

CNRS Research Director

TED Fellow

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EDUCATION AND PROFESSIONAL EXPERIENCE

Research Director, CNRS (DR2)

Institut de Biologie de l'Ecole Normale Supérieure, Jan 2014-present

HDR from the Ecole Normale Supérieure, December 2014

Research Scientist, CNRS, Centre de Mathématiques Appliquées, Ecole Polytechnique, Oct 2010-Jan 2014

Adjunct Faculty, Ecology & Evolutionary Biology, University of Arizona, Sept 2013 - present

Associate member, Center for Interdisciplinary Research in Biology, Collège de France, June 2011 – present

Postdoctoral Researcher, Ecology, 2006-2010

University of California, Berkeley (Potts Lab) 2010

University of Pennsylvania, Philadelphia (Plotkin Lab), 2009 - 2010

University of Oregon, Eugene (Green Lab and Bohannan Lab), 2007-2009

University of California, Merced (Green Lab), 2006-2007

Ph.D., Environmental Sciences, 2001-2005

University of Bordeaux I, France

Dissertation Committee: Alain Boudou, Jacqueline Garnier-Laplace, Claude Fortin

Dissertation Title: “Uptake of selenite –Se(IV)- in the unicellular green algae *Chlamydomonas reinhardtii*. Bioaccumulation and effect induced on growth and ultrastructure.”

M.S., Ecology, June 2001

University of Paris VI – ENS Ulm, France

Dissertation Title: “A Model of sexual selection using adaptive dynamics: Reversibility of the Fisher’s runaway”

B.S., Mathematics, June 2000

Ecole Normale Supérieure, Cachan, France

Agrégation in mathematics (nationwide competition for teaching positions at the university)

DISTINCTIONS & OUTREACH

2017 Irène Joliot Curie Price « Young Scientific Woman »

2016 Chief International Partnerships Officer of OneZoom
2016 Nominated to join the AcademiaNet network of Outstanding Female Academics
2016 TED Fellow
2015 CNRS bronze medal
2012 CNRS prize for outstanding research

FUNDING

2018-2021 Twinning grant (PI Anna Papadopoulou, € 999,320, € 225,093 for Morlon)
2017-2018 Labex Memolife (PI Amaury Lambert, € 140,000)
2016-2020 ANR (PI Rodolphe Rougerie, € 495,097)
2015-2018 CESAB - PI Rodolphe Rougerie
2015-2016 PROCOPE, co-PI with Florian Hartig
2014-2019 ERC, Consolidator Grant – PI Morlon (€ 1,857,856)
2014-2016 Marie-Curie IEF (Morlon scientist in charge of grant to O. Missa, € 202,405)
2013-2016 ANR Blanc (PI Christopher Baralotto, € 600,000)
2013-2015 CEBA PI Jérôme Chave & Alain Franc (€ 300,000)
2013-2015 Marie-Curie IOF (Morlon scientist in charge of grant to P.H. Fabre, co-PI J. Losos, € 268,781)
2013-2016 ANR JCJC (PI Hervé Sauquet, € 250,000)
2012 France-Berkeley Fund (PI Morlon, co-PI Charles Marshall, € 10,000)
2012 Chaire Francaise dans l'Etat de Sao Paulo (Brésil) - PI Morlon (co-PI Tiago Quental)
2011-2015 ANR, Chaire d'Excellence - PI Morlon (€ 283,000)
2011-2015 CESAB - PI Christophe Thébaud
2008-2011 CNRS - PI Jérôme Chave (€ 167,000)
2007 MESR, Initiative post-doc (€ 5,000)
2002-2005 MESR PhD fellowship (declined)
2001 MESR Master fellowship

SUPERVISION

2019- Ignacio Quintero (PhD, Yale University), post-doctoral researcher
2018- Ana Catarina Sila (PhD, Lisbon University), post-doctoral researcher
2018- Carmelo Fruciano (PhD, University of Catania), post-doctoral researcher
2017- Guilhem Sommeria (PhD, Université de Toulouse), post-doctoral researcher
2017- Leandro Aristide (PhD, University of La Plata), post-doctoral researcher
2016-2018 Olivier Missa (PhD, Free University of Brussels), post-doctoral researcher
2014-2018 Julien Clavel (PhD, Université de Lyon), post-doctoral researcher
2014-2018 Eric Lewitus (PhD, University College London), post-doctoral researcher
2016-2017 Renske Gudde (PhD, University of Reading), post-doctoral researcher
2014-2016 Jonathan Drury (PhD, UCLA), post-doctoral researcher
2012-2014 Daniel Moen (PhD, Stony Brook University), post-doctoral researcher
2012-2014 Fabien Condamine (PhD, Université de Montpellier), post-doctoral researcher

2014-2016 Olivier Missa (PhD, Free University of Brussels), Marie-Curie post-doctoral fellow
2013- 2014 Pierre Henri Fabre (PhD, Université de Montpellier), Marie-Curie post-doctoral fellow

