

Kyle Dexter

www.phylodiversity.net/kdexter

Curriculum Vitae

kgdexter@gmail.com

Current Position

Post-doctoral Fellow
Centre National de la Recherche Scientifique
Laboratoire de Evolution et Diversité Biologique
Université Paul Sabatier

Contact

Université Paul Sabatier
UMR 5174, Batiment 4R3
118 Route de Narbonne
31062 Toulouse, France
+33 (0) 5.61.55.64.33

Education

B.A., University of Virginia, 2002
Majors: Biology and Environmental Sciences
Advisors: Henry Wilbur, Hank Shugart, and Janis Antonovics

Ph.D., Duke University, 2008
Focus: Ecology, Evolution, and Population Genetics of Tropical Trees
Advisors: John Terborgh and Cliff Cunningham

Fellowships and Grants

- Post-doctoral Fellowship from Centre National de la Recherche Scientifique (2008-2010)
- DAAD (German Academic Exchange Service) Research Fellowship (2008) declined
- National Science Foundation Dissertation Improvement Grant (2006)
- National Science Foundation Pre-doctoral Fellowship (2004-2007)
- James B. Duke Fellowship from Duke University (2003-2007)
- Nouragues Research Station Grant (2008)
- Duke University Biology Department Grant-in-Aid of Research (2007)
- Lewis and Clark Fund for Exploration and Research Grant from American Philosophical Society (2006)
- Explorer's Club Exploration Fund Grant (2006)
- Duke University Dissertation Travel Award (2006)
- Sigma Xi Grant in Aid of Research (2005)
- Society of Systematic Biologists Graduate Student Award (2005)
- Vertical Integration Research Award from Trinity College, Duke University (2005)
- Amazon Conservation Association Doctoral Student Research Grant (2004)
- Tinker Research Grant from Latin American and Caribbean Studies Consortium (2004)
- Mellon Graduate Student Research Travel Grant (2004)
- Organization for Tropical Studies Post-Course Research Grant (2004)

Honors

- Perry Prize for Best Dissertation in Plant Sciences, Duke University (2009)
- Awarded Bass Named Instructorship at Duke University (2008)
- Selected for Preparing Future Faculty Program at Duke University (2005-2006)
- Selected for participation in the American Association for the Advancement of Science Program for Excellence in Science, entails 1 year sponsored membership in AAAS (2004-2006); nominated by Dean of Medical School (2004) and Dean of Trinity College (2005) at Duke University.

Publications

- **Dexter, K.G.**, Pennington T.D. *Inga pitmanii*: a new species of Inga from Madre de Dios, Peru. In review. *Novon*.
- **Dexter K.G.** The influence of dispersal on macroecological patterns in Lesser Antillean birds. In revision. *J. of Biogeography*.
- **Dexter K.G.**, Pennington T.D., and Cunningham C.W. Using DNA to assess errors in tropical tree identifications: how often are ecologists wrong and does it matter? In press. *Ecological Monographs*.
- Kursar T.A., **Dexter K.G.**, Lokvam J., Pennington R.T., Richardson J.E., Weber M.G., Murakami E., Drake C., McGregor R., Coley P.D. 2009. The evolution of anti-herbivore defenses and their contribution to species coexistence in the tropical tree genus Inga. *Proceedings of the National Academy of Sciences USA* 106 (43): 18073-18078.
- Loarie S.R., **Dexter K.G.**, Fleming-Davies A., Gronewold A.D., Liu J., McBride A., Pollina E. 2007. Density dependence and population growth: evaluating classical and Bayesian approaches to parameter estimation and model selection. In J.S. Clark "Statistical Computation for Environmental Sciences in R". pp 134-142. Princeton University Press, Princeton, NJ.
- Tripp E.A.* and **Dexter K.G.*** 2006. A New Northern Record of Palms in eastern North America (*Sabal minor*). *Castanea* 71 (2): 172-177.
*both authors contributed equally

Journals for which Reviewer

- Ecology
- Ecology Letters
- Oikos
- Malacological Bulletin
- Journal of Biogeography
- Biotropica
- Annals of Botany

Invited or Contributed Presentations

- Factors limiting the distribution and abundance of tropical trees. 24/9/09. AMAP Research Institute, Montpellier, France.
- Contribution of divergence in herbivore-defense strategies versus resource-use strategies to facilitating coexistence of tropical trees. 4/8/09. Ecological Society of America Annual Meeting. Albuquerque, New Mexico, USA.
- Phylogenetic and trait structure of Inga communities. 27/7/09. Association for Tropical Biology and Conservation Annual Meeting. Marburg, Germany.
- Evolution of climatic adaptation in tropical trees. 30/6/09. ESF Conservation Genetics and Thermal Adaptation Workshop. Bialowieza, Poland.
- Neutral ecological theory and phylogeography in lowland Amazonian tree communities. 17/2/09. Ecofog Research Campus. Kourou, French Guiana.
- Tree plots, DNA barcoding, and the contribution of tropical ecologists to species discovery. 28/6/08. Botanical Society of America Annual Meeting. Vancouver, BC, Canada.

