

Curriculum Vitae

Nicolas Loeuille

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Current job:

Lecturer, Université Paris VI.

Professional Preparation

University of Texas, Austin associate,	Section of Integrative Biology Post doctoral	
		2004-2006
Ecole Normale Supérieure, 2004 Paris, France	Laboratoire d'Ecologie	PhD. 2000-
Université Paris VI, 2000 Paris, France	Laboratoire d'Ecologie	MS 1999-
Ecole Normale Supérieure 1997-1998 Paris, France	Department of Geophysics	BS

Other Research Experience:

Research period at the University of California, Los Angeles, during six months (february-august 1999). Worked there with Michael Ghil in the Atmospheric Sciences Laboratory. Subject: Impact of climate and other external factors on animal population dynamics.

Publications:

17) Fontaine, C., Guimaraes, P. R. G. Jr., Kéfi, S., **Loeuille, N.**, Memmott, J., van der Putter, W. H., van Veen, F. J. F., Thébault, E. (2011) The ecological and evolutionary implications of merging different types of networks. *Ecology Letters*, doi 10.1111/J.1461-0248.2011.01688.x

16) Boudsocq, S., Barot, S. & **Loeuille, N.** (2011) Evolution of nutrient acquisition: when adaptation fills the gap between contrasting ecological theories. *Proceedings of the Royal Society of London, B.*, 278, 449-457

15) **Loeuille, N.** (2010) Influence of evolution on the stability of ecological communities. *Ecology Letters*, 13, 1536-1545.

14) Brännström, A., **Loeuille, N.**, Loreau, M. & Dieckmann, U. (2010) Emergence and maintenance of biodiversity in an evolutionary food web

model. *Theor. Ecol.* Doi 10.1007/s12080-010-0089-6

13) **Loeuille, N.** (2010) Consequences of adaptive foraging in diverse communities. *Functional Ecology*, **24**, 18-27.

12) **Loeuille, N.** & Loreau, M. (2009) Emergence of complex food web structure in community evolution models, in *Community Ecology*, ed Verhoef, H. A. & Morin, P. J. Oxford University Press, Oxford, UK.

11) **Loeuille, N.** (2009) Evolution of communities and ecosystems. In "The princeton guide to ecology", edited by S. A. Levin. Princeton University Press. Princeton, NJ.

10) Moritz, C., **Loeuille, N.**, Guarini, JM, Guizien, K. (2009) Quantifying the dynamics of marine invertebrate communities: what processes can maintain high diversity with low densities in the Mediterranean sea? *Ecological Modelling*, doi:10.1016/j.ecolmodel.2008.11.019

9) **Loeuille, N.** & Leibold, M. (2008) Ecological consequences of evolution in plant defenses in a metacommunity. *Theoretical Population Biology*, **74**, 34-45.

8) **Loeuille, N.** & Leibold, M. (2008) Evolution in metacommunities: on the relative importance of species sorting and monopolization in structuring communities. *The American Naturalist*, **171 (6)**, 788-799.

7) Urban, M. C., Leibold, M. A., Amarasekare, P., De Meester, L. Gomulkiewicz, R., Hochberg, M. E., Klausmeier, C. A., **Loeuille, N.**, de Mazancourt, C., Norberg, J., Pantel, J. H., Strauss, S. Y., Vellend, M., Wade, M. J. (2008) The evolutionary ecology of metacommunities. *Trends in Ecology and Evolution*, **23(6)**, 311-317.

6) **Loeuille, N.** & Loreau, M. (2006) Evolution of body-size in food webs: does the energetic equivalence rule hold? *Ecology Letters*, **9**, 171-178.

5) **Loeuille, N.** & Loreau, M. (2005) Evolutionary emergence of size-structured food webs. *Proc. Nat. Aca. Sci. USA*: **102(16)**, 5761-5766.

4) **Loeuille, N.** & Loreau, M. (2004) Nutrient enrichment and food webs: can evolution buffer top-down effects? *Theoretical Population Biology*: **65(3)**, 285-298.

3) **Loeuille, N.** & Ghil, M. (2004) Intrinsic and climatic factors in North-American animal population dynamics. *BMC Ecology*, **4:6**, doi:10.1186/1472-6785-4-6.

2) **Loeuille, N.**, Loreau, M. & Ferrière, R. (2002) Consequences of plant-herbivore coevolution on the dynamics and functioning of ecosystems. *Journal of Theoretical Biology*, **217**: 369-381.

1) Goffé B., Guérin R., Mercier E., **Loeuille N.**, Pubellier M. (1999) « Le contrôle tectonique de la morphologie de la baie de Somme, ses conséquences sur la sédimentation » In « La Baie de Somme en question » J.M. Hoeblich ed. Edition pour le littoral picard et la baie de Somme (25-32).

