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 major conservation challenge. Conservation technology like camera traps, drones, eDNA, and passive acoustic monitoring are critical tools for addressing this challange as they help conservationists 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.