# DEEP LEARNING AS A TOOL TO AUTOMATE WILDLIFE IDENTIFICATION

## PROJECT DESCRIPTION

The goal of this project is to teach computers to identify birds from audio recordings. The student will work with a computing science and biology professor to clip audio recordings for individual species. Use these clips to run various experiments via Convolutional Neural Networks to assess the best ways to automatically identify animal sounds. Students will learn how to integrate CNN tools with fuzzy logic based on expert knowledge about species - habitat relationships in order to maximize classification accuracy.

## FACULTY-DEPARTMENT

Biological Sciences

## DESIRED FIELD OF (STUDENT) STUDY

Computing Science

## INTERNSHIP LOCATION

North Campus

## NUMBER OF INTERNSHIP POSITIONS

1

## INTERNSHIP START DATE

July 4

## INTERNSHIP END DATE

October 4

## ARE THE DATES FLEXIBLE?

Yes.

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