

Olivier Dangles, PhD, HDR
Born on 4th of July 1974 (France)
Married, 2 children
French
E-mail: dangles@legs.cnrs-gif.fr
odangles@puce.edu.ec

Home: F. Salazar y Mallorca, La Floresta, Quito, Ecuador
Work: Pontifical Catholic University of Ecuador, Department of Entomology, Science Building, Av. 12 de Octubre 1076 y Patria, Quito, Ecuador
Phone: (593)299-1700 ext: 1294, mobile: (593) 94945853

Personal webpage: <http://dangles.naturexpose.com>

ACADEMIC POSITIONS

- Since may 2006 **Visiting Professor** at the Pontifical Catholic University of Ecuador (PUCE)
Research: Climate change, Food security, Developing countries, Insect pests, Andean region, Spatial models, Phenology models, Participatory research, Population dynamics, Community ecology. Other interests: Stream ecology, Disease ecology, Diversity and ecosystem functioning.
Teaching: Community Ecology and Biodiversity, Biostatistics, Integrated pest management, conservation ecology. Referents: B. Francou (bernard.francou@ird.fr), L. Arcos (larcos@puce.edu.ec),
- 2006 **Investigator** (CR1) at the French Institute for Development (IRD) c/o CNRS and University of Orsay-Paris XI – Referent: JF Silvain (jean-francois.silvain@legs.cnrs-gif.fr)
- 2002-2005 **Assistant Professor**, Tours University (France), UMR CNRS 6035 – Research Institute on Insect Biology (IRBI) - Group on Multitrophic interactions – Referent: J. Casas (casas@univ-tours.fr)
Research: Evolutionary Ecology & bionics of invertebrates (Insects, Arachnids), Sensory ecology, Biodiversity and ecosystem functioning
Teaching: Conservation Biology, biogeography, structure and function of ecosystems, invertebrate systematics.

EDUCATION

- 2007 **HDR**, Diploma of Ability to Supervise Investigations, Tours University, France. Referents: J. Casas (casas@univ-tours.fr), L. Chittka (l.chittka@qmul.ac.uk), D. Irschick (irschick@bio.umass.edu), C. Berstein (carlosbe@biomserv.univ-lyon1.fr), M. Greenfield (michael.greenfield@univ-tours.fr). **The HDR thesis was published in The Quarterly Review of Biology (see paper #32)**
- 2001 **Post doctoral position**, Department of Ecology and Environmental Sciences, Umeå University, Sweden *Detritivorous invertebrates and ecosystem function in disturbed ecosystems*, Referent: Björn Malmqvist (bjorn.malmqvist@emg.umu.se)
- 2000 **PhD in Ecology**, University of Metz, France
Structure and function of acidified stream ecosystems: litter decomposition and benthic communities.
External Referents: MO Gessner (EAWAG, CH), E. Chauvet (CNRS Toulouse, F), S. Ormerod (Cardiff University, UK)
- 1996 **MSc in Environmental sciences & Agronomy**, University of Nancy, France
- 1993 **BS in Zoology and Botany**, University Pierre & Marie Curie, Paris, France