Kyle Dexter

www.phylodiversity.net/kdexter

Curriculum Vitae

kgdexter@gmail.com

- Phylogeography and community ecology in lowland Amazonian tree communities. 4/1/08. University of Sheffield, Sheffield, UK.
- Dispersal dynamics and neutral theory in Amazonian tree communities. 3/18/08. British Ecological Society Tropical Ecology Group Meeting. Oxford, UK.
- DNA barcoding, historical biogeography, and community ecology of lowland Amazonian tree communities. 3/13/08. Royal Botanic Garden, Edinburgh, UK.
- Comparative phylogeography and neutral theory in lowland Amazonian tree communities. 3/4/08. Laboratoire Evolution and Diversité Biologique, Toulouse, France.
- An empirical assessment of neutral theory in lowland Amazonian tree communities. 2/13/08. Netherlands Ecological Research Network Annual Meeting. Lunteren, Netherlands.
- Neutral dynamics can explain patterns in the distribution, but not the abundance, of tropical trees. 8/8/07. Ecological Society of America Annual Meeting. San Jose, California, USA.
- The effects of dispersal on the distribution and abundance of tropical trees. 7/16/07. Association for Tropical Biology and Conservation Annual Meeting. Morelia, Mexico.
- La distribución de árboles tropicales. 5/10/06. La Universidad Agraria La Molina, Lima, Peru.
- Does dispersal limitation explain distribution patterns of tree species in Western Amazonia? 10/16/05. Pan-Amazon Research Group seminar series. University of North Carolina, Chapel Hill, North Carolina, USA.
- Overview of research into the ecology and distribution of *Inga* (Fabaceae). 9/27/05. Missouri Botanical Garden, St. Louis, Missouri, USA.
- Niche assembly versus dispersal assembly of tropical tree communities. 9/26/05. University of Missouri-St. Louis. St. Louis, Missouri, USA.
- Species-area curves in the Lesser Antillean Avifauna. 6/14/05. Society for the Study of Evolution Annual Meeting. Fairbanks, Alaska, USA.
- On the distribution and conservation of diversity in the Amazon basin. 3/30/05. Pan-Amazon Research Group seminar series. University of North Carolina, Chapel Hill, North Carolina, USA.
- Edge effects and parasitism dynamics in small mammals. 8/15/01. Undergraduate Research Symposium. Mountain Lake Biological Station. Pembroke, Virginia, USA.
- Feeding ecology of hippopotami in the Okavango Delta and implications for management. 5/15/01. Okavango Research Center Seminar Series. Okavango Research Center. Maun, Botswana.

Guest Lectures

- Patterns in the distribution and abundance of species. 10/15/07. For Ecology Class of Kathryn Perez at North Carolina Central University, Durham, North Carolina, USA.
- What determines tropical plant distributions? 2/15/07. For Tropical Ecology Class of Varun Swamy at Duke University, Durham, North Carolina, USA.
- Birds on islands as a model system in ecology and evolutionary biology. 4/10/06. For Ecology Class of Dr. Lynn Moseley at Guilford College, Greensboro, North Carolina, USA.

Professional Affiliations

- Ecological Society of America

Kyle Dexter

www.phylodiversity.net/kdexter

Curriculum Vitae

kgdexter@gmail.com

- British Ecological Society
- Association for Tropical Biology and Conservation
- Sigma Xi Scientific Research Society

Teaching/Mentoring Experience

- Instructor in Tropical Forest Ecology Course. Wageningen University, Netherlands. Course organized by Frans Bongers and Stefan Schnitzer (2009).
- Co-advised Juliette Chamagne, a master's student at Université Paul Sabatier in her project on historical biogeography of Chrysobalanaceae. JC was ranked #1 out of 16 master's students (2009).
- Co-advised Julien Vieux, a master's student at Université Paul Sabatier in his project on diversification of Sapotaceae. JV was ranked #4 out of 16 master's students (2009).
- Mentored six Peruvian undergraduate students working with me during several field expeditions (2004-2006).
- Mentored Duke University undergraduates, Diana Massey and Caroline Kim, plus visiting professor, Dr. Zehao Shen, in molecular ecology methods over the course of dissertation research (2004-2007).
- Teaching Assistant for Cell Biology and Genetics; professor: Dr. Allison Hill, Duke University (Fall 2004).
- Teaching Assistant for Molecular Evolution; professor: Dr. John Mercer, Duke University (Spring 2005).

Service

- SEEDS mentor for undergraduate student from underrepresented group at ESA Annual Meeting (2009).
- Seminar Committee for University Program in Ecology at Duke University (2006-2008)
- Chair of Graduate Student Steering Committee of Biology Department at Duke University (2006-2007)
- Selection committee for Gordon E. Hammes Faculty Teaching Award for professors in biomedicine at Duke University (2005)

Last updated February 2nd, 2010.