2018- Sophia Lambert, graduate student in biology at the ENS
2018- Benoit Perez, graduate student in biology at the ENS (co-director MA Sélosse)

- 2015- Odile Maliet, graduate student in biology at the ENS (co-director Nicolas Loeuille)
 2014- Marc Manceau, graduate student in biology at the ENS (co-director Amaury Lambert)
 2013-2017 Guilhem Sommeria, graduate student (co-director Jérôme Chave)
 2014-2015 Brian Maitner, graduate student at the University of Arizona
 2013-2016 Luna Sanchez Reyes, graduate student at the University of Mexico
 2013-2015 Jana Smrkova, graduate student at the University of South Bohemia
 2012-2016 Hannah Salim, Chateaubriand fellow (graduate student at Berkeley)
 2011-2014 Jonathan Rolland, graduate student in biology
- 2018 Margaux Bieuville, master student in Biology, Erasmus Mundus
 2018 Sophia Lambert, master student in Biology, Center for Interdisciplinary Research
 2017 Benoit Perez, master student in Biology, Ecole Normale Supérieure
 2016 Cesar Martinez, master student in Biology, AgroParisTech
 2016 Linh-Phuong Nguyen, master student in Biology, Ecole Normale Supérieure
 2013 Mircea Sofonea, master student in Biology, Ecole Normale Supérieure
 2013 Victoria Culshaw, master student in Statistics & Biology, University of St-Andrews
 2012 Elizabeth Reyes, master student in Biology, Université Paris-Sud
 2012 Prince Peprah, master student in Mathematics, Ecole Polytechnique
 2012 Yacine Ben Chehida, master student in Biology, Université Pierre et Marie Curie
 2011 Marc Manceau, master student in Biology, Ecole Normale Supérieure
- 2017- Samuel Delbecq, L3 student in Biology, Ecole Normale Supérieure
 2016- Camille Saade, L3 student in Biology, Ecole Normale Supérieure
- 2015-2016 Olivier Billaud, engineering internship, AgroParisTech

TEACHING

- 2017 Mini-course in Mathematics in Biology, 9th Swedish Meeting, Vasteras
 2016- Seminars for the Mathematics for Life Sciences Master 2 Program
 2014- International PhD course, University of Copenhagen
 2013- Biology of Ecological Systems, Master 1, Ecole Normale Supérieure
 2016 Seminars for the Life Science program at the Ecole des Ponts
 2015-2016 Project in Computational Biology, Ecole Normale Supérieure
 2013-2015 Mathematics for Life Sciences, Master 2, Université Paris-Sud, Ecole Polytechnique, Ecole Normale Supérieure de Cachan
 2012-2014 Advanced Teaching (EAs), Ecole Polytechnique
 2012 Ecole thématique du CNRS – Do Son, Vietnam
 2010 Ecole thématique du CNRS – Kourou, Guyane Française
 2006-2012 Invited lectures at the University of Oregon, the University of California Berkeley, the Ecole Normale Supérieure, the Ecole Polytechnique, and the Museum of Natural History
 2002-2005 Statistics for Biology, Master 1-2, Université de Bordeaux
 2000-2001 Vacations, Université Panthéon-Sorbonne, Financial Mathematics, License, 2000-2001

EDITORIAL BOARD MEMBER

- 2014- PloS Biology
 2012- Ecology Letters

2011-2013 Systematic Biology

REVIEWER

Nature, Science, Proceedings of the National Academy of Sciences, PloS Biology, Nature Communications, Nature Ecology and Evolution, Ecology Letters, Systematic Biology, American Naturalist, Proceedings of the Royal Society B, Philosophical Transactions B, Ecology, Evolution, Methods in Ecology and Evolution, Journal of Theoretical Biology, Journal of Evolutionary Biology, New Phytologist, Oikos, Theoretical Ecology, Journal of Biogeography, Global Ecology and Biogeography, Microbial Ecology, PLOS One, Population Ecology, Journal of Vegetation Science.

The National Science Foundation, the European Research Council, the Agence Nationale de la Recherche, the Moore Foundation, the Wallenberg Academy Fellows program

F1000 Associate Faculty Member

Scientific expert for the AERES (French Evaluation Agency for Research and Higher Education)

SCIENTIFIC COMMITTEE

2016- Biodiversity Research Agency of the Reunion Island

2016- CNRS section committee 29 “Biodiversity, evolution and biological adaptation”

2016- CNRS GDR “Biodiversity Theory and Modeling”

2015- Mathematical Models in Ecology & Evolution

2014- Chaire Modélisation Mathématiques et Biodiversité

2013-2016 CNRS interdisciplinary section committee (CID 51)

2013- IBS National Representative for France

2013- CNRS GDR “Statistical Ecology”

2012- Statistical Methods for Post Genomic Data (SMPGD)

SOFTWARE DEVELOPMENT

R developer, RPANDA package (Phylogenetic ANalyses of DiversificAtion).

