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## List of Publications

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# 1 LISTE DES PUBLICATIONS

## 1.1 Articles dans des Revues Internationales

*Des liens hypertexte (en bleu) permettent d'accéder aux versions électroniques des publications.  
Les publications impliquant un.e doctorant.e que j'ai co-encadré.e sont précédées d'un astérisque.*

- 32 Zabala J., Lambin X., Soufflot J., Soufflot P., Chenesseau D. & **Millon A.** 2020. Proximate causes and fitness consequences of double brooding in female barn owls. *Oecologia*, **192** : 91-103.
- \*31 **Oedin M.**, Brescia F., Boissenin M., Vidal E., Cassan J.J., Hurlin J.C. & **Millon A.** 2019. Monitoring hunted species of cultural significance : estimates of trends, population sizes and harvesting rates of flying-fox (Pteropus sp.) in New Caledonia. *PLoS One* **14** : e0224466.
- \*30 **Millon A.**, **Danovaro C.**, Printemps T., Leroux A.B., Schlaich A.E., Villers A., Bourrioux J.-L., & Bretagnolle V. 2019. Disentangling the effects of environmental conditions on wintering and breeding grounds on age-specific survival rates in a trans-Saharan migratory raptor. *Journal of Avian Biology* **50** : e02233.
- 29 **Millon A.**, Lambin X., Devillard S. & Schaub M. 2019. Quantifying the contribution of immigration to population dynamics : a review of methods, evidence and perspectives in birds and mammals. *Biological Reviews* **94** : 2049-2067.
- 28 Hameau O. & **Millon A.** 2019 Assessing the effectiveness of bird rehabilitation : temporarily captive-reared Little Owls (*Athene noctua*) experience a similar recruitment rate as wild birds. *Journal of Ornithology* **160** : 581-585.
- 27 Chadoeuf J.§, **Millon A.**§, Bourrioux J.-L., Printemps T., van Hecke B., Lecoustre V. & Bretagnolle V. 2018. Modelling unbiased dispersal kernels over continuous space by accounting for spatial heterogeneity in marking and observation efforts. *Methods in Ecology and Evolution* **9** : 331-339. §*Contribution égale des auteurs*
- \*26 **Lieury N.**, Devillard S., Besnard A., Gimenez O., Hameau O., Ponchon C., Ravayrol A. & **Millon A.** 2017. Designing cost-effective capture-recapture surveys for improving the monitoring of survival in bird populations. *Biological Conservation* **214** : 233-247.
- \*25 **Lieury N.**, Drouet-Hoguet N., Ruetten S., Devillard S., Albaret M. & **Millon A.** 2017. Rural populations of the red fox *Vulpes vulpes* show little evidence of reproductive senescence. *Mammalian Biology* **87** : 146-151.
- \*24 **Hoy S.**, Petty S.J., **Millon A.**, Whitfield D.P., Marquiss M., Anderson D.I.K., Davison M. & Lambin X. 2017. Density-dependent increase in superpredation linked to food limitation in a recovering population of northern goshawks *Accipiter gentilis*. *Journal of Avian Biology* **48** : 1205-1215.
- 23 Duron Q., Bourguet E., De Meringo H., **Millon A.** & Vidal E. 2017. Invasive rats strengthen predation pressure on bird eggs in a South Pacific island rainforest. *Current Zoology* **63** : 583-590.
- \*22 **Hoy S.**, **Millon A.**, Petty S.J., Whitfield D.P. & Lambin X. 2016. Food availability and predation risk, rather than intrinsic attributes, are the main factors shaping the reproductive decisions of a long-lived predator. *Journal of Animal Ecology* **85** : 892-902.
- 21 Gérard A., Jourdan H., **Millon A.** & Vidal E. 2016. Knocking on heaven's door : are novel invaders necessarily facing naïve native species on islands?. *PLoS ONE* **11** : e0151545.
- 20\* **Lieury N.**, Besnard A., Ponchon C., Ravayrol A. & **Millon A.** 2016. Geographically isolated but demographically connected : immigration supports efficient conservation actions in the recovery of a range-margin population of the Bonelli's eagle in France. *Biological Conservation* **195** : 272-278.

