

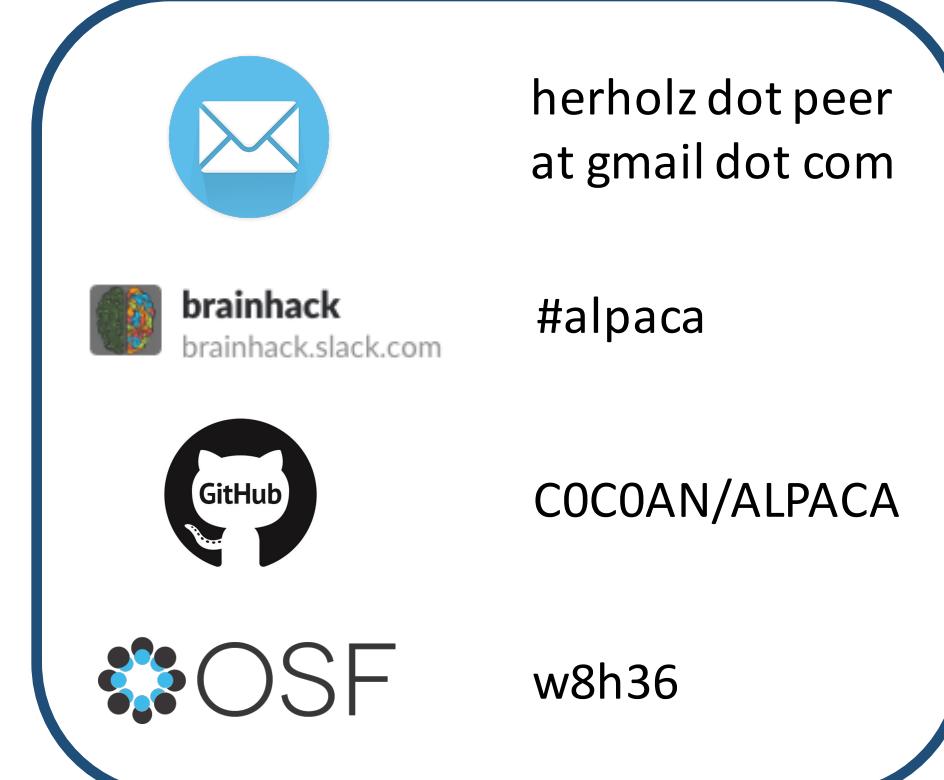
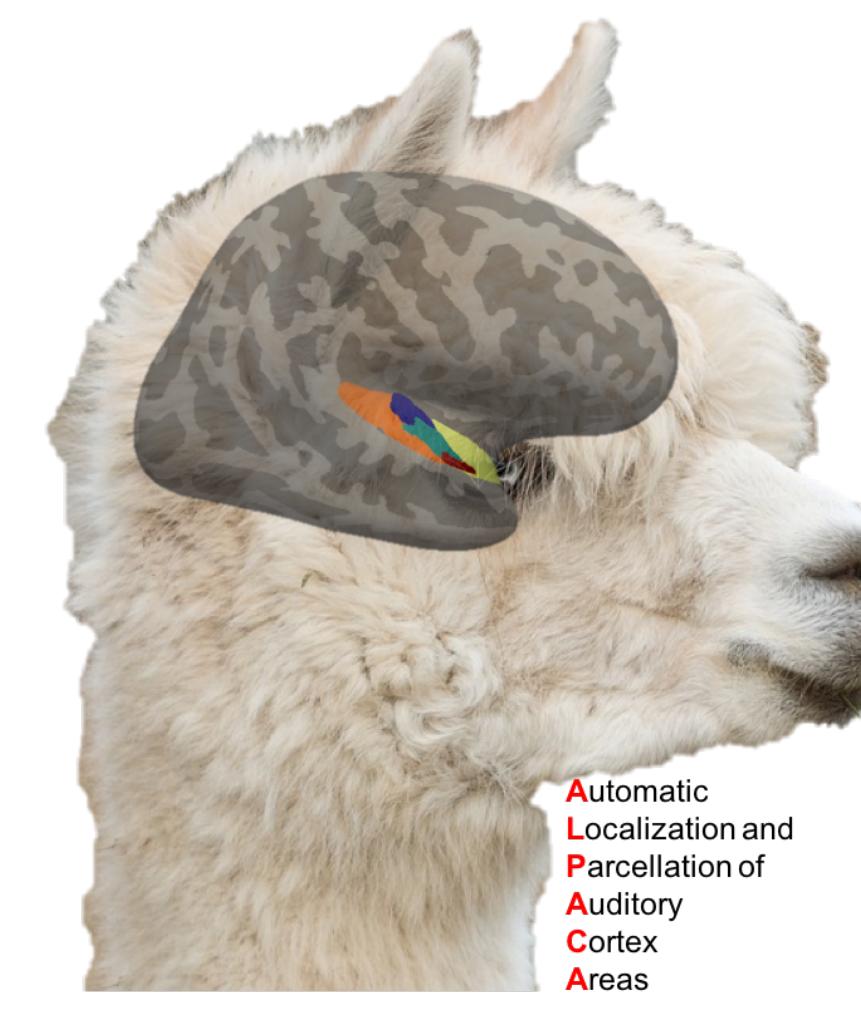
ALPACA – Automatic Localization and Parcellation of Auditory Cortex Areas

