pamtorch: an ecoystem for analysis of passive acoustic monitoring data in R

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UNDER CONSTRUCTION

This is the updated repository. An update will be released in early September The final version will be posted Sept 30. # Executive Summary

The interconnected crises of biodiversity collapse, climate change, and systemic health decline are a conservation challenge. Conservation technology like camera traps, drones, eDNA, and passive acoustic monitoring are critical tools for conservationists to monitor the impacts of conservation interventions on biodiversity. The R programming environment is widely used by ecologists and conservationists.

Existing solutions in R include GibbonNetR Clink and Ahmad (2025)

Signatories

Project team

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Contributors

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Consulted

NA

The Problem

Problem

Who it impacts

Why it is a problem

What will solving the problem enable

Summary of existing work

The proposal

Overview

Detail

Minimum Viable Product

Architecture

Assumptions

External dependencies

Project plan

Start-up phase

Technical delivery

Other aspects

Budget & funding plan

Success

Definition of done

Measuring success

Future work

Clink, Dena Jane, and Abdul Hamid Ahmad. 2025. "gibbonNetR: An r Package for the Use of Convolutional Neural Networks for Automated Detection of Acoustic Data." *Journal of*

Open Source Software 10 (110): 7250.