- 19 Hardion L., Leriche A., Schwoertzig E. & **Millon A.** 2016. Species distribution 2.0 : An accurate time- and cost-effective method of prospection using street view imagery. *PLoS ONE* **11** : e0146899.
- \*18 **Lieury N.**, Gallardo M., Ponchon C., Besnard A. & **Millon A.** 2015. Relative contribution of local demography and immigration in the recovery of a geographically-isolated population of the endangered Egyptian vulture. *Biological Conservation* **191** : 349-356.
- 17 Santangeli A., Arroyo B.E., **Millon A.** & Bretagnolle V. 2015. Identifying effective actions to guide volunteer-based and nation-wide conservation efforts for a ground-nesting farmland bird. *Journal of Applied Ecology* **52** : 1082-1091.
- 16 Gérard A., Jourdan H., **Millon A.** & Vidal E. 2015. Anti-predator behaviour in a procellariid seabird : wedge-tailed shearwaters do not respond to the odour of introduced ship rats. *Austral Ecology* **40** : 775-781.
- \*15 **Lieury N.**, Ruelle S., Devillard S., Albaret M., Drouyer F., Baudoux B. & **Millon A.** 2015. Compensatory immigration challenges predator control : an experimental evidence-based approach improves management. *Journal of Wildlife Management* **79** : 425-434.
- \*14 **Hoy S.**, Petty S.J., **Millon A.**, Whitfield D.P., Marquiss M., Davison M. & Lambin X. 2014. Age and sex-selective predation as moderators of the overall impact of predation. *Journal of Animal Ecology* **84** : 692-701.
- 13 Gérard A., Jourdan H., Cugnière C., **Millon A.** & Vidal E. 2014. Is naïveté forever? Alien predator and aggressor recognition by two endemic island reptiles. *Naturwissenschaften* **101** : 921-927.
- 12 **Millon A.**, Petty S.J., Little B., Gimenez O., Cornulier T. & Lambin X. 2014. Dampening prey cycle overrides the impact of climate change on predator population dynamics : a long term demographic study on tawny owls. *Global Change Biology* **20** : 1770-1781.
- 11 Cornulier T., Yoccoz N.G., Bretagnolle V., Brommer J.E., Butet A., Ecke F., Elston D.A., Framstad E., Henttonen H., Hörnfeldt B., Huitu O., Imholt C., Ims R.A., Jacob J., Jedrzejska B., **Millon A.**, Petty S.J., Pietiäinen H., Tkadlec E., Zub K. & Lambin X. Europe-wide dampening of population cycles in keystone herbivores. 2013 *Science* **340** : 63-66.
- 10 Travis J.M.J., Palmer S.C.F., Coyne S., **Millon A.** & Lambin X. 2013. Evolution of predator dispersal in relation to spatio-temporal prey dynamics : how not to get stuck in the wrong place ! *PLoS ONE* **8** : e54453.
- 9 **Millon A.**, Petty S.J., Little B. & Lambin X. 2011. Natal conditions alter age-specific reproduction but not survival or senescence in a long-lived bird of prey. *Journal of Animal Ecology* **80** : 968-975.
- 8 **Millon A.**, Petty S.J. & Lambin X. 2010. Pulsed resources affect the timing of first breeding and lifetime reproductive success of tawny owls. *Journal of Animal Ecology* **79** : 426-435.
- 7 Ezard T., Bullock J., Dalglish H., **Millon A.**, Pelletier F., Ozgul A. & Koons D. 2010. Matrix models for a changeable world : the importance of transient dynamics in population management. *Journal of Applied Ecology* **47** : 515-523.
- 6 Villers A., **Millon A.**, Jiguet F., Lett J.-M., Attié C., Morales M.B. & Bretagnolle V. 2010. Tracking of wild and captive-bred Little Bustards *Tetrax tetrax* from western France : migration routes, wintering areas and implications for conservation. *Ibis* **152** : 254-261.
- 5 **Millon A.**, Nielsen J.T., Bretagnolle V. & Møller A.P. 2009. Predator-prey relationships in a changing environment : the case of the sparrowhawk and its avian prey community in a rural area. *Journal of Animal Ecology* **78** : 1086-1095.
- 4 **Millon A.** & Bretagnolle V. 2008. Population dynamics of predator experiencing cyclic prey variation : numerical responses, demographic parameters and growth rates. *Oikos* **117** : 1500-1510.

