

DIANE LE BOUILLE

◇ Curriculum Vitae ◇

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Dept. of Ecology and Evolutionary Biology
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EDUCATION

Ph.D. Student 2014 - Present	University of Tennessee Knoxville, USA
M.Sc. - Ecology, Biodiversity, Evolution - Specialization in Conservation 2011 - 2012	University P. and M. Curie Paris, France
M.Sc. - Ecology 2009 - 2010	University of Aberdeen Aberdeen, Scotland
B.Sc. - Organismal Biology 2008 - 2009	University of Bordeaux 1 Bordeaux, France
French Prep. School - Mathematics, Physics, Chemistry, Geology and Biology 2006 - 2008	Montaigne Bordeaux, France

SKILLS

Computer Languages	Python, R, C/C++, Matlab, VBA
Theoretical knowledge	Ecology, Evolution, Conservation & Restoration Ecology Macro Economics, Natural Resources Economics Mathematical Optimization, Spatial Analysis, Statistics
Field-Based skills	Fieldwork, Handling/Marking of Vertebrates, Plant and Animal Systematics
Ecological software & Tools	GIS tools (ArcGIS) and GPS tracking, Network sciences (Pajek, Netdraw) Data bases (Access, phpMySQL), Optimization (Maple, GAMS)

RESEARCH EXPERIENCE

Costs of Protected Areas in the U.S. <i>PhD Thesis - Paul ARMSWORTH</i>	2014 - 2020 University of Tennessee, Knoxville
· Describing and explaining the spatial and temporal variations in conservation costs and funding for protected areas across the U.S.	
Behavioural Shifts and Human Avoidance in Wolves <i>Master Thesis 2 - Luigi BOITANI, Paolo CIUCCI</i>	2012 - 7 months University of Rome, Italy
· Activity budgets and movement patterns of GPS-collared wolves in the Abruzzo, Lazio and Molise National Park (central Italy) in relation to human activity in the park	

Road Kill Risk Assessment and Snake Conservation

2011 - 6 months

Master Thesis 1 - Jean CLOBERT, Xavier BONNET

CNRS Labs of Moulis (Eco-Ex) and Chizã (CEBC), France

- Demographic study of snake populations in France by mark-capture-recapture, assessing population movements and deriving conservation measure - seasonal road closures

Metapopulation Dynamics and Iterated Dispersal in Water Voles

2010 - 3 months

Graduate Research Project - Xavier LAMBIN

University of Aberdeen, Scotland

- Characterisation of Highland water vole dispersal network within and among metapopulations using kinship analyses and network sciences

Sex-biased Dispersal During Range Advance

2010 - 6 weeks

Graduate Research Project - Justin TRAVIS

University of Aberdeen, Scotland

- Modelling the erosion of sex-biased dispersal at the advancing range edge for an invasive species - theoretical modelling, Australian Cane Toads used as case study

Acid Rains and Prairie Diversity in France

2009 - 3 months

Undergraduate Thesis - Didier ALARD, Emmanuel CORCKET

University of Bordeaux 1, France

- Impacts of nitrogen atmospheric pollution on acid prairie biodiversity (S-W of France) in term of soil seed bank composition and germination, growth and survival rates

PUBLICATIONS

Armsworth P., Benefield A., Dilkina B., Fovargue R., Jackson H., **Le Bouille D.** and Nolte C. (2019) *Allocating resources for land protection using continuous optimization: biodiversity conservation in the United States* Ecological Applications

MANUSCRIPTS IN REVIEW

1. **Le Bouille D.**, Armsworth P. and Fargione J. (2019) *Spatio-temporal variation in the costs of managing protected areas*. Biological Conservation
2. Pinnschmidt A., Hoogstra M., Fovargue R., **Le Bouille D.**, Fisher M., Harris J., Armsworth P. (2020) *Protecting land leads to increased philanthropic giving to conservation*. Ecological Economics