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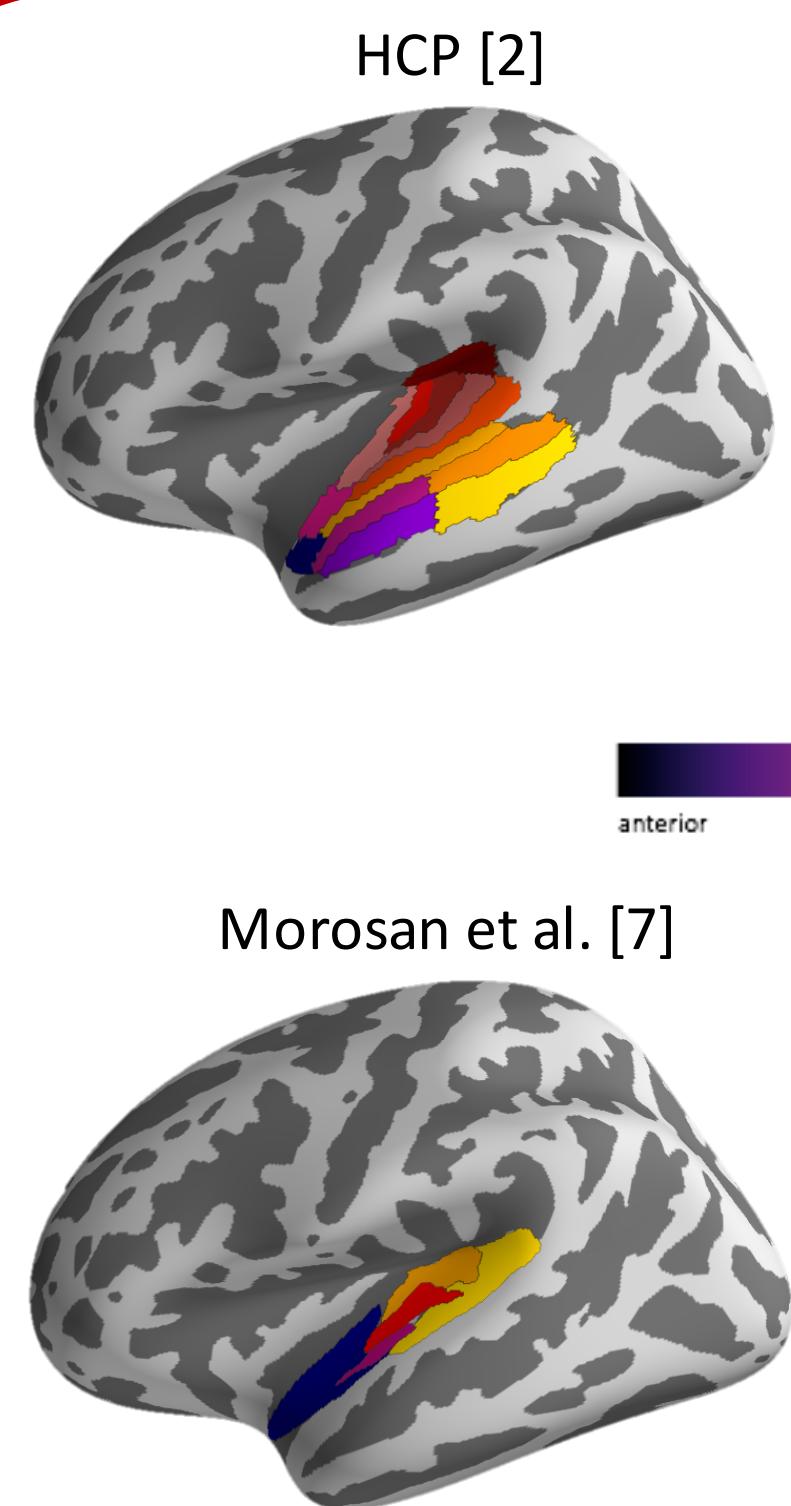