- 3 **Millon A.**, Arroyo B.E. & Bretagnolle V. 2008. Variation in breeding success for a specialist predator : empirical and experimental evidences under highly variable natural prey availability. *Journal of Zoology Lond.* **275** : 349-358.
- 2 **Millon A.** & Bretagnolle V. 2005. Nonlinear and population-specific brood sex ratios in relation to high variation in prey abundance. *Oikos* **108** : 535-543.
- 1 **Millon A.**, Bourrioux J.-L., Riols C. & Bretagnolle V. 2002. Comparative breeding biology of Hen Harrier and Montagu's Harrier : an eight-year study in north-eastern France. *Ibis* **144** : 94-105.

## 1.2 Conférences Invitées

- **Millon A.** 2018. Modelling the demography of animal populations in response to environmental variability. Séminaire Models in Ecology and Evolution, Montpellier,
- **Millon A.** 2018. Why bother with sampling schemes and statistics in Ecology? Séminaire méthodologique préalable à la Conférence for Young scientists – Conservation Sciences in the Mediterranean region à la Tour du Valat, Mai 2018.
- **Millon A.** 2016. Quantifier la contribution de l'immigration dans la dynamique des populations animales. Tour du Valat.
- **Millon A.** 2015. Accounting for immigration in the demography of wild animals. Aberdeen University, School of Biological Sciences, Ecology group.

## 1.3 Compte-Rendus de Conférence Publiés

- Duron Q., Bourguet E., Franquet R., Folger D., Teimpouene G., Wanguene M., Cassan J.-J., Rigault F., De Meingo H., **Millon, A.** & Vidal E. 2014. Rat control in New Caledonian "mainland island" rainforests : will the game be worth the candle? Proceedings of the Vertebrate Pest Conference, Hawaii. [DOI](#)

## 1.4 Publications dans des Revues non-Indexées

- Bourrioux J.-L., Printemps T., van Hecke B., Villers A., Chadoeuf J., Augiron S., Bretagnolle V., **Millon A.** & le réseau Busards. 2017. Bilan de dix ans de marquage des jeunes Busards cendrés *Circus pygargus* en France. *Ornithos* **24** :305-322.
- Mercier O., Bernard G., Bruhat L., Chassagnaud J., Delaye M., Grillas C., Laurent A., Laval C., Ledru C., Mistarz M., Montegu C., Schneider S., Thierry M., Vallat M., Gillet P., Lieury N., Leriche A. & **Millon A.** 2017. Etude pilote pour la mise en place d'un protocole de suivi du phyllodactyle d'Europe (*Euleptes europaea*) sur l'île de Port-Cros (Var, France). *Sci. Rep. Port-Cros natl. Park* **31** :1 Sci. Rep. Port-Cros natl. Park **31** :189-211. Article co-signé par l'ensemble de la promotion de master 2 "Expertise Ecologique & Gestion de la Biodiversité".

- Lieury N., Ruelle S., Albaret M., Drouyer F., Baudoux B., Letty J., Urbaniac C., Devillard S. & **Millon A.** 2016. Les prélèvements de renards limitent-ils leur densité? La compensation par immigration, un concept clé pour comprendre l’impact des prélèvements sur les populations de renards. *Faune Sauvage* 310 :
- Millon A. 1998. Première observation d’un Balbuzard pêcheur *Pandion haliaetus* mélanique. *Alauda* 62 : 1-7.

## 1.5 Communications dans des Conférences ou Congrès

- Oedin M., Brescia F., Vidal E., **Millon A.** 2020. Towards sustainable hunting of Pteropus species : assessing alternative hunting regulations by integrated demographic modelling. Conference of the Australasian Bat Society, New Zealand. **Winner of the prize ‘Best Research in Challenging Environments’.**
- Oedin M., Brescia F., Vidal E., Boissenin M., Cassan J.-J., **Millon A.** 2019. Monitoring two flying-fox hunted species : trends, population sizes and harvesting rates in New Caledonia, South Pacific. 18th International Bat Research Conference (18th IBRC). The Slate, Phuket, Thailand.
- Oedin M., Brescia F., Boissenin M., Cassan J.J., Vidal E. & **Millon A.** 2018 Monitoring the trend in harvested species of high cultural significance : the case of flying-foxes in New Caledonia. 18th Australasian Bat Society Conference. The Hawkesbury Institute for the Environment, Western Sydney University, Richmond, NSW.
- Chadoeuf J., **Millon A.**, Bourrioux J.-L., Printemps T., van Hecke B., Lecoustre V. & Bretagnolle V. 2017. Estimating Montagu’s Harrier dispersion kernel in a citizen science context. TIES-GRASPA Conference on Climate and Environment, University of Bergamo, Italy. Satellite meeting of the 61st World Statistics Congress.
- **Millon A.** 2016. On the importance of immigration in bird population dynamics. International Conference on Ecological Sciences, Société française d’écologie, Marseille.
- Zabala J., **Millon A.**, Petty S., Ponchon C., Printemps T., Soufflot J., Zuberogoitia I., Besnard A. & Lambin X. 2016. Trading reproduction for survival in the wild? Comparative analyses of raptor populations reveals no evidence for life-history tactics. International Conference on Ecological Sciences, Société française d’écologie, Marseille.
- Hardion L., Leriche A., Schwoertzig E. & **Millon A.** 2016. Species distribution 2.0 : An accurate time- and cost-effective method of prospection using street view imagery. International Conference on Ecological Sciences, Société française d’écologie, Marseille.
- Lieury N., Besnard A., Devillard S., Gimenez O., Ponchon C., Hameau O. & **Millon A.** 2016. Balancing economic costs and ability to detect change in survival for optimising capture-recapture surveys of long-lived birds. International Conference on Ecological Sciences, Société française d’écologie, Marseille.
- Palmas P., Bonnaud E., Oedin M., Gouyet R., **Millon A.**, Chaillon C., Rigault F., Cassan J.-J. & Vidal E. 2016. Feral cat population on large and inhabited island : efficiency of small scale control. International Conference on Ecological Sciences, Société française d’écologie, Marseille.
- Palmas P., Bonnaud E., Bourguet E., Debar L., Jourdan H., Lee M., De Méringo H., Mathivet M., **Millon A.**, Rigault F. & Vidal E. 2016. Feral cat predation at a biodiversity hotspot scale : the case of the New Caledonian Archipelago. International Conference on Ecological Sciences, Société française d’écologie, Marseille. Poster
- Lieury N., Devillard S., Besnard, A., Gimenez O., Hameau O, Ponchon C. & **Millon A.** 2015. Designing cost-effective capture-recapture surveys for improving monitoring of territorial birds. International Conference on Conservation Biology, Montpellier, France. Poster.

