. Probab. Math. Stat.* **12**(1) 399–426
- ALEXANDER, H.K., LAMBERT, A., STADLER, T. (2015) Quantifying age-dependent extinction from species phylogenies. *Syst. Biol.* **65**(1) 35–50
- DELAPORTE, C., ACHAZ, G., LAMBERT, A. (2016) Mutational pattern of a sample from a critical branching population. *J. Math. Biol.* In press.
- BEHDENNA, A., POTHIER, J., ABBY, S., LAMBERT, A., ACHAZ, G. (2016) Testing for independence between evolutionary processes. *Syst. Biol.* In press.
- LAPIERRE, M., BLIN, C., LAMBERT, A., ACHAZ, G., ROCHA, E.P.C. (2016) The impact of selection, gene conversion, and biased sampling on the assessment of microbial demography. *Mol. Biol. Evol.* In press.

PhD students

- 2005–2008 Vincent Bansaye. *Applications of stochastic processes to ecology and informatics*. Co–advisor: Jean Bertoin.
- 2007–2010 Robin Aguilée. *Fusion and fission of speciating populations*. Co–advisor: David Claessen.
- 2008–2011 Mathieu Richard. *Trees, non-Markovian branching processes and Lévy processes*.
- 2008–2011 Anton Camacho. *Stochastic modelling in epidemiology of emerging diseases*. Co–advisor: Bernard Cazelles.
- 2010–2013 Cyril Labbé. *Genealogies of flows and flows of partitions*. Co–advisor: Julien Berestycki.
- 2010–2014 Cécile Delaporte. *Inhomogeneous random trees and applications to population genetics*.
- 2012–16 Abdelkader Behdenna. *Inference of interactions between evolutionary processes*. Co–advisor: Guillaume Achaz.

- 2013–16 Fanny Gascuel. *Emergence of supra-specific diversity patterns in evolutionary radiations*. Co–advisor: Régis Ferrière.
- 2012– Miraine Dávila. *Multiscale modelling and reconstruction of epidemiological dynamics*. Co–advisor: Bernard Cazelles.
- 2014– Marguerite Lapierre. *Confronting null models of population genetics*. Co–advisor: Guillaume Achaz.
- 2015– Verónica Miró Pina. *Probabilistic models of speciation*. Co–advisor: Emmanuel Schertzer.
- 2015– Marc Manceau. *Phylogenetic modeling of spatial patterns of biodiversity*. Co–advisor: Hélène Morlon.

PhD & Habilitation committees

- dec 2006 Viêt-Chí Tr  n. *Stochastic particle models for problems of adaptive evolution and for the approximation of statistical solutions*. Th  se de l’U. Paris 10. Advisor: Sylvie M  léard.
- nov 2009 Arno Siri–J  gousse. *Asymptotic behaviour of the length of a coalescent tree. Applications to population genetics*. Th  se de l’U. Paris Descartes. Advisors: Jean–Fran  ois Delmas and Jean–St  phane Dhersin.
- oct 2010 Marco Andrello (pdt of committee). *Demo-genetic models for plant conservation*. Th  se de l’U. Joseph Fourier, Grenoble. Advisors: Oscar Gaggiotti and Ir  ne Till–Bottraud.
- dec 2010 Sandrine Adiba (pdt of committee). *Fluctuating selection and effects of genetic drift on polymorphism. Theoretical and experimental evolution*. Th  se de l’  cole Normale Sup  rieure. Advisors: Frantz Depaulis and Minus van Baalen.
- dec 2010 Bruno Jaffuel. *Branching random walks with absorption*. Th  se de l’UPMC. Advisor: Zhan Shi.
- dec 2011 Herv   Le Nagard (pdt of committee). *Emergence and impact of phenotypic complexity*. Th  se de l’UPMC. Advisor: Olivier Tenaillon.
- jan 2012 David Claessen. *Modelling the struggle for existence in structured populations*. Habilitation    Diriger des Recherches de l’UPMC.
- sep 2012 Cl  ment Foucart. *Fleming–Viot processes with immigration*. Th  se de l’UPMC. Advisor: Jean Bertoin.
- sep 2012 Mamadou Ba (reviewer) *Exploration processes, binary trees and generalized Ray–Knight theorems*. Th  se de l’U. Aix–Marseille. Advisor:   tienne Pardoux.
- dec 2012 Micha  l Blum (reviewer). *Bayesian statistics and applications in population genetics*. Habilitation    Diriger des Recherches de l’U. Joseph Fourier.