Invited Presentations

Loeuille N, de Mazancourt, C. & Amarasekare, P., 2008 Evolution of specialization in (meta)communities. ESA meeting,

symposium "evolution in metacommunities".

Loeuille, N. & Loreau M., 2007 Emergence of food web structures out of adaptive processes. ESA meeting, symposium "flexible foragers in food webs."

Loeuille, N., Loreau, M., Brännström, A. & Dieckmann, U., 2006 Predator prey coevolution in harvested food webs. GDR meeting, community ecology (Montpellier, France)

Loeuille, N., Loreau, M. & Leibold, M., 2006 Evolution and dispersal: consequences for the structure of communities. Université de Montpellier.

Loeuille, N. 2006 Review of empirical food-web datasets (and possible modelling implications). Fishace workshop, Oregrund, Sweden.

Loeuille, N., Brännström, A., Dieckmann, U. & Loreau, M., 2005 Emergence of complex size-structured food webs out of repetitive radiation. Diversitas meeting, Oaxaca.

Loeuille, N., Leibold, M. A. & Loreau, M. 2005 What do we gain by considering space in evolutionary models? Kellogg Biological Station.

Loeuille, N. & Loreau, M. 2004 Coevolution of species and ecosystem functioning. University of Texas, Integrative Biology.

Loeuille, N. & Loreau, M. 2004 Evolutionary emergence of size structured food webs. International Institute for Applied System Analysis, Laxenburg, Austria.

Loeuille, N., Hulot, F., Loreau, M. 2003 Resistance of complex adaptive systems to external perturbations: potential applications to ecotoxicology. French Institute for Nuclear Security, Cadarache, France.

Loeuille, N., Hulot, F., Loreau, M. 2002 Evolutionary and ecological consequences of pollutants on simple trophic systems. French Institute of Hydrology and Forestry, Lyon, France.

Invited Workshop

Evolution in metacommunities. 2005-2007. NCEAS working group.

Exploited food webs, 2006. Oregrund, Sweden.

Integrating biodiversity science for human well being. 2005. Diversitas, Oaxaca, Mexico.

Evolution in ecosystems. 2003. LINKECOL, Ekenas, Sweden.

Evolution in simple systems: reconciling models and experiments. 2001.

LINKECOL, University of Dundee, UK.

Winter School of Mathematical Ecology, 2000. Ecole Normale Supérieure.

Contributed Papers

Loeuille, N., Leibold, M. A. 2005. Evolution of plant defenses in metacommunities. Oral presentation at the annual meeting of the Ecological Society of America, Montreal, Canada.

Loeuille, N., Loreau, M. 2004. Evolutionary emergence of size structured food

webs. Poster, Gordon conference, Lewiston, Maine.
 Loeuille, N., Loreau, M. 2002. Nutrient enrichment in simple food chains: how does evolution affect top down controls? Oral presentation, Journées d'Ecologie Fonctionnelle, Nancy, France.
 Loeuille, N., Loreau, M. 2001. Considering the dynamics of inorganic nutrient may alter pairwise coevolution of species. Oral presentation, Journées d'Ecologie Fonctionnelle, Gourdon, France.
 Loeuille, N., Loreau, M. 2001. Consequences of nutrient recycling on the plant-herbivore coevolution. Linkecol workshop, Dundee, UK.

Teaching experience

2006-present	Lecturer	Theoretical Ecology (MS) Evolutionary Ecology (MS) Statistics (MS)
2001, 2002, 2003	TA	Biogeography (BS) Phylogeny (BS) Mimicry (BS) Experimental approach (BS) Primary and Secondary successions in ecosystems (BS) Species interactions (BS) Introduction to population dynamics modeling (BS) Biogeochemistry (BS) Article Discussions and synthesis (BS) Selective pressures (BS) Functional responses (MS) Multivariate Statistical methods (MS) Introduction to species interaction simulations (MS)
2003	TA	Introduction to modeling species interactions (BS)

All classes taught at the university of Paris VI, Paris, France.

Funding

2005	Travel grant from Diversitas for the Oaxaca meeting	\$800
2003	Graduate Student Travel Grant for the Gordon conference	\$1000

Service

Peer Reviews

- American Naturalist
- Ecology
- Ecology Letters
- Ecological Modeling
- Proceedings the National Academy of Sciences, USA

Theoretical Population Biology
Journal of Theoretical Biology
Evolutionary Applications

Languages:

French (maternal language)

English (Bilingual)

German (written, spoken)