PEER-REVIEWED PUBLICATIONS

See publication metrics on <http://www.researcherid.com/rid/C-4924-2009>

- [47] Dangles, O., Crespo-Pérez V., Andino P., Espinosa R, Calvez R, and Jacobsen D (2011) Predicting richness effects on ecosystem function in natural communities: insights from high elevation streams. **Ecology**, in press.
- [46] Hernandez N., Barragan, A, Dupas, S, Silvain JF, Dangles O (2010) Wing shape variations in an invasive moth are related to sexual dimorphism and altitude. **Bulletin of Entomological Research**. *In press*.
- [45] Acurio A., Rafael V. & Dangles O. (2010) Exotic Species in Continental Rain Forests: the Case of Drosophilids (Diptera, Drosophilidae) in the Ecuadorian Amazon. **Biotropica**, *in press*.
- [44] Perez, C., Nicklin, C, Dangles, O., Vanek, S., Sherwood, S., Halloy, S., Martinez, R., Garret, K., Forbes, G. (2010) Climate Change in the high Andes: Implications and adaptation strategies for small scale farmers. **International Journal of Environmental, Cultural, Economic and Social Sustainability** 6: 78-88.
- [43] Dangles, O., Carpio, F.C., Villares, M., Yumisaca, F., Liger, B., Rebaudo, F. and Silvain, J.F. (2010) Community-based research helps farmers and scientists to manage invasive pests in the Ecuadorian Andes. **Ambio**, 39: 325-335.
- [42] Jacobsen D., Dangles O., Andino P., Espinosa R., Hamerlík L. and Cadier, E. (2010) Longitudinal zonation of macroinvertebrates in an Ecuadorian glacier-fed stream: do tropical glacial systems fit the model? **Freshwater Biology** 55, 1234-1248.
- [41] Casas, J. & Dangles O. (2010) The physical ecology of fluid sensing in Arthropods. **Annual Review of Entomology** 55, 505-520.
- [40] Desutter-Grandcolas, L. Blanchet E., Robillard, T., Magal C., Vannier F., Dangles O. (2010) Evolution of the cercal sensory system in a tropical cricket clade (Insecta: Orthoptera: Grylloidea: Eneopterinae): A phylogenetic approach. **Biological Journal of the Linnean Society**, 99: 614-631.
- [39] Suarez-Davalos V, Dangles O., Villacis AG, Grijalva MJ (2010) Microdistribution of sylvatic triatomine populations in Central-coastal Ecuador. **Journal of Medical Entomology** 47: 80-88.

Editor of a special issue « Entomology in Ecuador » in the Annales de la Société Entomologique de France - Total of 9 articles (5 as a coauthor) published by the team of the PUCE Museum of Entomology. Highlighted in El Comercio (biggest selling newspaper in Ecuador) – 28/02/2010

- [38] Dangles O., Barragán AR, Cárdenas RE, Onore G, Keil C (2009) Entomology in Ecuador: Recent developments and future challenges. **Annales de la Société Entomologique de France**, 45 : 424-436.
- [37] Barragán AR, Dangles O., Cárdenas RE, Onore G (2009) The history of entomology in Ecuador. **Annales de la Société Entomologique de France**, 45: 410-423.
- [36] Cárdenas RE, Buestán J, Dangles O (2009) Diversity and distribution models of horse flies (Diptera: Tabanidae) from Ecuador. **Annales de la Société Entomologique de France**, 45: 511-528.
- [35] Carpio C, Donoso DA, Ramón G, Dangles O (2009) Short term response of dung beetle communities to disturbance by road construction in the Ecuadorian Amazon. **Annales de la Société Entomologique de France**, 45: 455-469.
- [34] Donoso DA, Salazar F , Maza F, Cárdenas RE, Dangles O (2009) Diversity and distribution of type specimens deposited in the Invertebrate section of the Museum of Zoology QCAZ, Quito, Ecuador. **Annales de la Société Entomologique de France**, 45: 437-454.