- dec 2012 Patrick Hoscheit. *Continuum tree-valued stochastic processes*. Thèse de l'U. Paris-Est. Advisors: Romain Abraham and Jean-François Delmas.
- feb 2013 Romain Bourget (reviewer). *Stochastic modeling of pathogen adaptation to hosts carrying genetic resistances*. Thèse de l'U. Angers. Advisor: Loïc Chaumont.
- oct 2013 Krzysztof Bartoszek. *Stochastic models in phylogenetic comparative methods: analytical properties and parameter estimation*. PhD of U. of Gothenburg (Sweden). Advisor: Serik Sagitov.
- nov 2013 Alexandre Génadot. *Multiscale study of probabilistic models for excitable systems with a spatial component*. Thèse de l'UPMC. Advisor: Michèle Thiullen.
- nov 2013 Peggy Cénac. *Recursivity at the intersection of DNA sequence modeling, random trees, stochastic algorithms and martingales*. Habilitation à Diriger des Recherches de l'U. de Bourgogne (Dijon).
- nov 2013 Vincent Bansaye. *Branching processes, Markov chains and random environment for population dynamics*. Habilitation à Diriger des Recherches de l'École Polytechnique.
- dec 2013 Stephan Fischer (reviewer). *Modeling the evolution of genome size and of gene content by local mutations and large chromosomal rearrangements*. Thèse de l'U. Lyon 1. Advisors: Guillaume Beslon, Carole Knibbe and Samuel Bernard.
- dec 2013 Camille Coron (pdt of committee). *Probabilistic modeling and eco-evolution of diploid populations*. Thèse de l'École Polytechnique. Advisor: Sylvie Méléard.
- dec 2013 Nicolas Lartillot. *Probabilistic models for molecular and macro-evolution*. Habilitation à Diriger des Recherches de l'U. Lyon 1.
- may 2014 Vincent Le Bourlot (pdt of committee). *Competition by interference, temperature and population dynamics*. Thèse de l'UPMC. Advisors: David Claessen and Thomas Tully.
- nov 2014 Vi Lê (pdt of committee). *Branching processes with interactions*. Thèse de l'U. Aix-Marseille. Advisor: Étienne Pardoux.
- jan 2015 Xan Duhalde (pdt of committee). *On some fractal and path wise properties of continuons branching processes*. Thèse de l'UPMC. Advisor: Thomas Duquesne.
- oct 2015 Florian Massip (pdt of committee). *The statistical fate of eukaryotic DNA: Modelling match statistics in different evolutionary scenarios*. Thèse de l'U. Paris-Saclay. Advisors: Sophie Schbath and Peter Arndt.
- nov 2015 Sébastien Lion (pdt of committee). *Evolution of structured host-parasite interactions*. Habilitation à Diriger des Recherches de l'U. Montpellier.
- feb 2016 Airam Aseret Blancas Benítez (reviewer). *Two contributions to the theory of stochastic population dynamics*. Tesis de la Universidad de Guanajuato. Advisor: Victor Caballero.

may 2016 Olivier Rivoire (reviewer). *Evolution, Physics and Information*. Habilitation à Diriger des Recherches de l'U. de Grenoble-Alpes.

jul 2016 Étienne Adam. *Persistence and rate of extinction of multi-type stochastic population models in discrete time*. Thèse de l'U. Paris-Saclay. Advisors: Vincent Bansaye and Jean-René Chazottes.

