

Florent Bled, Ph.D.

University of Georgia
Warnell School of Forestry and Natural Resources
180 E. Green St. - Athens, GA 30602

florent.bled@uga.edu

I am a quantitative ecologist engaged in the development of new and challenging integrative statistical methods. I incorporate theories developed in the framework of behavioral, population and landscape ecology to provide realistic and efficient tools and solutions for population management and conservation.

APPOINTMENTS

- 2018 – 2019 Postdoctoral Research Associate. Chandler Laboratory. University of Georgia.
2013 – 2018 Research Associate II. Carnivore Ecology Laboratory. Mississippi State University.
2010 – 2013 Post-doctoral fellowship. Cooperative Fish & Wildlife Research Unit. Colorado State University & USGS/Patuxent Wildlife Research Center.
2011 Post-doctoral fellowship. Animal Demography Unit. University of Cape Town & South African National Biodiversity Institute.

EDUCATION

- 2006 – 2010 **Ph.D. (Ecology, Biodiversity, Evolution)**, University of Toulouse III. Toulouse, France.
Title: Tests of hypotheses on the time-space dynamics of patchy populations: development and applications of site occupancy models. – Courses in scientific writing, scientific filmmaking, team management and projects development.
- 2005 – 2006 **Postgraduate degree (Biodiversity, Ecology, Evolution)**, University of Toulouse III. Toulouse, France. (*with honors*). – Courses in behavioral ecology, evolutionary ecology, Bayesian statistics, hierarchical modeling.
- 2004 – 2005 **Master of Science in Biology of organisms, populations and ecosystems**, University of Rennes 1. Rennes, France. (*with honors*). – Courses in ethology, ecology, evolution, statistics, scientific communication.
- 2003 – 2004 **Bachelor of Science Biology of organisms and populations**, University of Rennes 1. Rennes, France. (*with honors*). – Courses in population dynamics, ecology, biology, physiology.
- 2000 – 2003 **Associate Degree in Life and Earth Sciences**, University of Nantes. Nantes, France. (*with honors*)

SCIENTIFIC PRODUCTS**Publications**

Bled F., & Belant J.L. (*in press*) demetR: a Bayesian population simulation web-application for harvest management. *Ursus*.

Bled F., Alatawi A.S., & Belant J.L. (*in press*) Anthropogenic and environmental effects on avian species richness and occurrence in Aldesa Valley, Saudi Arabia. *Acta Ornithologica*.

Alatawi A.S., Bled F., & Belant J.L. (*in press*) An Inventory of Terrestrial Vertebrates in Aldesa Valley, Saudi Arabia. *Checklist*.

Molinari-Jobin A., Kéry M., Marboutin E., Marucco F., Zimmermann F., Molinari P., Frick H., Wölfel S., Bled F., Breitenmoser-Würsten C., Kos I., Wölfel M., Černe R., Müller O., & Breitenmoser U. (2018) Mapping range dynamics from opportunistic data: spatio-temporal modelling of the lynx distribution in the Alps over 20 years. *Animal Conservation*. 21, 168-180.

Bled F., Belant J.L., Van Daele L., Svoboda N., Gustine D., Hilderbrand G., & Barnes V.G. Jr. (2017) Using multiple data types and integrated population models to improve our knowledge of apex predator population dynamics. *Ecology and Evolution*. 7(22), 9531–9543.

Belant J.L., Bled F., Mwampeta S.B., Mkasanga I.J., Wilton C.W., & Fyumagwa R. (2017) Temporal and spatial variation of broadcasted vocalizations does not reduce lion *Panthera leo* habituation. *Wildlife Biology*. doi: 10.2981/wlb.00287

Belant J.L., Bled F., Wilton C.M., Fyumagwa R., Mwampeta S.B., & Beyer D.E. Jr. (2016). Estimating Lion Abundance using N-mixture Models for Social Species. *Scientific Reports*. 6, 35920.

Bled F., Summers S., Martell D., Petroelje T.R., Beyer D.E. Jr., & Belant J.L. (2015). Effects of Prey Presence and Scale on Bobcat Resource Selection during Winter. *PLoS ONE*. 10(11), e0143347.W

Bled F. (2015). Re-evaluation of Eastern Waterfowl Survey. *CWS Report*.

Martin J., Edwards H.H., Bled F., Fannesbeck C., Dupuis J., Gardner B., Koslovsky S., Aven A., Ward-Geiger L., Carmichael R., Fagan D., Ross M., & Reinert T. (2014). Estimating upper bounds for occupancy and number of manatees in areas potentially affected by oil from the deepwater horizon oil spill. *PLoS ONE*. 9(3), e91683.