R developer, PICANTE package (Phylocom Integration, Community Analyses, Null models, Traits and Evolution in R). Collaboration with Steve Kembel.

PUBLICATIONS

Clavel, J., Aristide, L., Morlon, H. (2018) A penalized likelihood framework for high-dimensional phylogenetic comparative methods and an application to new-world monkeys brain evolution *Systematic Biology* 68: 93-116

Lewitus, E., Bittner, L., Malviya, S., Bowler, C., Morlon, H. (2018) Clade-specific diversification dynamics in marine diatoms since the Jurassic *Nature Ecology and Evolution* 11: 1715-1723

Nogues-Bravo, D., Rodriguez-Sanchez, F., Orisini, L., de Boer, E., Jansson, R., **Morlon, H.**, Fordham, D., Jackson, S.T. (2018) Cracking the code of past biodiversity response to climate change *Trends in Ecology and Evolution* 30: 765-776

Drury, J.P., Tobias, J.A., Burns, K.J., Mason, N.A., Shultz, A.J., **Morlon, H.** (2018) Contrasting impacts of competition on ecological and social trait evolution in songbirds *PloS Biology* 16(1): e2003563

Lewitus, E., Morlon, H. (2018) Detecting environment-dependent diversification from phylogenies: a simulation study and some empirical illustrations *Systematic Biology* 67:576-593

Bravo, G.A., Antonelli, A., Bacon, C.D., Bartoszek, K., Blom, M.P.K., Huynh, S., Jones, G., Knowles, L. L., Lamichhaney, S., Marcussen, T., **Morlon, H.**, Nakhleh, L.K., Oxelman, B., Pfeil, B., Schliep, A., Wahlberg, N., Werneck, F.P., Wiedenhoeft, J., Willows-Munro, S., Edwards, S.V. (2018) Embracing heterogeneity: Building the Tree of Life and the future of phylogenomics *PeerJ Preprints* 6 e26449v2

Drury, J.P., Grether, G., Garland, T., **Morlon, H.** (2017) An assessment of phylogenetic tools for analyzing the interplay between interspecific interactions and phenotypic evolution *Systematic Biology* 67:413-427

Clavel, J., Morlon, H. (2017) Accelerated body-size evolution during cold climatic periods in the Cenozoic *Proceedings of the National Academy of Sciences* 114: 4183-4188

Manceau, M., Lambert, A., Morlon, H. (2017) A unifying comparative phylogenetic framework including traits coevolving across interacting lineages *Systematic Biology* 66: 551-568

Sanchez-Reyes, L., Morlon, H., Magallon, S. (2017) Uncovering higher-taxon diversification dynamics from clade age and species-richness data *Systematic Biology* 66: 367-378

Chazot, N., Willmott, K.R., **Condamine, F.L.**, de-Silva, D.L., Freitas, V.L., Lamas, G., **Morlon, H.**, Giraldo, C.E., Jiggins, C.D., Joron, M., Mallet, J., Uribe, S., Elias, M. (2016) Into the Andes: multiple independent colonizations drive montane diversity in the Neotropical clearwing butterflies *Godyridina Molecular Ecology* 25: 5765–5784

Lewitus, E., Morlon, H. Natural constraints to species diversification (2016) *PloS Biology* 14(8): e1002532

Drury, J., Clavel, J., Manceau, M., Morlon, H. Estimating the effect of competition on trait evolution using maximum likelihood inference (2016) *Systematic Biology* 65: 700-710

Lewitus, E., Morlon, H. Characterizing and comparing phylogenies from their Laplacian spectrum (2016) *Systematic Biology* 65: 495-507

Missa, O., Dytham, C., Morlon, H. Understanding how biodiversity unfolds through time under neutral theory (2016) *Philosophical Transactions of the Royal Society B* 371: 20150226

Morlon, H., Lewitus, E., Condamine, F.L., Manceau, M., Clavel, J., Drury, J. RPANDA: an R package for macroevolutionary analyses on phylogenetic trees (2016) *Methods in Ecology & Evolution* 7: 589–597

Moen, D.S., Morlon, H., Wiens, J.J. Testing convergence versus history: convergence dominates phenotypic evolution for over 150 million years in frogs (2016) *Systematic Biology* 65: 146-160

Rolland, J., Condamine, F.L., Champak, R.B., Jiguet, F., **Morlon, H.** Dispersal is a major driver of the latitudinal diversity gradient of Carnivora (2015) *Global Ecology and Biogeography* 24: 1059-1071

Mouquet, N., Lagadeuc, Y., Devictor, V., Doyen, L., Duputié, A., Eveillard, D., Faure, D., Garnier, E., Gimenez, O., Huneman, H., Jabot, F., Jarne, P., Joly, D., Julliard, J., Kéfi, S., Kergoat, G.J., Lavorel S., Le Gall, L., **Morlon, H.**, Pinay, G., Pradel, R., Schurr, F.M., Thuiller, W., Loreau, M. (2015) Predictive ecology in a changing world *Journal of Applied Ecology* 5: 1293-1310