- [33] Dangles, O., Mesías, V., Crespo-Perez, V., and Silvain, J.F. (2009) Crop damage increases with pest species diversity: evidence from potato tuber moths in the tropical Andes. **Journal of Applied Ecology**, 46: 1115-1121. *Highlighted in the Activity Report 2009 of the IRD.*
- [32] Dangles, O., Irschick, D., Chittka, L. and Casas, J. (2009) Variability in sensory ecology: expanding the bridge between physiology and evolutionary biology. **The Quarterly Review of Biology**, 84: 51-74. *See also Sciences au Sud n°50*
- [31] Dangles, O., Carpio, C, Barragan, A, Zeddarn, J-L. and Silvain, J.-F. (2008) Temperature as a key driver of ecological sorting among invasive pest species in the tropical Andes. **Ecological Applications**, 18: 1795-1809. *Highlighted in "Fiche actualité scientifique de l'IRD", n°323*
- [30] Zeddarn, J-L, Orbe, K, Lery, X, Dangles, O., Dupas, S. & Silvain, J-F (2008) An isometric virus of the potato tuber moth *Tecia solanivora* (Lepidoptera : Gelechiidae) has a tri-segmented RNA genome. **Journal of Invertebrate Pathology**, 99: 204-211.
- [29] Dangles, O., Steinmann, T., Pierre, D., Vannier, F. and Casas, J. (2008) Relative contributions of organ shape and receptor arrangement to the design of cricket's cercal system. **Journal of Comparative Physiology A**, 194: 653-663.
- [28] Casas, J., Steinmann, T., Dangles, O. (2008) Aerodynamic signature of running spiders. **PLoS ONE**, 3(5): e2116.
- [27] Felten, V., Tixier, G., Guérolde, F., De Crespigny De Billy, V. & Dangles, O. (2008) Quantification of diet variability in a stream amphipod: implications for ecosystem functioning. **Fundamental and Applied Limnology**, 170: 303-313.
- [26] Puillandre, N., Dupas, D., Dangles, O., Zeddarn, J.-L., Barbin, K. and Silvain, J.-F. (2008) Genetic bottleneck in invasive species: the potato tuber moth adds to the list. **Biological Invasions** 10: 319-333.
- [25] Dangles, O., Pierre, D., Christides, J.P. and Casas, J. (2007) Escape performance decreases with ontogeny in wild crickets. **Journal of Experimental Biology**, 210: 3165-3170. *[Highlighted in Journal of Experimental Biology "Inside JEB" 208: i]*
- [24] Steinmann, T., Casas, J., Krijnen, G. & Dangles, O. (2006) Air-flow sensitive hairs: boundary layers in oscillatory flows around arthropod appendages. **Journal of Experimental Biology** 209: 4398-4408.
- [23] Dangles, O., Pierre, D., Magal, C., Vannier, F. & Casas, J. (2006) Ontogeny of air-motion sensing in cricket. **Journal of Experimental Biology**, 209: 4363-4370.
- [22] Dangles, O., Ory, N., Steinmann, T., Christides, J-P, & Casas, J. (2006) Spider's attack vs. cricket's escape: velocity modes determine success. **Animal Behaviour**, 72: 603-610.
- [21] Magal, C., Dangles, O., Caparroy, P. & Casas, J. (2006) Hair canopy of cricket sensory system tuned to predator signals. **Journal of Theoretical Biology**, 241: 459-466.
- [20] Dangles, O., Casas, J. & Coolen, I. (2006) Textbook cricket goes to the field: the ecological scene of the neuroethological play. **Journal of Experimental Biology** 209: 393-398.
- [19] Coolen, I, Dangles, O. & Casas, J. (2005) Social learning in non-colonial insects. **Current Biology** 15: 1931-1035. *[Highlighted in Nature "Research highlights" 438: 240], [Faculty 1000 factor = 3.0].*
- [18] Dangles O., Magal, C., Pierre, D., Olivier, A. & Casas, J. (2005) Variation in morphology and performance of predator-sensing system in wild cricket populations. **Journal of Experimental Biology** 208 : 461-468. *[Highlighted in Journal of Experimental Biology "Inside JEB" 208: i]*
- [17] Dangles, O. & Malmqvist, B. (2004) Species richness-decomposition relationships depend on species dominance. **Ecology Letters** 7: 395-402.

