

Diane Le Bouille

Environmental Sciences, Data GIS Specialist

✓ Waco, TX (USA)

+1 (865) 333-4737

www.dlebouille.com

diane.lebouille@gmail.com

Hard Skills —

Programming Python, R, C/C++, Matlab

GIS

ESRI products, Arcpy Spatial stats and optimization

Database Access, MySQL

Misc.

HTML, CSS, LaTeX Git/GitHub

(Strenuous) fieldwork experience Handling/Marking vertebrates Plant and animal systematics

Soft Skills -

Strong organizational capabilities Working with diverse audiences Effective team and com. skills

Languages

English

French

Spanish



About me

My background is in conservation ecology and my research focuses on conservation planning and optimization, using mathematical modeling to develop resource allocation tools and meaningfully support on-the-ground decision making around optimal reserve design. Using my technical strengths as a mean to develop practical solutions to complex problems is the focus of my work.

Education and Selected Research Experience

2022 - 2024 **Postdoctoral Researcher II**

Texas Tech University

- ▶ Developing species distribution models for Texas stream species
- ▶ Designing hierarchical spatial prioritization (Bayesian stats)
- ▶ Coordinating datasets and research products with stakeholders
- ▶ Presenting results at professional meetings and agency workgroups

2020 - 2022 **Postdoctoral Researcher I** **Baylor University**

- ▶ Designed and conducted spatial topology studies of TX streams
- ▶ Worked on water withdrawal laws and policy, re:climate change
- ▶ Led 2 graduates students to conduct extensive literature review and create a large dataset of flow metrics
- Collaborated closely with federal and state organisations

2014 - 2020 Ph.D. Student

University of Tennessee

- ▶ Fitted complex mixed models, with spatio-temporal structures
- Designed and conducted spatial prioritization analyses
- ▶ Analysed of a dataset of 36,000+ land transactions
- ▶ Presented primary results at major conferences (4k+ attendees)
- ▶ Worked closely with land trusts, managers and other practitioners

2011 - 2012 M.Sc. - Ecology, Biodiversity, Conservation University P. and M. Curie

- ▶ Learned and used advanced spatial and network science stats
- Designed and implemented relational databases
- Worked in strenuous field settings, tracking GPS collars
- ▶ Participated in toxicology (food safety protocols) and pollution (soil sampling) studies

Selected Publications

Pinnschmidt A., Hoogstra M., Fovarque R., Le Bouille D., Fisher M., Harris J., Armsworth P. (2021) Protecting land leads to increased philanthropic giving to conservation. **Ecological Economics**

Le Bouille D., Armsworth P. and Fargione J. (2022) Spatio-temporal variation in the costs of managing protected areas. Conservation Science and Practice

Le Bouille D. and Armsworth P. (2022) The cost of buying land for protected areas in the united states. Biological Conservation

Hyman A., Le Bouille D., Zhu G. and Armsworth P. (2022) Disagreements about how to value the future among conservationists lead to conflicting recommendations about where to protect today. Biological Conservation

Le Bouille D. and McManamay R. (2023) Analysis of flow standards and recommendations in Texas rivers

Leadership and Teamwork Experience

Adjunct Lecturer | University of Tennessee, Knoxville

Outreach Committee | UTK Graduate Association

2022

• Landscape Ecology, Models in Biology, Writing Ecological Science

2020 - 2022

Vice-President | Baylor Postdoc Association, 100+ members Planned and led all social events, budget planning, developed the website

Integrated the cross-departmental updating of the current postdoc list

• Head of tabling events, outreach activities (zoos, farmers' market, fairs, etc.)

Updated: March 25, 2022