

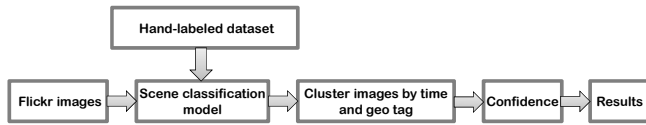


# Learning to Identify Local Flora with Human Feedback

Stefan Lee, David Crandall

School of Informatics and Computing, Indiana University, Bloomington, IN

## 1. Overview



## 2. Method

**Confidence score** is measuring the ratio of log likelihood of being positive or not at each time and location.

$$P(scene | s^+, \vec{s}^+) = \frac{P(s^+, \vec{s}^+ | scene) P(scene)}{P(s^+, \vec{s}^+)}$$
$$= \frac{\binom{m+n}{n} p^m (1-p)^n P(scene)}{P(s^+, \vec{s}^+)}$$

$$\frac{P(scene | s^+, \vec{s}^+)}{P(scene | s^-, \vec{s}^-)} = \frac{P(scene)}{P(scene)} \left( \frac{p}{q} \right)^m \left( \frac{1-p}{1-q} \right)^n$$

At a place and time of interest,  
 $m$ : the number of photos contains evidence of scene (event  $s^+$ )  
 $n$ : the number of photos without evidence of scene (event  $s^-$ )  
 $p$ :  $P(s | scene)$   
 $q$ :  $P(s^- | scene)$   
 $P(scene)$ : the prior probability of snow.

## 1. Overview

## 1. Overview

## 1. Overview

## 1. Overview

## 5. Ongoing and future work