Morlon, H., O'Connor, T., Bryant, J.A., Charkoudian, L.K., Docherty, K.M., Jones, E., Kembel, S., Green, J.L., Bohannan, B.J.M. (2015) The biogeography of putative microbial antibiotic production *PloS One* 10(6): e0130659

Manceau, M., Lambert, A., **Morlon, H.** (2015) Phylogenies support out-of-equilibrium models of biodiversity *Ecology Letters* 18: 347-356

Condamine, F., Nagalingum, N.S., Marshall, C.R., **Morlon, H.** (2015) Origin and diversification of living cycads: a cautionary tale on the impact of the branching process prior in Bayesian molecular dating *BMC Evolutionary Biology* 15:65

Warren, B.H., Simberloff, D., Ricklefs, R.E., Aguilée, R., Condamine, F.L., Gravel, D., **Morlon, H.**, Mouquet, N., Rosindell, J., Casquet, J., Conti, E., Cornuault, J., Fernández-Palacios, J.M., Hengl, T., Norder, S.J., Rijdsdijk, K.F., Sanmartín, I., Strasberg, D., Triantis, K., Valente, L.M., Whittaker, R.J., Gillespie, R.G., Emerson, B.C., Thébaud, C. (2015) Islands as model systems in ecology and evolution: prospects fifty years after MacArthur-Wilson *Ecology Letters* 8: 200–216

Lambert, A., **Morlon, H.**, Etienne, R.S. (2015) The reconstructed tree in the lineage-based model of protracted speciation *Journal of Mathematical Biology* 70: 367-397

Reyes, E., Morlon, H., Sauquet, H. (2014) Presence in Mediterranean hotspots and floral symmetry affect speciation and extinction rates in Proteaceae *New Phytologist* 207:401-410

Morlon, H., Kefi, S., Martinez, N. (2014) Effects of trophic similarity on community composition *Ecology Letters* 17: 1495-1506

Etienne, R.S., **Morlon, H.**, Lambert, A. (2014) Estimating the duration of speciation from phylogenies *Evolution* 68(8): 2430-2440

Moen, D., Morlon, H. (2014) From dinosaurs to modern bird diversity – Extending the time-scale of adaptive radiation *PloS Biology* 12(5): e1001854

* **Rolland, J.**, Jiguet, F., Jønsson, K.A., **Condamine, F.L., Morlon, H.** (2014) Settling down of seasonal migrants promotes bird diversification *Proceedings of the Royal Society B* 281: 20140473

* Evaluated as being “of special significance in its field” by Ellen Ketterson on Faculty of 1000

Morlon, H. (2014) Phylogenetic approaches for studying diversification *Ecology Letters* 17: 508-525

Moen, D.S., Morlon, H. (2014) Why does diversification slow down? *Trends in Ecology and Evolution* 29: 190-197

* **Rolland, J., Condamine, F.L., Jiguet, F., Morlon, H.** (2014) Faster speciation and reduced extinction in the tropics explain the mammalian latitudinal diversity gradient *PloS Biology* 12(1): e1001775

* Jonathan receives the young researcher prize from the Fondation Bettencourt Schueller and the young researcher award from the SFE for this paper from his PhD

Condamine, F.L., Rolland, J., Morlon, H. (2013) Macroevolutionary perspectives to environmental change *Ecology Letters* 16: 72-85

Jaunatre, R., Buisson, E., Muller, I., **Morlon, H.**, Mesléard, F., Dutoit, T. (2013) New synthetic indicators to assess community resilience and restoration success *Ecological Indicators* 29:468-477

Morlon, H. (2012) Microbial cooperative warfare *Science* 334: 1184-1185

Dornelas, M., Buckland, S., Chazdon, R., Chao, A., Colwell, R., Curtis, T., Gotelli, N., Kosnik, M., McGill, B., Magurran, A., **Morlon, H.**, Mumby, P., Øvreås, L., Studeny, A., Vellend, M. (2012) Quantifying temporal change in biodiversity: challenges and opportunities *Proceedings of the Royal Society B* 280, 20121931

Morlon, H., Kemps, B., Plotkin, J.B., Brisson, D. (2012) Explosive radiation of a bacterial species group *Evolution* 66: 2577–2586

Rolland, J., Cadotte, M., Davies, J., Devictor, V., Lavergne, S., Mouquet, N., Pavoine, S., Rodrigues, A., Thuiller, W., Turcati, L., Winter, M., Zupan, L., Jabot F., **Morlon, H.** (2011) Using phylogenies in conservation: new perspectives *Biology Letters* 8: 692-694

Morlon, H., Parsons, T.L., Plotkin, J.B. (2011) Reconciling molecular phylogenies with the fossil record *Proceedings of the National Academy of Sciences* 108: 16327-16332