Grants and awards

2004–2007 Holder of PEDR (prime d'encadrement doctoral et de recherche, Ministry of Research, 4 years)

2004–2006 ACI (Actions Concertées Incitatives, Ministry of Research) Nouvelles Interfaces des Mathématiques (NIM): project *Populations Structurées* (dir. Sylvie Méléard). Workshop at Inst. Henri Poincaré jul 7–9, 2005.

2005–2007 ACI Informatique, Mathématiques et Physique pour la Biologie (IMPBio): project *Modèles Mutationnels* (dir. Frantz Depaulis).

2006 Délégation CNRS (visiting professor at LPMA and Instituto de Matemáticas, UNAM, Mexico City)

2007–2009 ANR (Agence Nationale pour la Recherche): project *Modèles Aléatoires de l'Évolution du Vivant* (MAEV, dir. Étienne Pardoux). *Leader of the Paris team*. International conference '*Probabilistic Models in Evolutionary Biology*', Centre International de Recherches Mathématiques, Luminy, may 25–29, 2009.

2009–2013 Holder of PIR (prime d'investissement recherche, UPMC, 4 years)

2009–2011 ANR project *Arbres Aléatoires Continus et Applications* (A3, dir. Jean-François Delmas).

2010–2013 ANR project *Modèles Aléatoires en Écologie, Génétique et Évolution* (MANEGE, dir. Sylvie Méléard). *Leader of the Paris team*.

2010–2013 ANR: project *6th Mass Extinction* (LOSERS, dir. Philippe Bouchet).

2011–2012 CNRS: interdisciplinary call PEPII (dir. Guillaume Martin).

2012 Délégation CNRS (6 months, CIRB UMR 7241, Collège de France).

2013 CRCT (6 months).

2014–2017 Holder of PIR (prime d'investissement recherche, UPMC, 4 years)

2014 'Professeur 1ère classe'

Scientific boards

Scientific board, international conference ‘*Probabilistic Models in Evolutionary Biology*’, Centre International de Recherches Mathématiques, Luminy, may 25–29, 2009.

Evaluation committee of *Biostatistics and Spatial Processes Lab* (UR BioSP, INRA), may 2011.

Scientific board, international conference ‘*Probabilistic Models in Evolutionary Biology II*’, Centre International de Recherches Mathématiques, Luminy, jun 14–18, 2012.

Scientific advisory board, international conference on *Stochastic Processes in Systems Biology, Genetics and Evolution*, Rice University, TX, USA, aug 22–25, 2012.

Scientific board, international conference ‘*Probabilistic Models in Evolutionary Biology III*’, Centre International de Recherches Mathématiques, Luminy, jun 15–19, 2015.

Scientific board, international summer school ‘*Stochastic Analysis and its Applications Mongolia 2015*’, Ulaanbaatar, jul 27– aug 7, 2015.

Scientific board, international conference ‘*Mathematical Approaches to Evolutionary Trees and Networks*’, Banff IRS, feb 12–17, 2017

Refereeing service

2014– Associate Editor for *Theoretical Population Biology*

2003– Anonymous reviewer for *Probability Theory and Related Fields, Annals of Probability, Annals of Applied Probability, Electronic Journal of Probability, Stochastic Processes and their Applications, Journal of/Advances in Applied Probability, Journal of Theoretical Probability, Bernoulli, Statistics & Probability Letters, Journal of Statistical Physics, Séminaire de Probabilités, Lecture Notes in Mathematics, Statistics & Probability Letters, Mathematical Biosciences, J. Royal Society Interface, Philosophical Transactions of the Royal Society B, Systematic Biology, PLoS Biology, Evolution, Theoretical Population Biology, Journal of Theoretical Biology, Genetica, Écoscience, Physical Review E...*

2005– Reviewer for *Mathematical Reviews–MathSciNet* (30 reports)

2007– Reviewer for research funds: Marsden Fund (New Zealand), National Security Agency (USA), DFG (Germany), FWF (Austria), John Templeton Foundation (USA).