- compared to other primary sensory regions, the location and parcellation of auditory cortex is rather unreliable [1]
- huge differences between different anatomical (e.g., cytoarchitecture) and functional (e.g., tonotopy) approaches [2]
- difficult experimental settings (e.g., scanner noise, sound distortions) [3]
- code & data usually not shared

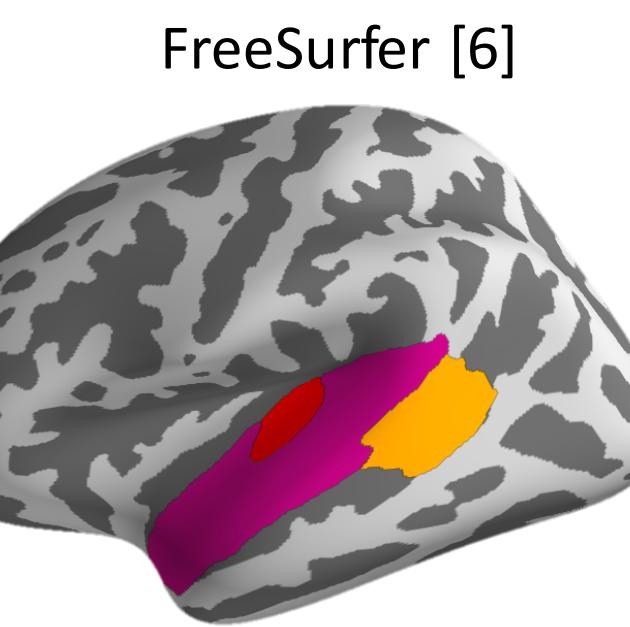
The “perks” of the auditory cortex

ALPACA today

surface examples



Morosan et al. [7]



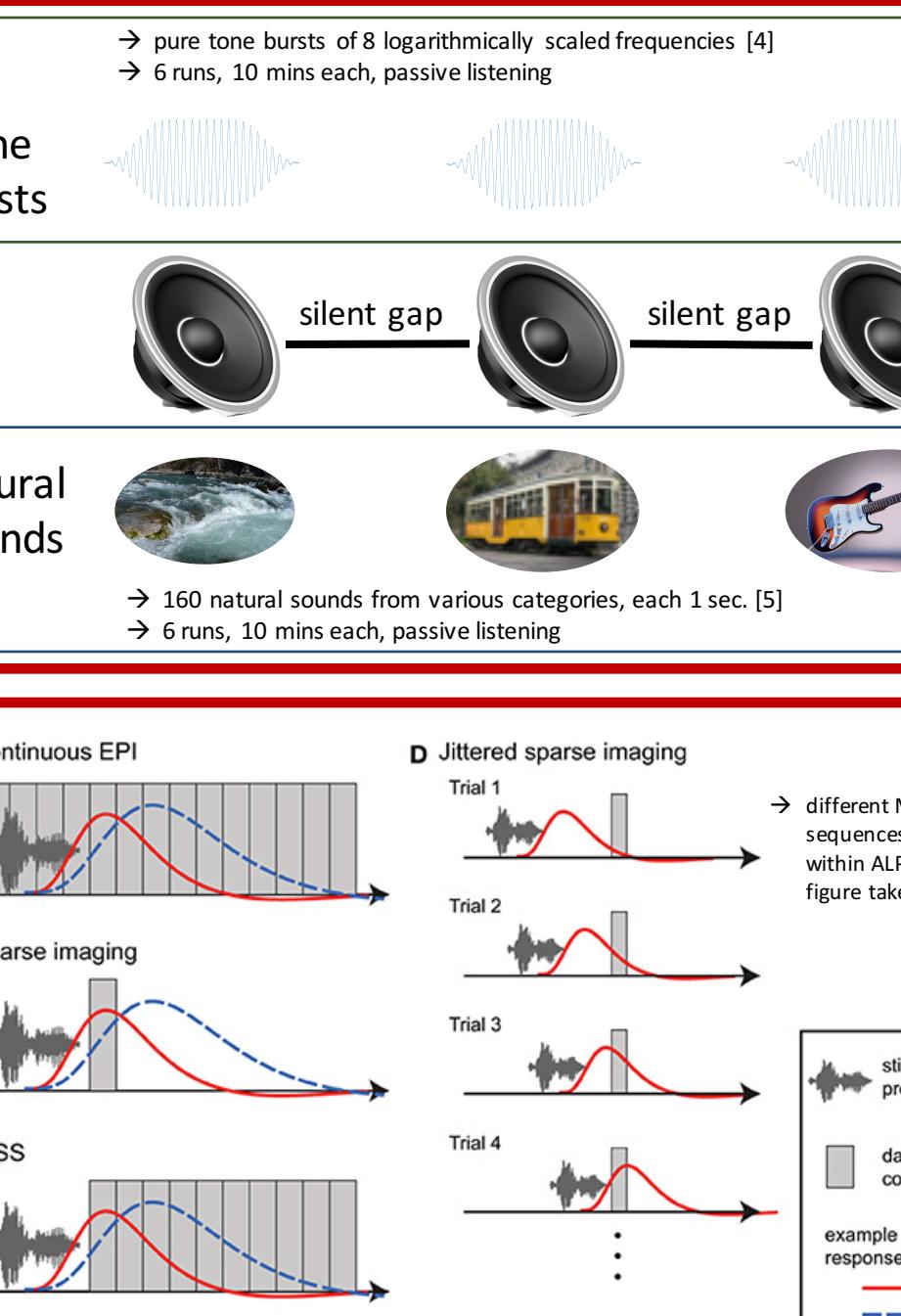
Norman-Haignere et al. [8]