McInnes, L., Baker, W.J., Barraclough, T.G., Dasmahapata, K.K., Goswami, A., Harmon, L.J., **Morlon, H.**, Purvis, A., Rosindell, J., Thomas, G.H., Turvey, S.T., Phillimore, A.B. (2011) Integrating ecology into macroevolutionary research *Biology Letters* 7: 644-646

* **Morlon, H.**, Schwilk, D., Bryant, J., Marquet, P., Rebelo, T., Taus, C., Bohannan, B., Green, J. (2011) Spatial patterns of phylogenetic diversity *Ecology Letters* 14: 141-149

* Recommended by Jordi Bascompte on Faculty of 1000

***Morlon, H.**, Potts, M., Plotkin, J.B. (2010) Inferring the dynamics of diversification : a coalescent approach. *PloS Biology* 8(9) : e1000493

* Evaluated as “Must Read” by Katia Koelle on Faculty of 1000

Kembel, S.W., Cowan, P., Helmus, M. R., Cornwell, W., **Morlon, H.**, Ackerly, D., Blomberg, S. P., Webb, C. O. (2010) Picante: R tools for integrating phylogenies and ecology. *Bioinformatics* 26 : 1463-1464

Morlon, H., White, E. P., Etienne, R. S., Green, J. L., Ostling, A., Alonso, D., Enquist, B. J., He, F., Hurlbert, A., Magurran, A. E., Maurer, B. A., McGill, B. J., Olf, H., Storch, D., Zillio, T. (2009) Taking species abundance distributions beyond individuals. *Ecology Letters* 12 : 488-501

Bryant, J., Lamanna, C., **Morlon, H.**, Enquist, B., Green, J. (2008). Microbes on mountainsides: Contrasting elevational patterns of bacterial and plant diversity. *Proceedings of the National Academy of Sciences* 105 : S1505-S1511

Morlon, H., Chuyong, G., Condit, R., Hubbell, S., Kenfack, D., Thomas, D., Valencia, R., Green, J. (2008). A general framework for the distance-decay of similarity in ecological communities. *Ecology Letters* 11 : 904-917

Morlon, H., Fortin, C., Adam, C., Garnier-Laplace, J. (2006). Selenite transport and its inhibition in the unicellular green alga *Chlamydomonas reinhardtii*. *Environmental Toxicology and Chemistry* 5 : 1408-17

Morlon, H., Fortin, C., Floriani, M., Boudou, A., Garnier-Laplace, J. (2005). Toxicity of selenite in the unicellular green alga *Chlamydomonas reinhardtii*: comparison between effects at the population and sub-cellular level. *Aquatic toxicology*, 73 : 65-78

Morlon, H., Fortin, C., Adam, C., Garnier-Laplace, J. (2005). Establishing links between toxicity and bioaccumulation of selenite in the unicellular green alga *Chlamydomonas reinhardtii*. *Radioprotection*, 40. S101-S106

Proceedings

Morlon, H. (2014) Understanding how biodiversity is distributed in space and time *in* Formal Methods in Macro-Biology *Lecture Notes in Computer Science* Volume 8738, pp 36-39

Books

Jessus, C. Etonnant vivant, Découvertes et promesses du XXI^e siècle (2017) CNRS Editions

Alvarado, S., Baraloto, C., Bremond, L., Bretagnolle, F., Buisson, E., Caillon, S., Claudet, J., Dounias, E., Elias, M., Favier, C., Fontaine, C., Forget, P.M., Garine-Wichatitsky, E., Hossaert-McKey, M., Mavingui, P., McKey, D., **Morlon, H.**, Murienne, J., Poncy, O., Prugnolle, F. (2015). *Écologie tropicale: de l'ombre à la lumière*. Editions recherche midi

Blogs

Morlon, H. (2016) RPANDA: a time machine for evolutionary biologists. [Methods.blog](#)

Eng, K. & Morlon, H. (2016) A newly drawn Tree of Life reminds us to question what we know. [IDEAS.TED.COM](#)

WORKSHOPS, SEMINARS AND CONFERENCES

Workshops

- *Island biodiversity genomics kickoff meeting (Nicosia, Cyprus) September 2018*

