TRAINING IN BIOACOUSTICS, 14 – 21 MAR 2019, IISER TIRUPATI

Schedule overview

Recording-related sessions

Analysis-focused sessions

Day	Date	Early Morning	Morning	Afternoon	Evening (6 PM)
1	14 Mar (Thu)		Participants' presentations	Introductions, training overview; Microphones Equipment distribution & orientation; SNR in recording (distance to target); prep for morning recording	
2	15 Mar (Fri)	Recording	Intro to digital audio Intro to spectrograms Digital audio distortion (clipping, aliasing)	Review recordings Spectrogram parameters 1 Raven measurements	
3	16 Mar (Sat)	Recording	Spectrogram parameters 2 Decibel measurements Customizing Raven	Review recordings Band-Limited Energy Detector Intro to the Swift autonomous recorder	(Optional) Walk around campus to record insects, frogs
4	17 Mar (Sun)	(Optional) Recording	Quantifying sound similarity 1 Spectrogram correlation Feature-based comparisons	Editing/uploading recordings to eBird/ML Raven 2.0 template detector 1	(Optional) Walk around campus to record insects, frogs
5	18 Mar (Mon)	(Optional) Recording	Raven 2.0 template detector 2 Media archives in science	Hands-on work & consultation eBird for education & research	
6	19 Mar (Tue)		Review, questions, small groups	Review, questions, small groups	Introduction from Wildlife Acoustics. Set up SM4 acoustic & ultrasonic detectors, also undertake a night time bat walk with state-of-the-art full spectrum bat detectors.
7	20 Mar (Wed)	(Optional) Recording/pick up detectors left overnight	Brief recap of the theory behind sound recording (ultrasonic & acoustic) A demonstration of Wildlife Acoustics recording equipment, discuss fit with specific recording needs/projects	Survey Design - Bespoke recording, getting the most out of your recorders. Introducing Kaleidoscope viewer, looking at calls & basic analytical functions.	Set up SM4 recorders and night bat walk with full spectrum bat detectors
8	21 Mar (Thu)	(optional) Recording/pick up detectors left overnight	Introduction to advanced functions of Kaleidoscope Pro. Handling large data sets through cluster analysis Building your own classifiers for specific vocalisations or species.	Handling large data sets Data analysis and interpretation of results. Review, questions, small group discussions.	

Note:
Days 1 to 6 will be handled by Cornell Lab
Days 7 & 8 will be handled by Wildlife Acoustics Inc
Various types of recorders will be available for the use of students during the workshop