- [16] Dangles, O., Gessner, M.O., Guérol, F. & Chauvet, E. (2004) Impacts of stream acidification on litter breakdown: implications for assessing ecosystem functioning. **Journal of Applied Ecology** 41: 365-378.
- [15] Covich, A.P. Austen, M.C. Bärlocher, F., Chauvet, E., Cardinale, Dangles, O. *et al.* (2004) The Role of Biodiversity in the Functioning of Freshwater and Marine Benthic Ecosystems. **BioScience** 54: 767-775.
- [14] Dangles, O., Malmqvist, B. & Laudon, H. (2004) Naturally acid freshwater ecosystems are diverse and functional: evidence from boreal streams. **Oikos** 104: 149-155.
- [13] Dangles, O. & Chauvet, E. (2003) Effects of stream acidification on fungal biomass in decaying beech leaves and leaf palatability. **Water Research** 37: 533-538.
- [12] Dangles, O., Jonsson, M., Malmqvist, B. (2002) The importance of detritivore species diversity for maintaining stream ecosystem functioning following the invasion of riparian plant. **Biological Invasions** 4: 441-446.
- [11] Dangles, O. (2002) Functional plasticity of benthic macroinvertebrates: implication trophic dynamics in acid streams. **Canadian Journal of Fisheries and Aquatic Sciences** 59: 1563-1573.
- [10] Jonsson, M., Dangles, O., Malmqvist, B. & Guérol, F. (2002) Simulating species loss following disturbance: assessing the effects on process rates. **Proceedings of the Royal Society of London B** 269: 1047-1052. [Faculty 1000 factor = 3.0].
- [9] Masson, N., Guérol, F. & Dangles, O. (2002) Use of blood parameters as stress indicators in fish - Application to the river system of Lorraine. **Chemosphere** 47: 467-473.
- [8] Dangles, O. (2002) Aggregation of shredder invertebrates associated with benthic detrital pools in seven headwater forested streams. **Verhandlungen der internationale Vereinigung für theoretische und angewandte Limnologie** 28: 910-914.
- [7] Dangles, O., Guérol, F. & Usséglio-Polatera, Ph. (2001) Role of drifted particulate organic matter in the macroinvertebrate colonization patterns of leaf bags in headwater streams. **Freshwater Biology** 46: 1-12.
- [6] Dangles, O. & Guérol, F. (2001) Linking shredders and leaf litter processing: insights from an acidic stream study. **International Review of Hydrobiology** 86: 395-406.
- [5] Dangles, O. & Guérol, F. (2001) Influence of shredders in mediating breakdown rates of beech leaves in circumneutral and acidic forest streams. **Archiv für Hydrobiologie** 151: 649-666.
- [4] Dangles, O. & Guérol, F. (2001) Feeding activity of *Gammarus fossarum* (Crustacea: Amphipoda) in acidic and low mineralised streams. **Verhandlungen der internationale Vereinigung für theoretische und angewandte Limnologie** 27: 3062-3065.
- [3] Dangles, O. & Guérol, F. (2000) Structural and functional responses of benthic macroinvertebrates to acid precipitation in two forested headwater streams (Vosges Mountains, north-eastern France). **Hydrobiologia** 418: 25-31.
- [2] Dangles, O. & Guérol, F. (1999) Impact of headwater stream acidification on the trophic structure of macroinvertebrate communities. **International Review of Hydrobiology** 84: 287-297.
- [1] Dangles, O. & Guérol, F. (1998) A comparative study of beech leaf breakdown, energetic content, and associated fauna in acidic and non-acidic streams. **Archiv für Hydrobiologie** 144: 25-39.

Roques, A., Dangles, O., Gauthier, N., Sarah JL, Vayssières JF & Vidal, C. (2010) Les Bio-invasions d'insectes. In. *Des Insectes et des Plantes* (Eds. Thiery D., Calatayud P-A, Sauvion N., Marion-Poll F.), Editions PubliBook, Paris.

Vidal, C., Gauthier, N., Rochat D., Hérard F., Thiéry A., Vayssières JF, Dupas S., Dangles O., et al. (2010) Quelques exemples de bio-invasions dans le monde. In. *Des Insectes et des Plantes* (Eds. Thiery D., Calatayud P-A, Sauvion N., Marion-Poll F.), Editions PubliBook, Paris.

Dangles O., Nowicki F, Belen Mena (2010) Natura Maxima – Equateur, terre de biodiversité - 254 p. – IRD Editions. [French version of Biota Maxima]

Dangles O., Nowicki F, Belen Mena (2009) Biota Maxima – Ecuador biodiverso - 252 p. – PUCE-IRD Editions. [Text and photographs of Neotropical biodiversity; in Spanish]

Garassus P. & Dangles O. (2009) En raison d'un papillon – 30 min DVD [*movie about our research on potato tuber moths*].