MANUSCRIPTS IN PREPARATION - PH.D. THESIS

1. **Le Bouille D.**, Armsworth P. (2020) *Largest dataset of actual, spatially explicit and parcel-level costs for protected area acquisition in the U.S.* Journal of Applied Ecology
2. **Le Bouille D.**, Armsworth P. (2020) *The price of buying land for conservation in the U.S.: accurate acquisition cost prediction for optimal reserve planning*. Conservation letters
3. **Le Bouille D.**, Armsworth P. (2020) *Predicting bargain sale occurrence and size in land transactions for conservation*. Biological Conservation

BOOK CHAPTER

Lambin X., **Le Bouille D.**, Oliver M.K., Sutherland C., Tedesco E. and Douglas A. (2012) *High connectivity despite high fragmentation: iterated dispersal in a vertebrate metapopulation*. In: Dispersal Ecology and Evolution (chap. 32) Clobert et al. Editors, Oxford University Press.

AWARDS AND FELLOWSHIPS

2019 - NIMBioS Graduate Awards - Competitive, Project-Based Award	\$2,500
2015 to 2019 - UT Competitive Yearly Research Awards and Project-based Travel Grants	\$5,000
2015 to 2019 - Chancellor Funds - Based on Application and Research Proposal Merit	\$25,000
2017 to 2018 - NIMBioS Graduate Research Assistant Fellowship	\$50,000
2012 - Six-Month Scholarship for MSc Research Project and Thesis	Equiv. \$3,300
2010 to 2012 - French Governmental Grant - Merit Based, Gov. Sponsorship for MSc	Equiv. \$10,000
2009 to 2010 - Erasmus Waivers and Scholarship to Study Abroad - U. of Aberdeen	Equiv. \$31,500

CONFERENCES AND PRESENTATIONS

- ESA 2019 - Le Bouille D., Armsworth P. and Fargione J., What drives the cost of U.S. conservation?
- NACCB 2018 - Le Bouille D., Armsworth P. and Fargione J., Accurate acquisition cost prediction for optimal reserve planning
- ESA 2016 - Le Bouille D. and Armsworth P., The real cost of acquiring lands for conservation
- NACCB 2016 - Le Bouille D. and Armsworth P., Investigating the dynamic patterns of management costs in protected areas
- ESA 2015 - Le Bouille D., Armsworth P. and Iacona G., The time path of investments for the management of protected areas

TEACHING EXPERIENCE

TEACHING ASSISTANT - UTK

Mathematical Models in Biology - EEB/MATH 406

GIS and Niche Modeling - EEB/GEO 550

Research Ethics - PHILO/EEB 504

Organismal and Ecological Biology, *Hons.* - BIO 158

Cell Biology - BIO 140

EXTRA TRAINING - WORKSHOPS

Science Communication and Policy - ESA (Spring 2020)

Associate Level of CIRTl certification (Summer 2017)

ORI Research Ethics Certification (Spring 2017)

Best Practice in STEM Teaching (Fall 2016)

OTHER APPOINTMENTS

IT Assistant - UTK

Departmental Computer Maintenance

Workshop Facilitation - NIMBioS

NIMBioS International Working Groups

Mentoring

Undergraduate Mentoring Program

Women in STEM Mentoring Group

OUTREACH

EKEE - University of Tennessee

2015-2019 - Graduate Outreach Committee

Head of Tabling Events

Outreach activities in zoos, farmers' market, fairs

KidsU - University of Tennessee

Summer 2019 - Learning Summer Camp

Class Design, Teaching, Field Trips - Age 9-12

UT's Darwin Day - University of Tennessee

2018 - Science Communication Event

Advertisement and material creation

Design of activities, Open seminars organizer

Naturalist Organization Timarcha - UPMC, Paris

2011-2012 Graduate Organization, UPMC

Board Member, Event Leader

PROFESSIONAL ACTIVITIES AND SERVICES

Manuscript Review	for Conservation Letters
Departmental Services	Departmental Senator - UTK Graduate Student Senate
Professional Membership	Ecological Society of America (ESA), Society for Conservation Biology (SCB), French Society for Ecology and Evolution (SFE ²)

LANGUAGES

English	French	Spanish
Fluent	Native	Working Proficiency