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 - 2024

Texas Tech University

Postdoctoral Researcher II
▸ 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

Baylor University

Postdoctoral Researcher I
▸ 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

University of Tennessee

Ph.D. Student
▸ 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

University P. and M. Curie

M.Sc. - Ecology, Biodiversity, Conservation
▸ 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   2020 - 2022
⚬ 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**   2011 - 2012
⚬ Head of tabling events, outreach activities (zoos, farmers' market, fairs, etc.)