Pi config file schema

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| Variable | Category | Format | Description | Default |
| device\_name | Recording variables (for arecord) | string | Recording device (mic) name. plughw:cardnumber,devicenumber (find these with arecord -l). | "plughw:1,0**"** |
| number\_of\_channels | Recording variables (for arecord) | string\* | Number of channels. | "1" |
| duration | Recording variables (for arecord) | string\* | Duration of recording (seconds). | "60" |
| sampling\_rate | Recording variables (for arecord) | string\* | Sampling rate (Hertz). Need to be at least double the highest frequency bird call you want to sample. | "24000" |
| data\_format | Recording variables (for arecord) | string | Data format. | "S32\_LE" |
| file\_type | Recording variables (for arecord) | string | File type to save. | "wav" |
| recording\_type | Recording variables (for arecord) | string | Recording type – mono or stereo. | "mono" |
| directory\_to\_save\_audio | Saving data | string | Specify the directory where the audio files will be saved | "/media/bird-pi/DATA/BIRD/testing/" |
| LID\*\* | Metadata variables (used in filename) | string | A unique ID identifier for the survey location (“LID\_” followed by a unique number). This identifier can be matched with the location metadata. | "LID\_test" |
| SID\*\* | Metadata variables (used in filename) | string | The unique identifier for each AMI trap system (“SID\_” followed by a unique number). This identifier can be matched with the system metadata. | "SID\_test" |
| HID | Metadata variables (used in filename) | string | The unique identifier for the individual sensor (“HID\_” followed by a unique number). This identifier can be matched with the hardware metadata. | "HID\_test" |
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\*Can’t be number (has to be string of a number) due to the way arguments are passed to arecord using subprocess

\*\* Will eventually be moved into general config file (rather than audio specific one)