

# DIANE LE BOUILLE

◇ Curriculum Vitae ◇

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Dept. of Ecology and Evolutionary Biology  
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## EDUCATION

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

## SKILLS

<b>Computer Languages</b>	Python, R, C/C++, Matlab, VBA
<b>Theoretical knowledge</b>	Ecology, Evolution, Conservation & Restoration Ecology Macro Economics, Natural Resources Economics Mathematical Optimization, Spatial Analysis, Statistics
<b>Field-Based skills</b>	Fieldwork, Handling/Marking of Vertebrates, Plant and Animal Systematics
<b>Ecological software &amp; Tools</b>	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.** 2014 - Present  
*PhD Thesis - Paul ARMSWORTH* University of Tennessee, Knoxville

- Dynamic patterns of management costs on protected areas / Describing and explaining the landscape of conservation costs and funding across the US

**Behavioural Shifts and Human Avoidance in Wolves** 2012 - 7 months  
*Master Thesis 2 - Luigi BOITANI, Paolo CIUCCI* 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

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### MANUSCRIPTS IN REVIEW

1. Armsworth P., Benefield A., Dilkina B., Fovargue R., Jackson H., **Le Bouille D.** and Nolte C. (2019) *Prioritizing land protection over large spatial scales: an application to biodiversity conservation in the United States*. Ecological Applications

### MANUSCRIPTS IN PREPARATION - PH.D. THESIS

1. **Le Bouille D.**, Armsworth P. and Fargione J. (2019) *Spatio-temporal variation in the costs of managing protected areas*. Biological Conservation
2. **Le Bouille D.**, Armsworth P. (2019) *Largest Dataset of Actual, Spatially Explicit and Parcel-Level Costs for Protected Area Acquisition in the U.S.* Journal TBD
3. **Le Bouille D.**, Armsworth P. (2020) *The Price of Buying Land for Conservation in the U.S.* Journal TBD
4. **Le Bouille D.**, Armsworth P. and Fargione J. (2020) *Accurate Acquisition Cost Prediction for Optimal Reserve Planning in the Conterminous U.S.* Journal TBD
5. **Le Bouille D.**, Armsworth P. (2020) *Predicting Bargain Sale Occurrence and Size in Land Transactions for Conservation*. Journal TBD

### 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

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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

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- 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

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### 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

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

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### 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

## LANGUAGES

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**English**  
 Fluent

**French**  
 Native

**Spanish**  
 Working Proficiency