Resources for acoustics

Please add any resources you want to highlight!

General-purpose bioacoustics resource page:
- bit.ly/bioacoustics-resources
  - Links to many useful online workshops, courses, guidelines, lists of acoustics software and hardware

Forums & communities:
- WILDLABS - conservation tech forum, often used for community building, troubleshooting, and sharing info about projects and products
  - Acoustics Group - wildlabs.net/groups/acoustics
  - See also: boards for jobs, events, and workshops
- Bioacoustics Stack Exchange - bioacoustics.stackexchange.com/
  - Discussion of more technical acoustic issues
- BioacousTalks - birds.cornell.edu/ccb/bioacoustalks/
  - Presentations and workshops by researchers
- Slack channels - promotions, jobs, advice, community
  - Conservation Bioacoustics - invite link (expires in 90 days)
  - AI for Conservation - invite link (expires in 90 days)

Lists:
Some overlap between these
- WILDLABS Inventory - wildlabs.net/inventory
  - List of conversation tech products, projects, and organizations - add yours!
- Bioacoustics Datasets - bioacoustic-ai.github.io/bioacoustics-datasets/
  - If your dataset isn't listed, request it be added
- Bioacoustics Software - rhine3.github.io/bioacoustics-software/
  - If your software isn't listed, request it be added

Papers and tutorials for selected "hot topics":
- Abundance
  - "Counting the chorus" (Navine et al., 2024 *Ecol Indicators*) doi.org/10.1016/j.ecolind.2024.112930
  - Abundance from detection history (Fiss et al., 2024 *Ecosphere*) doi.org/10.1002/ecs2.4954
    - Hands-on example with Jupyter notebook in workshop: AOS workshop - advanced bioacoustic monitoring
- Beyond biodiversity monitoring
  - Reproductive success from acoustics (Chronister et al. 2024 *Ecography*) doi.org/10.1111/ecog.06940

- ○ Onboard gunshot detection (Katsis et al. 2022 *Ecological Indicators*) doi.org/10.1016/j.ecolind.2022.109128
- Many-species monitoring
  - ○ Transfer learning for communities (Jacuzzi & Olden 2025 *Ecol Informatics*) doi.org/10.1016/j.ecoinf.2025.103294 - BioacousTalk
- Custom classifiers
  - ○ BirdNET custom machine learning models - BioacousTalk
  - ○ OpenSoundscape (Lapp et al. 2023) [doi.org/10.1111/2041-210X.14196](doi.org/10.1111/2041-210X.14196) - opensoundscape.org
    - ■ See also: Classifiers 101 - https://opensoundscape.org/en/latest/classifier_guide/guide.html
  - ○ Hands-on Jupyter notebook for custom classifier training in workshop: AOS workshop - advanced bioacoustic monitoring
- Individual ID
  - ○ Review (Knight et al. 2024 *Trends in Ecology & Evolution*) doi.org/10.1016/j.tree.2024.05.007
  - ○ Survival analysis with individual ID (Lapp et al. *in review*) - Preprint
  - ○ Hands-on individual ID clustering example with Jupyter notebooks in workshop: AOS workshop - advanced bioacoustic monitoring
- Intro to acoustics
  - ○ ESA 2023 - Bioacoustic Monitoring Workshop
  - ○ ESA 2024 - Automated Bioacoustic Surveys 1: Recorder preparation, field deployments, and introductory analysis and inference
- Acoustic localization
  - ○ Review (Rhinehart et al. 2020 *Ecology & Evolution*) [doi.org/10.1002/ece3.6216](doi.org/10.1002/ece3.6216)
  - ○ Automated acoustic localization in OpenSoundscape - https://opensoundscape.org/en/latest/tutorials/acoustic_localization.html
  - ○ Hands-on examples with Jupyter notebooks in workshop: AOS workshop - advanced bioacoustic monitoring

Highlight other resources here!
- **Wildlife Acoustics, Inc Resources, Virtual Trainings & Webinars, Bioacoustics 101 and you can always reach us at www.WildlifeAcoustics.com or by email support2025@wildlifeacoustics.com (soon to be support2026)**