ALPACA's future

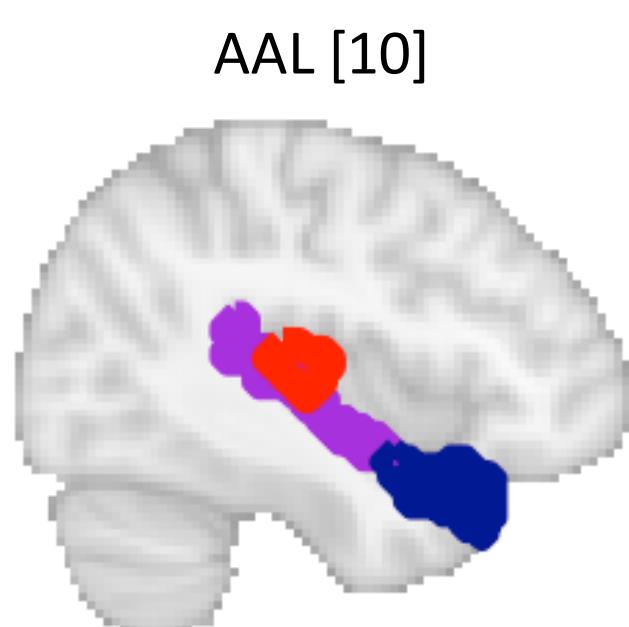
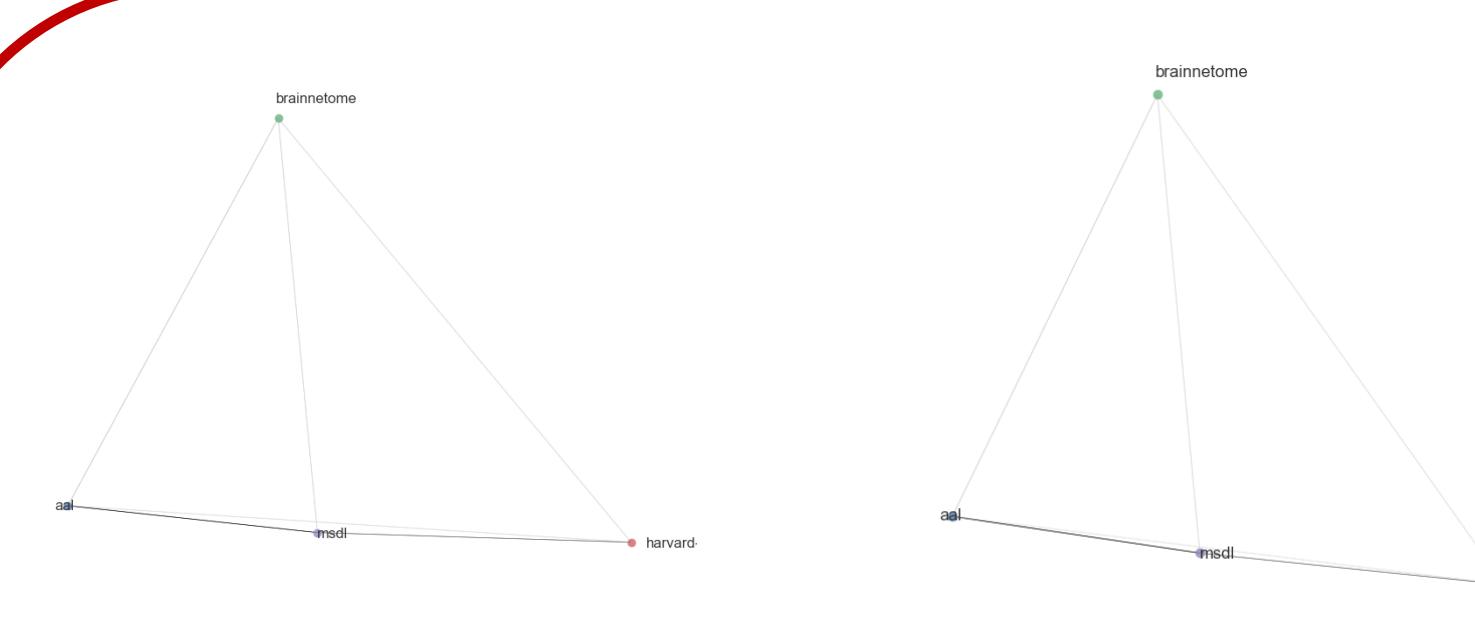
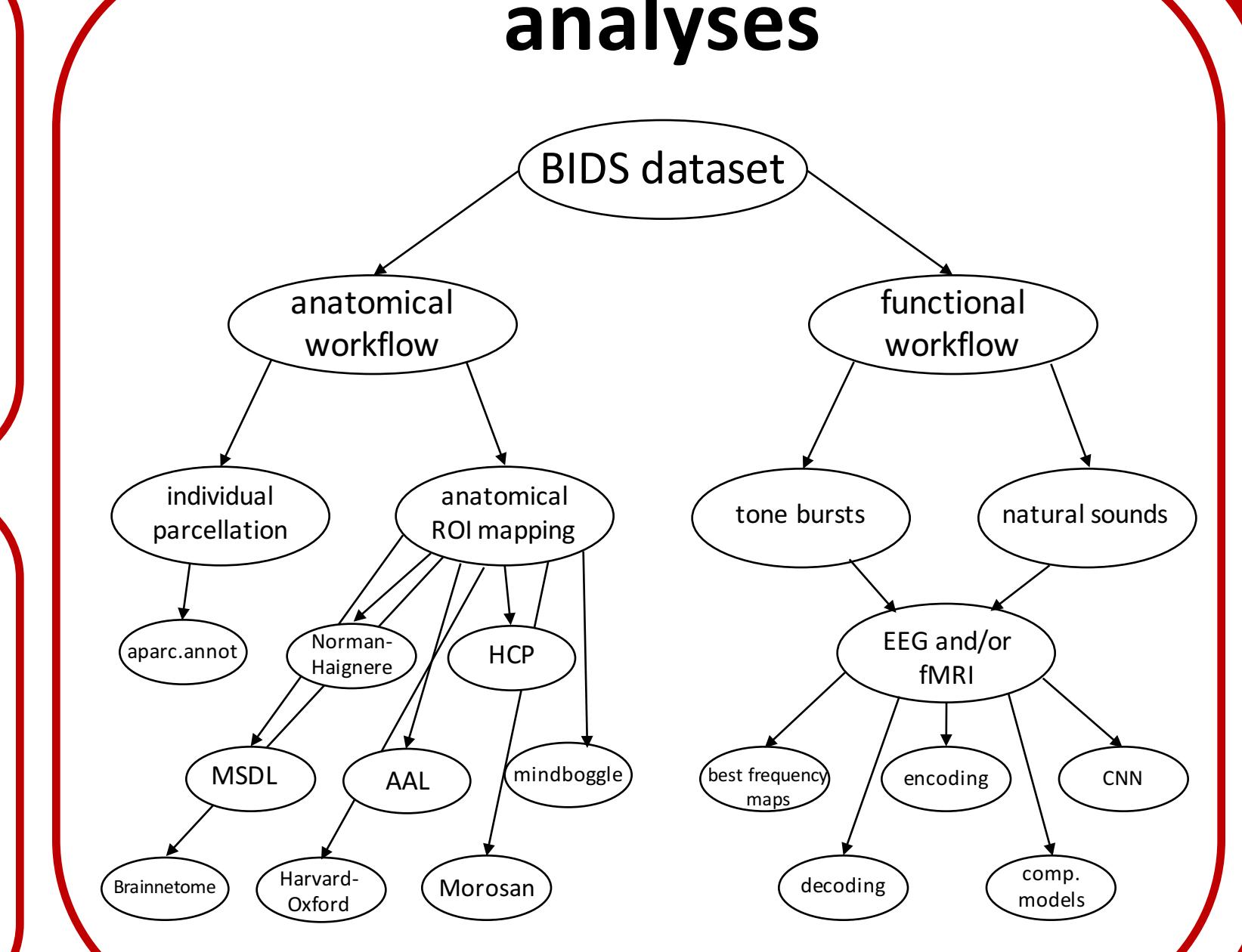
- automated application as a BIDS app [12]
- python module
- tutorials regarding different parts of ALPACA:
 - generate auditory stimuli & experiments
 - data management & preparation
 - ROI extraction
- summary html, ROI data upload & interactive visualization
- upload of pre-trained models