- **Millon A.** & Chadoeuf J. 2015. Modéliser la dispersion des animaux à large échelle spatiale en utilisant des données de sciences participatives. Rencontres CISSTATS-INRA, Avignon.
- Hoy S.R., Lambin X., Petty S.J., Whitfield D.P., Marquiss M. & **Millon A.** 2015. Increasing predation risk alters the trade-off between reproduction and survival for senescent individuals. British Ecological Society’s “Demography beyond the population” conference in Sheffield, UK.
- Hoy S.R., Lambin X., Whitfield D.P., Petty S.J., Davison M., Marquiss M. & **Millon A.** 2015. The negative impact of goshawk recolonization on tawny owl survival and reproductive strategies. International Ornithological Congress, Tokyo, Japan.
- Hoy S.R., **Millon A.**, Whitfield D.P., Davison M. Marquiss, M. Petty, S.J. & Lambin X. 2015. The return of a superpredator, the northern goshawk and its impact smaller raptors. Irish Raptor Study Group annual conference, Dublin, Ireland.
- Hoy S.R., **Millon A.**, Petty S.J., Whitfield D.P., Marquiss M. & Lambin X. 2014. The impact of Northern goshawk recolonization on tawny owls. Biological Sciences Research Symposium, University of Aberdeen, UK.
- Hoy S.R., Lambin X., Petty S.J., Whitfield D.P. Marquis, M. & **Millon, A.** 2014. The effect of a recolonizing superpredator on mesopredator survival and reproductive strategies under declining food availability. International Statistical Ecology Conference, Montpellier, France.
- Hoy S.R., Lambin X., Petty S.J., Whitfield D.P., Marquiss M. & **Millon A.** 2014. The impact of Northern goshawk colonisation on tawny owl survival and reproductive decisions. International Research School in Applied Ecology, Telemark University College, Bø, Norway.
- Lieury N., Ponchon C., Gallardo M. & **Millon A.** 2014. Integrated population modelling of endangered vultures. Student Conference on Conservation Science. Cambridge, UK. Communication orale primée.
- Duron Q., Bourguet E., Franquet R., Folger D., Teimpouene G., Wanguene M., Cassan J.-J., Rigault F., De Meringo H., **Millon, A.** & Vidal E. 2014. Rat control in New Caledonian “mainland island” rainforests : will the game be worth the candle ? Vertebrate Pest Conference, Hawaii. Communication orale.
- Lieury N., Ponchon C., Gallardo M. & **Millon A.** 2014. Integrated population modelling in conservation biology : how to improve our demographical knowledge of an endangered Mediterranean population of Egyptian vultures. Conservation Sciences in the Mediterranean Region Conference, Tour du Valat, Arles. Communication orale.
- Hoy S.R., **Millon A.**, Petty S.J., Whitfield D.P., Marquiss M. & Lambin X. 2014. Predator wars : the consequences of superpredators entering existing predator assemblages. Northern England Raptor Forum Conference, Newcastle, UK.
- Hoy S.R., Millon, A., Petty S.J., Whitfield D.P., Marquiss M. & Lambi, X. 2014. Predator wars : the consequences of superpredators entering existing predator assemblages. Scottish Raptor Study Group Conference, Perth, UK.
- Lieury N., Besnard, A., Ponchon C. & **Millon A.** 2014. Integrating immigration in the evaluation of conservation actions. Joint Meeting British Ecological Society-Société Française d’Ecologie. Lille, France. Communication orale.
- Lieury N., Ruetten S., Devillard S. & **Millon A.** 2013. How to measure and predict the impact of culling on red fox population dynamics ? International Union of Game Biologist Congress, Brussels – Belgique. Communication orale.
- Tatin L., Wolff A., Vincent-Martin N., Besnard A. & **Millon A.** 2013. Conservation of steppe birds in the Crau steppe (Mediterranean, France). Conservation of steppe and semi-desert ecosystems in Eurasia, Almaty, Kazakhstan. Poster.
- Hoy S.R., **Millon A.**, Petty S.J., Whitfield D.P., Marquiss M. & Lambin X. 2012. Raptor wars : the direct and indirect consequences of a superpredator entering a raptor community. British Ecological Society annual conference, Birmingham, UK.
- **Millon A.**, Cornulier T. & Bretagnolle V. 2012. Modélisation de l’impact des changements conjoints de l’agriculture et du climat sur les populations d’oiseaux. Colloque des Sciences de la Conservation, DoDo, Dijon, France. Communication orale.