Nowicki F., Dangles O. (2005) Coulisses de nos campagnes – Serpenoise Eds – 148p. [Text and photographic book of French wildlife]

TECHNICAL AND POPULAR RESEARCH PUBLICATIONS

- [13] Dangles O (2010) L'agriculture andine menacée par les insectes ravageurs. **Rapport d'activité 2009 de l'IRD**, p 22.
- [12] Dangles O. & Valencia R. (2010) La megadiversité de Yasuni? In. Dossier special grand angle sur la forêt tropicale, **Sciences au Sud** n°53.
- [11] Dangles, O. (2010) ¿Porque conservar la biodiversidad en el Ecuador? **Nuestra Ciencia** 12: 26-31.
- [10] Dangles, O. (2009) Los insectos de Galápagos. **Revista Ecuatoriana de Medicina y Ciencias Biológicas** 30: 110-111.
- [9] Dangles O. & Casas J. (2009) Ecologie sensorielle: une interface féconde, **Sciences au Sud** n°50.
- [8] Crespo-Perez, V., Rebaudo, F. & Dangles, O. (2009) Modelando la propagación de plagas invasoras. **Nuestra Ciencia** 11: 18-21.
- [7] Dangles O. (2008) Insectes phytophages et sécurité alimentaire dans la région nord andine. **Sciences au sud** n°45.
- [6] Dangles O., Dupas, S., Zeddarn JL (2008) Etudier la papa para mejorar la seguridad alimentaria. **El Comercio**, 14th July.
- [5] Dangles O. & Carpio C. (2008) Cuando los científicos y las comunidades andinas unen sus esfuerzos para luchar en contra de una plaga invasora - **Nuestra Ciencia** 10: 23-25.
- [4] Orbe, K., Rebaudo, F., Barragan, A., Dangles, O., Zeddarn, J.-L. (2006) Evaluación de la patogenicidad del virus Anchilibi en larvas de polillas de la papa *Tecia solanivora*, en relación con la combinación de pH y presión osmótica en dos diferentes buffers. **Investigacion y Desarrollo** 3 : 1-2.
- [3] Rebaudo, F., Dangles, O., Lery, X. Lopez-Ferber, M., Zeddarn, J.-L. (2006) Étude de l'efficacité biologique d'un granulovirus pour le contrôle de la teigne guatémaltèque de la pomme de terre *Tecia solanivora*. AFPP – **Comptes rendus de la 8ème Conférence Internationale sur les Maladies des Plantes**, Tours, 5-6/12/06.
- [2] Dangles O. & Silvain (2006) Développement durable: la société américaine d'écologie se mobilise - **Sciences au sud** n°34.
- [1] Dangles O. & Casas J. (2005) Quand la physique aide à comprendre les inventions de la nature et s'en inspire – **Microscop** 14(HS) : 30-31.

PRESENTATIONS AT CONFERENCES

Invited oral presentations

- Bambi Conference - Smithsonian Tropical Research Institute – Barro Colorado Island – September 2010
- Workshop on Biodiversity in Yasuni National Park, FLACSO, Quito (Ecuador), June 2010.
- Workshop for the year of Biodiversity – Introductory Plenary Conference – Quito (Ecuador) – May 2010
- Workshop “Integrated pest management of millet”– Niamey (Niger) – February 2010
- Young President Organization - Monthly Conference – Tumbaco (Ecuador) – November 2009
- Pontifical Catholic University of Ecuador – Quito (Ecuador) - February 2009 (tribute to Darwin)
- Polytechnic School of Ecuador, Quito (Ecuador) – July 2008
- McKnight international Climate conference – Lima (Peru) – April 2008
- Water Resource Institute of Quito (Ecuador) – February 2008
- University San Francisco of Quito (Ecuador) – September 2007
- 3rd CCRP McKnight Foundation - Cusco (Peru) – July 2007
- Linkecol Final Conference – Mallorca (Spain) - May 2004
- Aquatic Biodiversity and Ecosystem Functioning – Ascona (Italy) - April 2002