- *Phylogenomics and phylogeography: new models and insights from large scale data sets*, organized by Scott Edwards and Bengt Oxelman (Gothenburg, Sweden) May 2017
- *New Directions in Biodiversity Theory and Modelling*, organized by Michel Loreau, (Moulis) Oct 2015
- *CNRS Thematic School in Tropical Ecology*, organized by Pierre-Michel Forget (Gabon) Sept 2015
- *Identifying the regulators of biodiversity in deep time*, organized by Tiago Quental and Thomas Ezard, (Sao Paulo, Brazil) June 2015
- *Diversification & Bayesian statistics*, organized by F. Hartig and H. Morlon (Paris) March 2015
- *Innovations in biology, technology and culture*, organized by Pablo Marquet and Michael Hochberg, (Santiago, Chile) Jan 2015
- *New Directions in Biodiversity Theory and Modelling*, organized by Michel Loreau, (Moulis) Oct 2014
- *CESAB working group #4* “Community Assembly on Remote Islands: Does the Equilibrium Theory Apply?”, PI Christophe Thébaud, (Aix-en-Provence) March 2014
- *Statistical Ecology* working group, organized by Olivier Gimenez, (Montpellier) November 2013
- *France Berkeley Fund meeting* “Long-term diversity dynamics: reconciling molecular phylogenies with the fossil record”, organizer with Charles Marshall and Tiago Quental, (UC Berkeley) Sept 2013
- *CESAB working group #3* “Community Assembly on Remote Islands: Does the Equilibrium Theory Apply?”, PI Christophe Thébaud, (Aix-en-Provence) July 2013
- *NESCent meeting* "Integrating approaches to macroevolution: combining fossils and phylogenies", invited by Samantha Price, Lars Schmitz & Graham Slater (Durham, NC) April 2013
- *CNRS Workshop* "Ecology, Economy, Law", Modeling section, (Oléron) April 2013
- *CNRS Thematic School in Tropical Ecology*, Martine Hossaert (Vietnam) November 2012
- *INEE Prospective Days*, invited by Sonia Kefi, October 2012
- *Phylogenetic approaches to diversification*, co-organized with Amaury Lambert, October 2012
- *All Taxa Biodiversity Inventory (ATBI) workshop*, invited by Regis Ferriere, September 2012
- *CESAB working group #1* “Community Assembly on Remote Islands: Does the Equilibrium Theory Apply?”, PI Christophe Thébaud, September 2012
- *Selection in Population Genetics*, Michael Desai and Aleksandra Walczak (Ecole Normale Supérieure, Paris) December 2011
- *National Academies Keck Futures Initiative on Ecosystem Services* (UC Irvine) November 2011
- *CNRS Thematic School in Tropical Ecology*, Jérôme Chave (French Guyana) August 2011
- *Stochastic models in Ecology, Genetics and Evolution*, Sylvie Méléard (Agay, France) June 2011
- *Phylogeny and conservation*, Nicolas Mouquet (University of Montpellier, France) May 2011
- *Biodiversity Dynamics on Oceanic Islands – Linking past and present*, Rosemary Gillespie (UC Berkeley) December 2010
- *Amazonian Biodiversity*, Jérôme Chave (CNRS, French Guyana) October 2010
- *Biological diversity in a changing world*, Anne Magurran (Royal Society, Kavli, UK) October 2010
- *The Ecophylogeny of Complex Species Interactions*, Jennifer Dunne (SFI, Santa Fe) April 2010
- *Macroevolution of plant defenses*, Jérôme Chave (CNRS, French Guyana) March 2009
- *Biodiversity up-scaling*, Bill Kunin (Leeds, UK) February 2009
- *Tools and fresh approaches for species-abundance distributions* (NCEAS, Santa Barbara) October 2008
- *Tools and fresh approaches for species-abundance distributions* (NCEAS, Santa Barbara) October 2007

- *Metagenomics* (Moore Foundation, California) April 2007
- *Computational Biology* (UC Merced, California) 2006-2007

Seminars, conferences and interviews

- iDiv Conference, Leipzig, Germany, December 2018
- Biophysics Seminar, Paris, October 2018
- The New Age of Ocean Discovery: Opportunities from *Tara* Oceans, Radcliff Institute for Advanced Study, Conference, Harvard University, September 2018
- Living systems, Conference, Max Planck Institute, Tuebingen, Germany, September 2018
- Instituto Gulbenkian de Ciência, Seminar, Lisbon, Portugal, July 2018
- Evolution Paris, Symposium Talk, Paris, June 2018
- The Molecular Tree of Life: From Coalescence to Comparative Genomics, Keynote Speaker, Xuzhou, China, May 2018
- Colloquium of the parisian Applied Math group, Paris, February 2018
- Stazione Zoologica, Seminar, Naples, Italy, November 2017
- BES Macroecology Group Annual Meeting, Keynote Speaker, London, July 2017
- Pi Day, invited speaker, Théâtre des Variétés Paris, March 2017
- Seminars in Ecology & Evolution, invited speaker, Montpellier, March 2017
- Gordon Research Conference on Speciation 2017, Keynote Speaker, Italy, February 2017
- 12th seminar on Ecology & Behavior, Keynote Speaker, Lyon, June 2016
- TEDx talk, Hamburg, June 2016
- University of Zurich, Seminar, invited by Peter Linder, Zurich, March 2016
- TED talk, Vancouver, February 2016
- American Society of Naturalists conference, Keynote Speaker, Asilomar, California, January 2016
- III Iberian congress of biological systematics, Keynote Speaker, Vitoria-Gasteiz, Spain, December 2015
- Seminar of the Director, Ecole Normale Supérieure, invited by Marc Mézard, Paris
- Cross-disciplinary Genomics, seminar, invited by Marco Cosentino-Lagomarsino, Paris, November 2015
- CNRS, Les Fondamentales, debate, “What remains to be discovered? Climate Change”, November 2015
- Annual days in bioinformatics, Seminar, invited by Eduardo Rocha, Paris, October 2015
- 10th Systematics Association Biennial Conference, Keynote Speaker, Oxford, August 2015
- People Behind the Science Podcast, organized by Marie McNeely, August 2015
- Evolution 2015, Guaraja, Brazil, June 2015
- Frontiers in Ecology & Evolution, Invited Seminar, PSL-ENS, Paris, June 2015
- Phylogenetics and Biodiversity meeting, Invited Seminar, Philadelphia, April 2015
- Visionary and Retrospective Talk, Center for research and Interdisciplinarity, Paris, February 2015
- International Biogeography Conference, Keynote Speaker, Germany, January 2015
- Formal Methods in Macro-Biology, Keynote Speaker, Nouméa, October 2014
- Mathematical and Computational Evolutionary Biology, Keynote Speaker, Montpellier, June 2014
- Ecology and Evolutionary Biology at IBENS, ENS, May 2014
- International Biogeography Early Career Conference, Keynote Speaker, Canberra, January 2014
- Institut Henri Poincaré, Paris, Invited Seminar, November 2013
- University of Toulouse, Invited Seminar, November 2013

- University of Idaho, IBEST Seminar, invited by Luke Harmon, Moscow, April 2013
- University of Arizona, Quantitative Biology Colloquium, invited by Joe Watkins, Tucson, April 2013
- NESCent, Invited Talk, Durham, NC, April 2013
- CNRS prospective in ecology, economy and law, Oléron, March 2013
- University of Sao Paulo, invited by Tiago Quental, February 2013
- Southern-Summer School on Mathematical Biology, invited by Paulo Prado and Roberto Kraenkel, Sao Paulo, January 2013
- Evolmol Seminar, invited by Frederic Austerlitz, Paris, December 2012
- Online Phyloseminar, invited by Erik Matsen, November 2012
- University of Lausanne, Switzerland, invited by Nicolas Salamin, November 2012
- Evolution Meeting, Ottawa, July 2012
- Ecology Letters conference “Ecological Effects of Environmental Change”, invited by Mike Hochberg and Marcel Holyoak, June 2012
- Thematic day on phylogenies, Lille, invited by Celine Poux, June 2012
- Biodiversity and Bioinformatics, Lyon, invited by Laurent Duret & Michael Blum, June 2012
- Statistics for Systems Biology, Paris, invited by Mahendra Mariadassou, May 2012
- Center for Biodiversity and Climate, Frankfurt, invited by Susanne Fritz and Daniele Silvestro, April 2012
- Cologne Spring Meeting “Molecular Ecology and Evolution” Cologne, invited by Michael Lassig, February 2012
- Statistical Methods for Post-Genomic Data conference (SMPGD), session organizer, “Ecology & Genomics”, Lyon, January 2012
- University of Arizona, Tucson, Enquist Lab, December 2011
- Yale University, New Haven, Jetz Lab, November 2011
- Center for Mathematics and Informatics, Marseille, invited by Etienne Pardoux, October 2011
- Center for Macroecology, Evolution and Climate, Copenhagen, Denmark, invited by Pierre Henri Fabre, Jon Fjeldsa and Knud Jonsson, October 2011
- European Ecological Federation congress (EEF), session co-organizer and speaker, “Evolutionary Ecology, Ecosystem function and Conservation: new perspectives”, Avila, Spain, September 2011
- ESA Organized Oral Session “Evolutionary processes in ecological networks”, invited by Jennifer Dunne, Austin, TX, August 2011
- ECOBIO talk, Rennes, invited by Andreas Prinzing, June 2011
- ISEM Montpellier Seminar, “Long term diversity dynamics: a phylogenetic perspective”, invited by Nicolas Mouquet, May 2011
- Ecole Polytechnique, Paris, “New frontiers for biodiversity and biogeography theory”, May 2011
- Laboratoire ESE, Orsay, Midipile seminar, “Long-term diversity dynamics: reconciling molecular phylogenies with the fossil record”, invited by Tatiana Giraud
- Museum of Natural History, Paris, “Diversity dynamics: reconciling molecular phylogenies with the fossil record”, March 2011
- Ecole Normale Supérieure, Paris, Undergraduate Lecture on Community Phylogenetics, invited by Jean-Francois Le Galliard, March 2011
- Center for Ecology and Evolution Symposium, London, “Integrating ecology into macroevolutionary research”, invited by Albert Phillimore, March 2011
- University of California, Berkeley, Graduate Seminar, “Biodiversity dynamics: Linking past and present”, invited by Rosemary Gillespie, September 2010
- CNRS thematic school lecture on biodiversity, French Guyana, invited by Jérôme Chave, October 2010