Bled F., Nichols J.D., & Altwegg R. (2013). Dynamic occupancy models for analyzing species' range dynamics across large geographic scales. *Ecology and Evolution*. 3(15), 4896-4909.

Bled F., Sauer J., Pardieck K., Doherty P., & Royle J.A. (2013). Modeling Trends from North American Breeding Bird Survey Data: A Spatially Explicit Approach. *PLoS ONE*. 8(12), e81867.

Bled F., Sauer J.R., Pardieck K.L., Doherty P., Ziolkowski D., & Royle J.A. (2012). Assessing the effects of the Deep Water Horizon oilspill on bird population trends in the Gulf of Mexico using the North American Breeding Bird Survey approach. *USGS Internal Report*. 10p.

Bled F., Young K., & Royle J.A. (2011). Estimation of scat abundance of Horned Lizards population using a repeated sampling design. *URS report*.

Bled F., Royle J.A., & Cam E. (2011). Assessing hypotheses about nesting site occupancy dynamics. *Ecology*. 92(4), 938-951.

Bled F., Royle J.A., & Cam E. (2011). Hierarchical modeling of an invasive spread: the Eurasian Collared-Dove *Streptopelia decaocto* in the United States. *Ecological Applications*. 21(1), 290-302.

Bled F., Joachim J., & Dupuis J.A. (2011). Impact of climatic variations on bird species occupancy rate in a southern European forest. *Biodiversity and Conservation*. 20(6), 1203-1224.

Dupuis J.A., Bled F., & Joachim J. (2011). Estimating the occupancy rate of spatially rare or hard to detect species: a conditional approach. *Biometrics*. 67(1), 290-298.

Bled F. (2010). Tests of hypotheses on the time-space dynamics of patchy populations: development and applications of site occupancy models (Doctoral dissertation, Université de Toulouse, Université Toulouse III-Paul Sabatier).

Bled F. (2006). Sélection de l'habitat de reproduction au sein de la falaise chez un oiseau marin longévif: *Rissa tridactyla*. Master thesis in Biology. Université Paul Sabatier. Toulouse, France. 65p.

Submitted manuscripts under review

Belant J.L., Bled F., Wilton C.M., Mkasanga I.J., Mwampeta S.B., Mwakilema W., Fyumagwa R. (*in review*) Lion Abundance in Serengeti is Greater than Expected.

Belant J.L., Bled F., Mkasanga I.J., Wilton C.M., Mwampeta S.B., Beyer D.E. Jr., Mwakilema W., Fyumagwa R. (*in review*) Track surveys do not provide accurate lion density estimates in Serengeti.

Books

Bled F. (*Work in progress*) Prelude in R: A "short" story of data, graphs, functions and bad puns. 156p.

Bled F. & Tegt J. (2016) Suzie and Pops tell the story of Wild Pigs invasion through North America. Mississippi State University Extension Service. Mississippi State, USA. 28p.

Websites

pop-eco.shinyapps.io/demetR : a Bayesian population simulation web-application for harvest management

PreludeinR.com (*in deployment phase*): a comprehensive introduction to the statistical programming language R, targeted toward wildlife students, professionals and managers

Grants

Declining Muskrat Populations: A Regional Assessment of Factors Associated with Mortality (in review); **amount:** \$2,100,000; **role:** co-PI.

Resource use and distribution of Roosevelt elk and Kodiak brown bears on Afognak and Raspberry Islands, Alaska (2017); **amount:** \$946,000; **sponsor:** Alaska Department of Fish and Game; **role:** co-PI.

Estimating lion abundance and occupancy in the Serengeti National Park (2016); **amount:** \$700,000; **sponsor:** Safari Club International Foundation; **role:** co-PI.

Professional presentations

Bled F., & Belant J.L. (2018) demetR: a Bayesian population simulation web-application for harvest management. *In: The Wildlife Society 2018 Conference*. Cleveland, OH. October 7-11, 2018.

Bled F., Croose L., Fowler N.L., Beyer D.E., & Belant J.L. (2018) Spatio-temporal dynamics of American marten and fisher in Michigan's upper peninsula. *In: The Wildlife Society 2018 Conference*. Cleveland, OH. October 7-11, 2018.