Oral presentations

- Tupper conference – Smithsonian Tropical Research Institute - Panama city – September 2010
- 2nd International Conference on the Páramos – Paramundi- Loja (Ecuador) - June 2009
- 4th CCRP McKnight Foundation – Cochabamba (Bolivia) – July 2008
- ESA Annual meeting – San José (USA)– August 2007
- BES Annual meeting - Manchester (UK) - September 2003
- Linkecol Conference – Ceske Budejovice (Czech Republic) - April 2002
- Symposium for European Freshwater Sciences 2 – Toulouse (France) - July 2001
- **[Prize for the best communication]**
- Societas Internationalis Limnologiae 01 - Melbourne (Australia)- February 2001
- Plant Litter Processing in Freshwaters 2 – Lunz (Austria)- September 1999
- Symposium for European Freshwater Sciences 1 – Anvers (Belgium)- August 1999
- ICP Waters Acidification – Zakopane (Poland)- October 1998
- Societas Internationalis Limnologiae 98 - Dublin (Ireland)- August 1998
- Plant Litter Processing in Freshwaters 1 - Bilbao (Spain)- September 1997
- International conference of French speaking Limnologist - Namur (Belgium)- July 1997

Posters

- 6th CCRP McKnight Foundation – Lima (Peru) – July 2010
- 5th CCRP McKnight Foundation – Puenbo (Ecuador) – November 2009
- American Society of tropical Medicine and Hygiene – New Orleans (USA)- December 2008
- McKnight Foundation International Conference – Paris (France)– December 2007
- CICAXII – Cultivos andinos – Quito (Ecuador)– July 2006
- ESA Conference - Ecology in an era of globalization – Merida (Mexico)– January 2006
- Conference Jacques Monod – Physical Ecology - Roscoff (France) - September 2005
- Gordon Research Conferences - Metabolic Basis of Ecology – Lewiston (USA)- July 2004
- nEUro-IT.net workshop – Bonn (Germany)- July 2004
- Days of the French Institute for Biodiversity – Tours (France)- December 2002
- National conference on biodiversity and conservation – Majalgaon (India)- July 2002
- Man and River Systems – Paris (France) - March 1998

AWARDS & FUNDINGS

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|------|---|
| 2010 | Second Prize for the best IRD Researcher (Prix Recherche Sud) |
| 2010 | PUCE Award for the Teacher’s Day (for the first time given to a foreign visiting professor) |

- 2009-2012 Innovative Approaches for Integrated Pest Management (PI) – McKnight Foundation
2009-2010 Biodiversity and climate change in páramo ecosystems (PI) - ECOFUND
2007-2008. Cellular automata and agent based modelling of invasive pests (PI) – McKnight Foundation
2005-2009. Biopesticide development and insect pest dynamics in the Andes (PI Population dynamics' working group) – McKnight Foundation
2002-2005. Cricket Inspired Perception and Autonomous Decision Automata (associate coordinator) – European Union
2000-2002. Linking Community and Ecosystem Ecology (student grant) – European Science Foundation

WORKSHOP ORGANIZATION

- March 2007. *"Modelling approaches to integrated pest management"* (20 participants, mainly engineers) – PUCE, Quito (March 27)
June 2010. *"Aquatic biodiversity in páramos"* (35 participants, students, engineers, officials) – PUCE, Quito (June 28-29)
August 2010. *"Climate change and the fate of Ecuadorian agriculture"* – (20 participants mainly engineers) - Conference Centre, Quito (August 3)

TEACHING EXPERIENCE

- 2009- PUCE Quito – Master of Conservation Biology - Coordinator of the module "Quantitative ecology" (60 h) - (with practices at the Yasuni Research Station - Amazonia)
2007- PUCE Quito – Community Ecology and Biodiversity, ecology of páramo (in Spanish).
2006- Integrated Pest Management courses to Ecuadorian potato growers (in Spanish)
2002-2006. Assistant professor at the University of Tours. Quantitative ecology, Conservation biology, Biogeography, Entomology, Biostatistics
2001. University of Umeå (Sweden). Environmental biomonitoring (in English)
2000. University of Metz. General ecology – Zoology – Biostatistics

STUDENT SUPERVISION

- *PhD students*

- 2009-2012: François Rebaudo, *Agent-based modelling in ecological-sociological Andean agrosystems*
2008-2011: Verónica Crespo-Perez, *Climate change and insect pest modelling*

- *Post-Master students*

- 2010 Vincent Fugère (McGill University), Testing the stress gradient hypothesis with stream invertebrates
2008 François Rebaudo (INA-PG), Agent based models and potato moths

