

Amélie Lescroël

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Education

- 2001 – 2005 PhD in Ecology at the University Louis Pasteur, Strasbourg, France, under the supervision of Dr. Charles-André Bost
- 1999 – 2001 MSc
2000 – 2001: Ecophysiology, Energetics and Behavior at the University Louis Pasteur, Strasbourg, France
1999 – 2000: Population and Ecosystem Biology at the University of Rennes 1, France and University of Québec in Rimouski, Canada
- 1996 – 1999 BSc in Biology at the University of Rennes 1 and University of Poitiers, France

Research interests

My research focuses on the plasticity of foraging strategies and its consequences on individual fitness, especially in diving marine predators. I am also interested in investigating how individual phenotype (size, age, experience, physiological attributes, etc.) and environmental conditions influence these strategies.

Keywords: evolutionary ecology, functional ecology, foraging, behavioral plasticity, individual quality, energetics, demography, linear mixed models, diving behavior, seabirds, biotelemetry.

Current projects

- 2010 – 2015 (co-PI) Adélie penguin response to climate change at the individual, colony and metapopulation levels – funded by National Science Foundation
- 2010 – 2012 (Collaborator) Foraging ecology of Northern gannets – funded by the European Regional Development Fund

Appointments

- 2010 – present Associate Researcher at the University of Rennes 1, France
- 2010 – 2012 NSF Postdoctoral Research Fellow on project « Adélie penguin response to climate change at the individual, colony and metapopulation level »
- 2009 – 2010 Fixed-term Lecturer at the School of Life Sciences, University of Rennes 1, teaching undergraduate and graduate courses in ecology and statistics (240 hours)
- 2008 – 2009 Temporary Lecturer at the Universities of Poitiers, Tours and La Rochelle, France, teaching graduate courses in ecology and statistics (50 hours)
- 2005 – 2009 Postdoctoral Research Fellow at H.T. Harvey & Associates, USA and Centre d'Etudes Biologiques de Chizé - CNRS UPR 1934, France

2001 – 2005

PhD Research Fellow at Centre d'Ecologie et Physiologie
Energétiques – CNRS 9010 and Centre d'Etudes Biologiques de
Chizé – CNRS, France

Publications

- Grémillet D, Lescroël A. 2011. Libyan uprising may boost bluefin tuna. *Nature* 472: 169
- Thiébot JB, Lescroël A, Pinaud D, Trathan PN, Bost CA. 2011. Larger foraging range but similar habitat selection in non-breeding versus breeding sub-Antarctic penguins. *Antarctic Science* 23(2): 117-126
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- Ainley D, Ballard G, Blight LK, Ackley S, Emslie SD, Lescroël A, Olmastroni S, Townsend SE, Tynan CT, Wilson P, Woehler E. 2010. Impact of cetaceans on the structure of Southern Ocean food webs. *Marine Mammal Science* 26(2) : 482-498
- Lescroël A, Bajzak C, Bost CA. 2009. Breeding ecology of the gentoo penguin *Pygoscelis papua* at the Kerguelen Archipelago. *Polar Biology* 32(10) : 1495-1505
- Lescroël A, Dugger K, Ballard G, Ainley DG. 2009. Effects of individual quality, reproductive success and environmental variability on survival of a long-lived seabird. *Journal of Animal Ecology* 78(4): 798-806
- Cook TR, Lescroël A, Tremblay Y, Bost CA. 2008. To breathe or not to breathe? Optimal breathing, aerobic dive limit and oxygen stores in deep diving blue-eyed shags. *Animal Behaviour* 76(3): 565-576
- Cook TR, Bailleul F, Lescroël A, Tremblay Y, Bost CA. 2008. Crossing the frontier: vertical transit rates of deep diving cormorants reveal depth zone of neutral buoyancy. *Marine Biology* 154(2): 383-391
- Ainley D, Ballard G, Ackley S, Blight LK, Eastman JT, Emslie SD, Lescroël A, Olmastroni S, Townsend SE, Tynan CT, Wilson P, Woehler E. 2007. Paradigm lost or is top-down forcing no longer significant in the Antarctic marine ecosystem?. *Antarctic Science* 19(3): 283-290
- Lescroël A, Bost CA. 2006. Recent decrease in the population size of the gentoo penguin: threats at their northern range?. *Antarctic Science* 18(2): 171-174
- Lescroël A, Bost CA. 2005. Foraging under contrasted oceanographic conditions: the gentoo penguin at Kerguelen Archipelago. *Marine Ecology Progress Series* 302: 245-261
- Lescroël A, Ridoux V, Bost CA. 2004. Spatial and temporal variation in the diet of the gentoo penguin (*Pygoscelis papua*) at Kerguelen Islands. *Polar Biology* 27: 206-216