Chandler R., Bled F., Cherry M.J., Conner L.M., Garrison E., Abernathy H., Ellsworth H., Stiffler L., Crawford D., Kelly B., & Miller K.V. (2018) Animal movement and mortality risk. *In: The Wildlife Society 2018 Conference*. Cleveland, OH. October 7-11, 2018.

Hiller T.L., Bled F., Tyre A.J., & Lanka R. (2018) What data are sufficient for making informed decisions to manage bobcats? *In: The Wildlife Society 2018 Conference*. Cleveland, OH. October 7-11, 2018.

Tyre A.J., Bled F., & Hiller T.L. (2018) Harvest Data, Population Models, and Furbearer Management: What is Sufficient for Making Decisions? *In: 2018 Midwest Furbearer Workshop*. Medora, ND. May 14-17, 2018.

Bled F. (2016) All of time and space... Toward an integrated and integrative approach to ecology. *In: The Wildlife Society 23rd Annual Conference*. Raleigh, North Carolina. October 15, 2016.

Altwegg R., Nichols J., Bled F., Peron G., & Broms K. (2016) Species range dynamics when detection is not perfect. *In: 2016 International Statistical Ecology Conference*. Seattle, Washington, USA. June 28 – July 1, 2016. DATE needed for conference presentations.

Bled F., Belant J.L., Van Daele L., Svoboda N., Gustine D., & Hilderbrand G. (2016) Multiple datatypes and integrated population models: how to improve our knowledge of bears and other apex predators large carnivore population dynamics. *In: 24th International Conference on Bear Research and Management*. Anchorage, Alaska, USA.

Belant J.L., Bled F., Fyumagwa R., Wilton C.M., & Mwampeta S. (2015) Evaluating techniques to estimate lion abundance. *In: African Wildlife Consultative Forum*. Bosveld, South Africa.

Belant J.L., Fyumagwa R., Bled F., Wilton C.M., & Mwampeta S. (2015) Evaluating techniques to estimate lion abundance. *In: 10th Tanzania Wildlife Research Institute Conference*. Arusha, Tanzania.

Bled F., Sauer J.R., Pardieck K.L., Doherty P., & Royle J.A. (2014). Modeling trends from North American Breeding Bird Survey data: A spatially explicit approach. *In: AOU COS SCO 2014 Joint Meeting*. Estes Park, Colorado (USA). September 23-28, 2014.

Summers S., Bled F., Belant J.L., Martell D., Petroelje T.R., & Beyer D. E. Jr. (2014). Scale-dependent resource selection by bobcats (*Lynx rufus*). In: *MSU Undergraduate Research Symposium 2014*. Mississippi State, Mississippi (USA), April 3, 2014.

Altwegg R., Bled F., Broms K., & Nichols J. (2013). Occupancy models for large-scale biodiversity data. In: *EURING 2013 Analytical Meeting & Workshop website*. Athens, Georgia (USA), April 28-May 4, 2013.

Loftie-Eaton M., Altwegg R. & Bled F. (2012). Modelling avian range changes over the two decades between the first and second bird atlas projects in South Africa. In: *13th Pan-African Ornithological Congress*. Arusha, Tanzania. October 14-21, 2012.

Bled F., Sauer J.R., Pardieck K.L., Doherty P., & Royle J.A. (2011). Modeling trends from North American Breeding Bird Survey data: A spatially explicit approach. In: *The Wildlife Society 18th Annual Conference*. Waikoloa, Hawaii. November 7, 2011.

Bled F., Cam E. & Royle J.A. (2008). Sélection de l'habitat chez un oiseau marin longévif : modélisation de la sélection du site de reproduction au sein d'une falaise chez la mouette tridactyle (*Rissa tridactyla*). In : *XXX^{ème} Réunion Annuelle Le Petit Pois Dérivé*. Rennes, France. August 25-28, 2008.

Prinzing A. & Bled F. (2005). Where do plant phenotypes respond to climate change? In: *British Ecological Society Annual Meeting*. University of Hertfordshire, Hatfield, UK. September 5-7, 2005.

Awards

2017 College of Forest Resources and Forest and Wildlife Research Center Research Support Award Recipient

International Bear Association 2016 People's Choice – Poster Award: Bled, F., Belant, J. L., Van Daele, L., Svoboda, N., David Gustine, D., & Hilderbrand, G. (2016) Multiple datatypes and integrated population models: how to improve our knowledge of bears and other apex predators' population dynamics. In: *24th International Conference on Bear Research and Management*. Anchorage, Alaska, USA.