- *Master 2 students*

- 2010 Sophie Cauvy (Paris VI) *Biodiversity and glacier retreat in the Ecuadorian Andes*
2009 Perrine Garassus (School of Arts of Grenoble) *Linking artistic and scientific approaches*
2007 Charlotte Mazoyer (University of Montpellier) *Interspecific interactions in potato moths*
2006 Fusaro Silvia (University of Padoue) *Development rate models in potato tuber moths*
2005 Elodie Blanchet (University of Tours) *Evolution of cricket cerci*
2004 Arnaud Dias (University of Tours) *Spatial distribution of the tortoise (Centrochelys sulcata) in Senegal*
2004 Nicolas Ory (University of Tours) *Predator prey interactions between crickets and spiders*
2003 Aurélie Olivier (University of Tours) *Variability of air sensing in cricket populations*

- *"Licenciatura" students*

- 2011 Gabriel Mosquero (PUCE) *Insect biodiversity in páramo stream ecosystems*

- 2010 Carlos Carpio (PUCE) *Functional diversity of dung beetle communities in fragmented forests*
 David Terán (PUCE) *Spatio-temporal dynamics of triatomine bugs*
 Mario Herrera (PUCE) *Temperature and inter-specific interactions among potato moths*
 Belen Buendia[§] (PUCE) *Facilitation in plants and insects along an altitudinal gradient*
 Belen Liger (PUCE) *Niche based modelling of the dynamic distribution of potato moths*
 Cristina Ibarra[§] (PUCE-USFQ) *Leaf breakdown and water quality in Amazonian stream*
 Daniel Cisneros[§] (PUCE-USFQ) *Benthic algae and water quality in Amazonian streams*
 2008 Carlos Carpio[§] (Univ. Santo Domingo) *Integrated pest management and potato moths*
 Patricio Andino (PUCE) *Response of stream invertebrates to altitude-related stresses*
 Victoria Suarez (PUCE) *Spatial distribution of Triatomine Hemiptera in forest habitats*
 Rodrigo Espinosa (PUCE) *Stream invertebrate communities along altitudinal gradients*
 2007 Veronica Crespo (PUCE) *Dispersion of adult invertebrates in páramo streams*
 Nathalia Hernandez[§] (PUCE) *Wing geometric morphology in *Tecia solanivora**

[§] Students in co-direction

INTERVIEWS

2010. - France 2 (20h news): Biodiversity in Yasuní in a feature on the Yasuní ITT initiative
 - Several interviews for French and Ecuadorian medias about the book BIOTA MAXIMA: radios (Radio Quito, Platinum, San Francisco, Succesos), newspapers (Hoy, El Comercio, l'Humanité, Vistazo), and television (Ecuavisa) – see the blog <http://biotamaxima.blogspot.com/>
 - Interview on RFI (International Francophone Radio, program « *C'est pas du vent* ») – *Insect pest and climate change*
 2009. Sciences au Sud n°51. « *Insectes ravageurs en Equateur* »
 2008. Terra Economica n°61. "*La patate à tout bout de champ*"
 2007. El Universo (Ecuadorian Newspaper). "*Agricultura y cambio climático*"
 2006. Science et vie Junior [French scientific magazine]. "*Le grillon champion de la fuite*"
 2005. Le journal du CNRS. "*Quand les grillons inspirent les scientifiques*"
 2003. Interview on RFI (International Francophone Radio) "*What is environmental entomology?*"

PHOTOGRAPHY ON THE WEB

- Photographs related to the food security in the Andean region are available on the INDIGO Base of the IRD <http://www.ird.fr/indigo/index.cgi>
 - Photographs related to worldwide wildlife can be seen on <http://www.naturexpose.com>

OTHER OUTREACH ACTIVITIES

- 2010 Café Scientifique "Biodiversidad" – Cultural Center of the PUCE (05/04)
 Exposition BIOTA MAXIMA – Cultural Center of the PUCE (11/03 to 11/04)
 Itinerary photographic exhibition on Biodiversity – IRD (France, Ecuador, El Salvador, Panama, Peru...)
 2008- 2009. Club JRD - Hands on with college students (11 year old) on water biomonitoring (Condamine College, Quito)