- Le Gros C., Vidal E. & **Millon A.** 2012. Facteurs déterminant l’extinction et le statut de conservation de l’avifaune sur les îles de Polynésie française. Colloque des Sciences de la Conservation, DoDo, Dijon, France. Poster.
- **Millon A.**, Petty S.J., Lieury N. & Lambin X. 2010. Determinants of dispersal in a territorial bird species from a semi-isolated population : inbreeding risk does not matter. Colloque SOCIOR à Paimpont, France. Communication orale.
- **Millon A.**, Bretagnolle V, Leroux A.B.A & Clobert J. 2006. Do spatial and temporal variations in prey abundance predict predator dispersal patterns? Empirical evidences from the common vole-Montagu’s harrier system. International Society of Behavioral Ecology (ISBE) Tours, France. Communication orale.
- **Millon A.** & Bretagnolle V. 2005. Numerical responses of an avian predator to cyclic prey variations : a long-term study of the harrier-voile model. British Ecological Society Meeting, Hertfordshire, Grande-Bretagne. Communication orale.
- **Millon A.**, Inchausti P. & Bretagnolle V. 2004. Assessing the future of Montagu’s harrier in intensive-farming areas using nation-wide data. International Symposium on steppe-land birds, Lleida, Espagne. Communication orale.
- **Millon A.** & Bretagnolle V. 2004. Consequences of experimental food supplementation in a predator experiencing variable food supply. International Society of Behavioral Ecology Meeting (ISBE), Jyväskylä, Finlande. Communication orale.
- **Millon A.** & Bretagnolle V. 2004. Numerical response of a specialist predator to cyclic prey regim under temperate latitudes : a demographic approach. - Eastern Meeting of the Association for the Study of Animal Behaviour, Bristol, Grande-Bretagne. Communication orale.
- **Millon A.**, Leroux A.B.A. & Bretagnolle, V. 2003. Population-specific response of offspring sex ratio : the case of a specialist predator facing extreme variation in prey abundance - Eastern Meeting of the Association for the Study of Animal Behaviour, Leeds, Grande-Bretagne. Communication orale primée.
- **Millon A.**, Attié C., Houte S. & Bretagnolle V. 2003. Enjeux, priorités et stratégie de conservation de la Biodiversité en plaines cultivées - «le Réveil du Dodo», Journées de Conservation de la Biodiversité, Villeurbanne, France. Communication orale.
- **Millon A.** & Bretagnolle V. 2002. Ajustement de la sex-ratio et fluctuations des disponibilités alimentaires : le cas d’un prédateur spécialiste. Les Petits Pois Déridés, Montpellier, France. Communication orale.

## 1.6 Ateliers de Recherche

- Population under Pressure Imperial College of London, Grande-Bretagne 2008. A débouché sur la publication n°7.
- Ecologie Scientifique & Conservation de la Nature, Montpellier 2012, Aix-en-Provence 2013. Organisation avec A. Besnard de deux séminaires rassemblant gestionnaire de la Nature et chercheurs en écologie pour discuter méthodes de travail et synergies.

## 1.7 Livres

- Editeur associé à l’ouvrage : Rapaces Nicheurs de France. Distribution, Effectifs et Conservation. 2004. Thiollay, J.-M. and Bretagnolle, V. (Eds). Delachaux & Niestlé, Paris, 176 p.

## 1.8 Chapitres d'Ouvrages

- **Millon A.** & Bretagnolle V. Busard Saint-Martin *Circus cyaneus*. In Rapaces Nicheurs de France. Distribution, Effectifs et Conservation. 2004. Thiollay, J.-M. and Bretagnolle, V. (Eds). Delachaux & Niestlé, Paris, Pp 66-69.
- **Millon A.**, Bretagnolle V. & Leroux A.B.A. Busard cendré *Circus pygargus*. In Rapaces Nicheurs de France. Distribution, Effectifs et Conservation. 2004. Thiollay, J.-M. and Bretagnolle, V. (Eds). Delachaux & Niestlé, Paris, Pp 70-74.
- **Millon A.** & Bretagnolle V. Les populations nicheuses de rapaces en France : analyse des résultats de l'enquête Rapaces 2000. In Rapaces Nicheurs de France. Distribution, Effectifs et Conservation. 2004. Thiollay, J.-M. and Bretagnolle, V. (Eds). Delachaux & Niestlé, Paris, Pp 129-140. Chapitre de synthèse de l'ouvrage