

Diane Le Bouille

Environmental Sciences, Data GIS Specialist

✓ Waco, TX (USA)

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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 - current 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 at professional meetings and agency workgroups

2020 - 2022 **Postdoctoral Researcher I**

Baylor University

- Designed and conducted spatial topology studies in R and ArcGIS Worked on water withdrawal laws and policy with State authorities
- ▶ Led 2 graduates students on extensive literature review to create a dataset of 25,000+ entries on Texas stream flows

2014 - 2020 Ph.D. Student

University of Tennessee

- ▶ Fitted complex mixed models in R, with spatio-temporal structures
- ▶ Designed and conducted spatial prioritization analyses in Python
- ▶ 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 used relational databases with Access and MySQL
- ▶ Worked in strenuous field settings, learned GPS collars tracking
- ▶ Participated in toxicology (food safety protocols) and pollution (soil sampling) studies

Selected Publications

Pinnschmidt A., Hoogstra M., Fovargue 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, Outreach and Team Experience

Adjunct Lecturer | University of Tennessee, Knoxville

2022

Taught: Landscape Ecology, Models in Biology, Writing Ecological Science

Vice-President | **Baylor Postdoc Association**, 100+ members

• Planned and led all social events + budget planning, developed the website

Implemented the cross-departmental updating of the current postdoc list

Outreach Committee | UTK Graduate Association

2015 - 2019

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