

What is ACMus?

ACMus is a research project that brings together (ethno)musicologists and MIR researchers to analyze **Colombian** music from the **Andes** region

Key Information:

- **Focus:** Semi-supervised and unsupervised MIR methods.
- **Music Data:** Recordings of Andean Colombian music compiled in the **Músicas Regionales Archive** in Medellín – Colombia.
- **Partners:** Fraunhofer IDMT (Germany), TU Ilmenau (Germany), Universidad de Antioquia (Colombia), Universidad Pontificia Bolivariana (Colombia).



Which topics are we looking at?

1. Ensemble Size Classification

GOAL: Develop methods to automatically detect the number of instruments playing in a given audio track. See preliminary results in [1].



3. Musical Scales and Modes

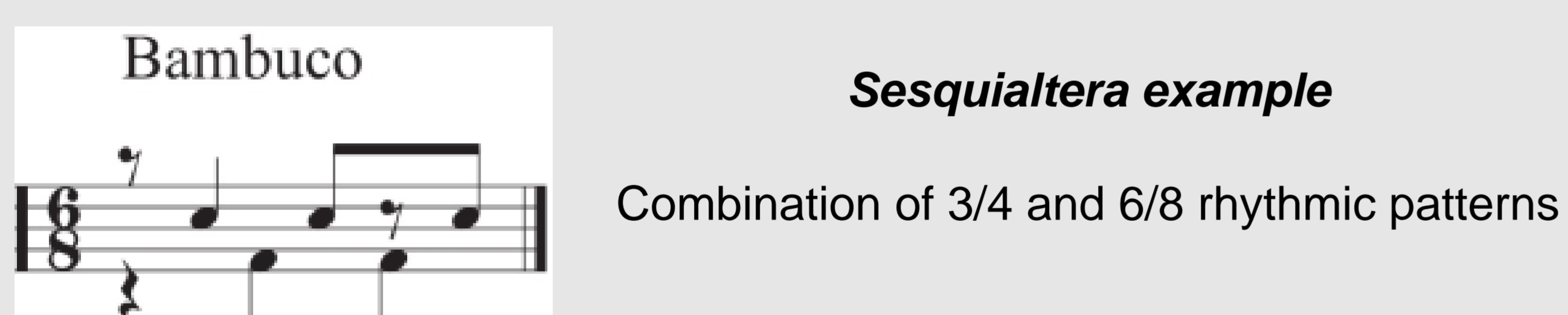
GOAL: Develop methods to better understand the use of scales and modes in music from the Colombian Andes. Use-case: musical traditions of the Colombian Caucaean flutes which show particular tone/semitone distributions outside of equal temperament.

4. Speech/Music Discrimination & Characterization

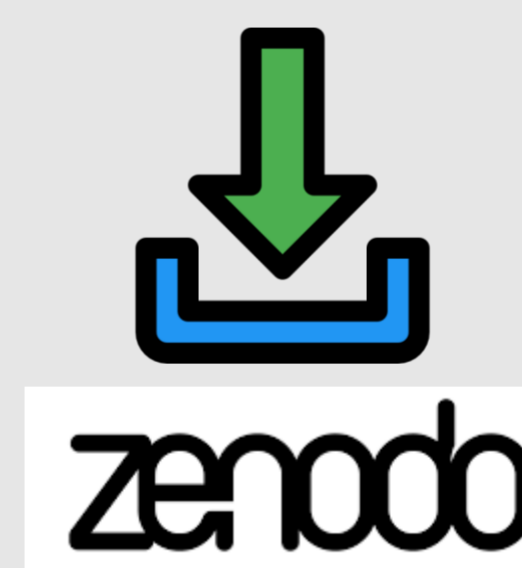
GOAL: Develop methods to distinguish speech data from music data, and provide fine-grained classification labels such as instrumental music or vocal music [2].

2. Meter Analysis

GOAL: Develop methods to analyze the use of compound and simple meters in Colombian (*sesquialtera*) music from the Andes region.



ACMUS-MIR: An annotated data set of Andean Colombian music [3]



ACMUS-MIR
 ├── Rhythm set
 ├── Instrumental format set
 └── Scale set



<https://tinyurl.com/acmus-mir>

Resources

REFERENCES

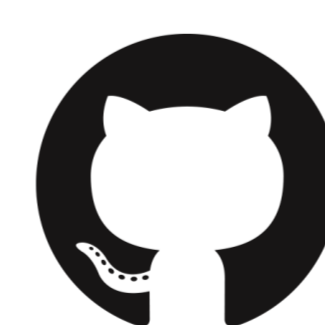
[1] Sascha Grollmisch, Estefanía Cano, Fernando Mora-Ángel, and Gustavo López Gil. Ensemble size classification in Colombian Andean string music recordings. In Proceedings of the 14th International Symposium of Computer Music Multidisciplinary Research CMMR. Marseille, France. October 2019.

[2] Estefanía Cano, Fernando Mora-Ángel, Gustavo López Gil, José Ricardo Zapata, and Antonio Escamilla. Singing voice, speech, or something in between. In Meinard Müller, Emilia Gómez, and Yi-Hsuan Yang, editors, Computational Methods for Melody and Voice Processing in Music Recordings (Dagstuhl Seminar 19052), volume 9, pages 125–177. Schloss Dagstuhl–Leibniz Zentrum fuer Informatik, Dagstuhl, Germany, 2019.

[3] Fernando Mora-Ángel, Gustavo A. López Gil, Estefanía Cano, & Sascha Grollmisch. (2019). ACMUS-MIR: An annotated data set of Andean Colombian music (Version 1.0) [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.3268961>



<https://acmus-mir.github.io/>



ACMUS-MIR

* This work has been partially supported by the German Research Foundation BR 1333/20-1