EXPERTISE

International scientific journals (indicates more than one review)*

- Several requests to referee manuscripts for scientific journals *Archiv für Hydrobiologie**, *African Journal of Food Science*, *Annales de la Société Française d'Entomologie**, *Annales de Limnologie**, *Biological Journal*

of the Linnean Society, *Biological Invasions*, *Biology Letters*, *Canadian Journal of Fisheries and Aquatic Sciences**, *Crop Protection*, *Journal of North American Benthological Society*, *Caribbean Journal of Science*, *Chemosphere*, *Ecography*, *Ecological Applications*, *Entomologia Experimentalis et Applicata*, *Environmental Pollution*, *International Journal of Agricultural Science*, *International Review of Hydrobiology*, *Journal of Applied Ecology*, *Journal of Experimental Biology*, *Hydrobiologia**, *Microbial Ecology*, *Oecologia*, *Oikos**, *Proceedings of the Royal Society of London B**, *Science of the Total Environment**, *Water Research**, *Wetlands*, and book chapters (Soil and Sediments Biodiversity and Ecosystem Functioning, Plant-Insect Interactions).

Scientific commissions

- Referee for scientific projects: French Institute for Biodiversity (IFB, 2006), ANR (2007), Foundation for Biodiversity Research (FRB, 2009);
- PhD referee (Metz 2003).
- Member of the scientific committee of the National Natural History Museum of Paris (2003-2005)
- Member of the scientific committee of Tours University (France, 2003-2005)
- Member of the scientific committee of the Wildlife Conservation Agency (France, 1999-2000)

Missions

- 2010. Panama, Invited by the French Embassy, Biodiversity in the Neotropics (4 days)
- 2010. Niamey (Niger), Invited by the INRAN, Modeling insect pest dynamics (1 week)
- 2008. Quito (Ecuador), Invited by the McKnight Foundation, statistics for agronomists (1 week)
- 2006. Cairo (Egypt), IRD, Ecology of insect pests (1 week)

Licenciatura comitees

- 2010. Renata León – *Flower preference in fruit flies of Quito*
Diego Céspedes – *Altitudinal limits in fruit fly communities in Pichincha*
Mauricio Vega – *Ecology and behaviour of social spiders along altitudinal gradients*
Andrea Narváez – *Reproductive behaviour and diet of a Leiuperidae frog*
- 2009. Juan Manuel Alava - *Population viability analysis of shark populations in Machalilla NP*
Gabriela López - *Description and life history of two species of Scarabeidae*
Lotty Birenberg - *Ecology of malaria vectors mosquitoes in Coastal Ecuador*
- 2008. Nina Velasco - *Butterfly communities in a cloud forest of the Chocó region*
Carolina Proaño - *Insects and their Laboulbeniales ectoparasites in a cloud forest*
Fernando Eskola - *Effect of hydroelectric plant on benthic invertebrate communities*
- 2007. Erika Carrera - *Sensory ecology of electric fish in Amazonian streams*
Andrea Acurio - *Diversity of Drosophilid flies in the Ecuadorian Amazon*
Rafael Cárdenas - *Horsetfly distribution along altitudinal gradients*
- 2006. Anita Villacis - *Ecology and life history of Chagas vectors Triatomine Hemiptera*

OTHER WORKING EXPERIENCES

- 2005. IRD, Yaoundé (Cameroon) - 1 month - Cave ecology
- 2005. University of Reading, United Kingdom, 1 week – Insect biomechanics
- 2001 & 2002. French Institute of Pondichery, India, 3 months - Fungal ecology
- 2000. CNRS, Toulouse (France), 3 months, microbial ecology
- 1998. INRA, Nancy (France) – 1 month – Leaf nutrient analysis
- 1996. INRA, Rennes (France) - 5 months – Aquatic ecotoxicology in mesocosms
- 1995. University Orsay-Paris XI, France - 5 months, Aquatic ecotoxicology in the lab
- 1995. Cetacean Research Station of Mingan Islands (Canada) 2 months, whale ecology

PERSONNAL INTERESTS

- Naturalist: herpetology, mammalogy, ornithology, entomology
- Wildlife photography - www.naturexpose.com
- Pre-Columbian arts
- Tennis, volley ball
- Languages: Fluent in French (native), English, and Spanish