

Math & CS Colloquium Series

The Chickadee Project Wants You!

NMU Biology:

Alec Lindsay PhD, Professor

NMU Math and CS:

Jonathon Lefler, CS Student

Nick Potyok, Cyber Defense Student

Wednesday September 11, 4-4:50, JXJ 1315

- Students and faculty are encouraged to attend
 - Refreshments will be served
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Abstract

In the fall of 2016, the Lindsay lab group (Biology) developed an ongoing research program – the JP Chickadee Project – that focuses on the ecology and behavior of a remarkable species of dinosaur, the black-capped chickadee (*Poecile atricapillus*). We capture chickadees in a local woodlot, collect measurements from them, and mark them with unique combinations of color bands, including one band with an embedded RFID tag. The CS team has been working to integrate custom data collection instrumentation (RFID-readers, perch-scales, cameras, etc.) into a Raspberry Pi backbone, and then connect data via a LoRaWan network in the field to a web-based interface. The technological developments will be a first of its kind applied to field conditions, providing both researchers and public immediate access to behavioral data of wild birds. This talk outlines the project, and will inform students how they can get involved.

This is an excellent opportunity to join an active group of students engaged in collaborative but individualized research.