- University of Arizona, Tucson, Enquist Lab, “Inferring diversity dynamics using phylogenies”, September 2010
- ESA Organized Session, "Phylogenetic beta-diversity", invited by Catherine Graham, August 2010
- Gordon Research Conference Poster Session “Metabolic Basis of Ecology”, University of New England, Maine, July 2010
- University of California, Berkeley, Marshall Lab, “ Ecological limits on diversification”, June 2010
- Ecole Polytechnique, France, “ Are there ecological limits on diversification?”, January 2010
- Western Evolutionary Biology Conference, “ Are there ecological limits on diversification?”, UC Berkeley, December 2010
- University of Oregon, Eugene, Green Lab, “A coalescent approach to the diversification process”, December 2010
- University of Pennsylvania, Philadelphia, Ecolunch, “A coalescent approach to the diversification process”, September 2009
- University of Pennsylvania, Philadelphia, Plotkin Lab, “Modeling the evolutionary history of ecological communities”
- CNRS, French Guyana, “Theory for microbial diversity”, March 2009
- Ecole Polytechnique, France, “ Ecology and biogeography of microbial diversity”, invited by Jérôme Chave, March 2009
- University of California, Berkeley “Spatial Evolutionary Diversity”, Oct 2008
- ESA organized session "Have Microbes Read the Book? Theoretical Ecology for Microbial Communities", Milwaukee, August 2008.
- University of Pennsylvania, Philadelphia, “Mathematical biology ”, July 2008
- Speaker at the Graduate Research Seminar (Gordon Research Conference) “Metabolic Basis of Ecology”, University of New England, Maine, July 2008
- Gordon Research Conference Poster Session “Metabolic Basis of Ecology”, University of New England, Maine, July 2008
- University of Oregon, Eugene, Graduate Seminar, “Scaling biodiversity”, invited by Jessica Green
- University of Montpellier II, France, “Ecology and Evolution of Communities”, December 2007
- Invited speaker at the University of Marseille- Luminy, France, “Microbiology, Geochemistry and Ecology”, December 2007
- National Academy of Sciences “In the light of evolution II: Biodiversity and extinction”, UC Irvine, December 2007
- ESA/SER Joint Meeting “Ecological Restoration in a Changing World”, San Jose, August 2007
Oral communication
- Monod Conference Poster Session “Environmental Genomics”, Roscoff, France, June 2007
- University of Toulouse- Paul Sabatier, France, “Evolution and Biological Diversity”, June 2007
- University of Marseille- Luminy, France, “Microbiology, Geochemistry and Ecology”, May 2007
- University of Sydney, Australia, “Molecular and Microbial Biosciences”, December 2006
- Arrowhead Conference Poster Session “Microbial genomics”, Lake Arrowhead, CA, September 2006
- University of California at Merced, “Computational Biology”, August 2006
- Gordon Research Conference Poster Session “Metabolic Basis of Ecology”, Bates College, Maine, July 2006
- ECORAD “The Scientific Basis for Environment Protection”, Aix-en-Provence, France, September 2004. Oral communication.
- Chapitre St-Laurent “Environmental protection: which priorities?” Quebec, Canada, June 2004
Oral communication

- Symposium for European Freshwater Sciences, Edinburgh, UK, July 2003 Oral communication
- SETAC Europe, Hamburg, Germany, April 2003 Oral communication

Résumé en français

Directrice de Recherche CNRS, Ecole Normale Supérieure, janvier 2014 - présent

Chargée de recherche CNRS, Ecole Polytechnique, octobre 2010 – janvier 2014

Adjunct Faculty, University of Arizona, Sept 2013 - présent

Membre associé, CIRB, Collège de France, June 2011 – présent

Post-doctorat, Ecologie, 2006-2010

Université de Californie à Berkeley (avec Matthew Potts), 2010

Université de Pennsylvanie à Philadelphie (avec Joshua Plotkin), 2009-2010

Université d'Oregon à Eugene (avec Jessica Green et Brendan Bohannon), 2007-2009

Université de Californie à Merced (avec Jessica Green) 2006-2007

Thèse, Ecotoxicologie, 2001-2005

Mention: Très honorable - Bordeaux I

Directeurs de thèse: A. Boudou et J. Garnier-Laplace

DEA, Ecologie, 2001

Mention : Bien (2^e) - Université Paris VI-ENS

Magistère de l'ENS, Mathématiques, 1997-2000

Agrégation de mathématiques - ENS Cachan

Classes Préparatoires, Mathématiques, 1995-1997

MP, MP* - Lycée Thiers, Marseille

Baccalauréat Scientifique, 1995

Mention : Très Bien, Félicitations du jury - Lycée L'Empéri, Salon de Provence