Organization of conferences

jan 2000–jun 2001: *founder and animator* of a weekly *workshop* for the *postgraduate students* of the Laboratoire de Probabilités et Modèles Aléatoires, UPMC.

oct 2003–oct 2006: *animator* of the weekly *team meetings* of the unit of mathematical evolutionary biology, Laboratoire d’Écologie et Évolution, ENS.

sep 2007: organization of session *Recent progress in the theory of adaptive dynamics*, Conference on Mathematical Models of Evolution and Ecology, U. Sussex.

- aug 2008: organization of session *Gènes, Individus, Populations*, Journées MAS (Modélisation Aléatoire et Statistique), U. Rennes 1.
- oct 2008– : co-organization (with J.-S. Dhersin) of weekly workshop *Génétique des populations stochastique*.
- may 2009: co-organization (with É. Pardoux) of *international conference ‘Probabilistic Models in Evolutionary Biology’*, Centre International de Recherches Mathématiques, Luminy, may 25–29, 2009.
- jul 2011: organization of ‘frontier session’ *Stochastic models in phylogenetics*, 16th Applied Probability Society Conference, KTH, Stockholm, jul 6–8, 2011.
- oct 2012: organization of *international conference ‘Phylogenetic approaches to diversification’*, Collège de France, oct 22–23, 2012 (> 120 participants)
- 2013–15: organization of annual Journée ‘Biologie & Mathématiques sur la Montagne’, Collège de France, Paris.
- jul 2014: organization of MMEE 2015 ‘Mathematical Models in Ecology & Evolution’, Collège de France, Paris, jul 8–10, 2015 (250 participants).
- may 2016: organization of workshop ‘Mathematical models for Epidemiology and Phylogenetics’, University of Lille 1, May 30–31, 2016.
- jun 2016: organization of workshop ‘Modeling and Predicting Ecological Transitions’, Collège de France, Paris, June 9, 2016.

Invitations

1. Invited lecture series

Population Dynamics and Random Genealogies. IX Simposio de Probabilidad y Procesos Estocásticos, Guanajuato, Mexico, nov 20–24, 2006.

Branching Processes and Splitting Trees. First Bath Postgraduate Workshop in Probability, jul 8–11, 2008.

Modern Aspects of Discrete Branching Processes. School CIMPA (Centre International de Mathématiques Pures et Appliquées), St-Louis, Senegal, apr 12–23, 2010.

Population Dynamics and Evolution in the Trait Space. Young European Probabilists VIII, Eurandom, Eindhoven, Netherlands, mar 14–18, 2011.

Inference of Diversification Processes from Phylogenetic Tree Shapes. U. Católica, Santiago, Chile, nov 6–9, 2012.

Probabilistic models for the (sub)Tree(s) of Life. XIX Escola Brasileira de Probabilidade, Sao Paulo, aug 3–8, 2015.

2. Invited plenary sessions

Fourth Cornell Summer School in Probability (Cornell University, NY), jun 27 and jun 30, 2008.

International Workshop on Applied Probability, Compiègne (France), jul 10, 2008.

Center for Interdisciplinary Research in Biology (inauguration), Collège de France, may 17, 2011.

Conference on Stochastic Models in Ecology, Evolution and Genetics, U. Angers, dec 11, 2013.

Mathematical and Computational Evolutionary Biology 2016, Hameau de l'Etoile (34), France, jun 12-16, 2016.

Journées MAS of SMAI (French Society for Applied and Industrial Mathematics), U. Grenoble, aug 29-31, 2016.

3. Invited conference lectures: 51 since 2000.

4. Invited departmental seminars: 51 since 2001.