ALPACA to the rescue

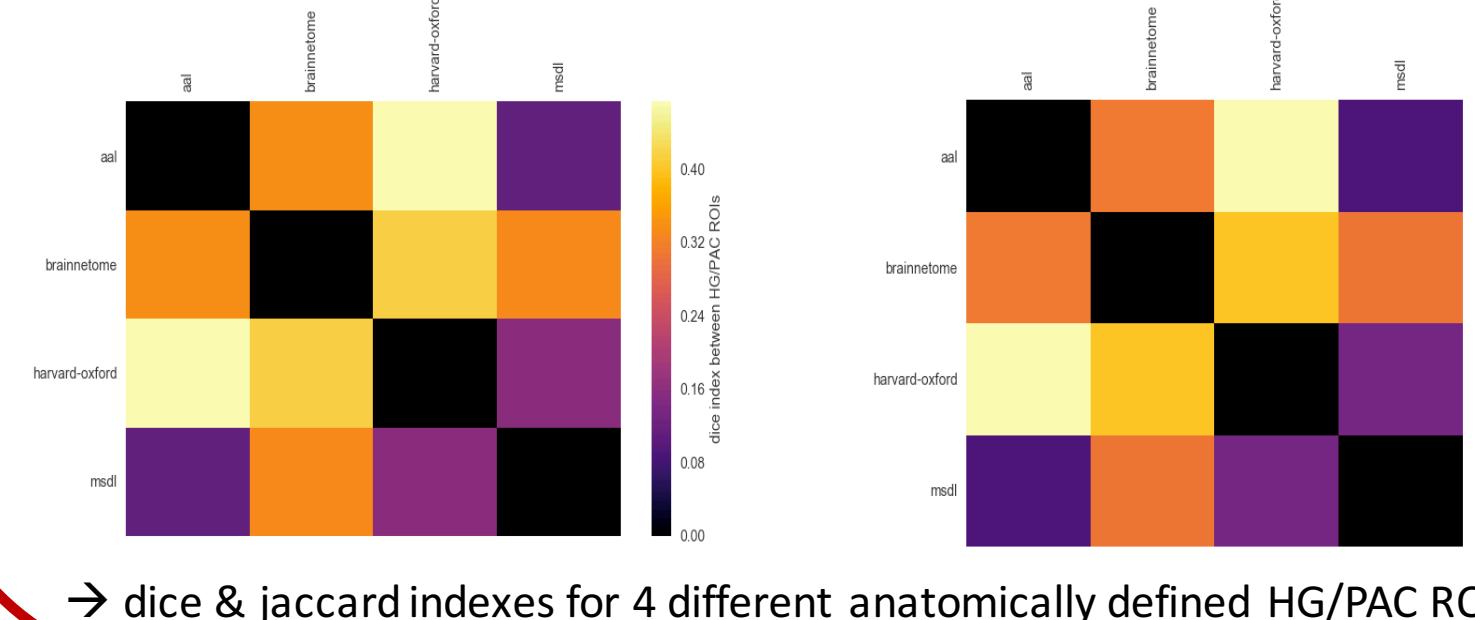
paradigms



sequences



volume examples



specificity of HG/PAC

acknowledgements, references & contribution



Interested?
Want to contribute?
Great! We're always happy to have more people involved!

Just get in touch and/or fork me on github:

