# Acquisition Sketch Project Meeting 6:

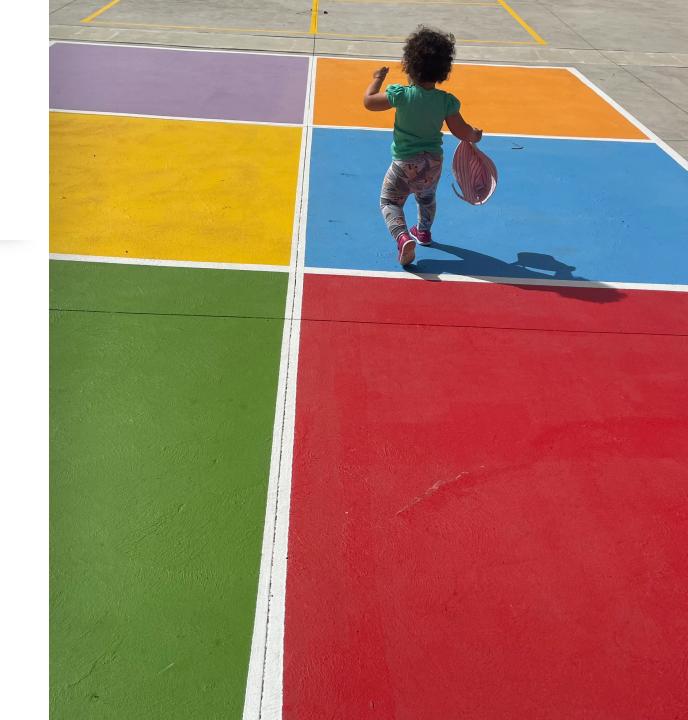
Data Processing Part 2 –
Transcription, Translation, Annotation,
Deciphering & Interpreting Child Utterances

### Agenda

 Deciphering children's utterances

Transcription

 Glossing children's utterances



• Children's language is often:

- Non-target-like
- Repetitive
- Very linked to immediate context, the 'here and now'

- An unfortunate truth: Some utterances will remain unclear, despite all attempts
- A tolerance for uncertainty is needed!
- Aim for a balance between quality and practicality

 To help achieve balance of quality/practicality, decide on the following:

- Number of times to review an utterance (before going with best guess or deeming it unintelligible)
- Conventions for transcribing best guesses
  - Transcribe segment as XXX and put best guess on another tier?
  - Put best guess on main tier but note your uncertainty on another tier?
- Criteria for when to ask for a second opinion

• What can help to decipher children's language:

- Engaging someone very familiar with the child and their daily life (e.g. a caregiver)
- Other children can also be very good helpers, as can the focus children themselves

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- Note: repetitions may or may not be contiguous

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Child 3;2

2:17mins



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- Other participants' utterances before/after child's

2:03mins Adult: *mamba da thelput manawathanu* 'Well I'm going to make a **house**'

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• e.g. Someone gives orange to child – previous request for food?

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- Other participants' utterances before/after child's
- Nonverbal behavior of child or others present
- Environmental context
- E.g. bird song, a car/plane

# Transcription

• Extra steps to maximize transcription success and speed:

- 1) Familiarize yourself with the context of each recording
- 2) Prepare file ahead of transcription
- 3) Note repetitions

• 1) Familiarize yourself with the context of each recording

- Watch the recording session before starting to transcribe, to
  - give you an overall sense of the context and what happens
  - help you tune into individual child/children's speech

• If the transcriber wasn't present at the recording session, or the recording was made a while ago, consider playing a short stretch of the video before transcribing

• 2) Prepare file ahead of transcription

- First pass transcript: leave out interjections, false starts, hesitations, screams etc.
- So transcriber can focus on deciphering children's utterances

Segment file (or some of file) ahead of transcribing

Figure 2a. Initial segmentation in the Qaqet corpus (for first-pass transcription).

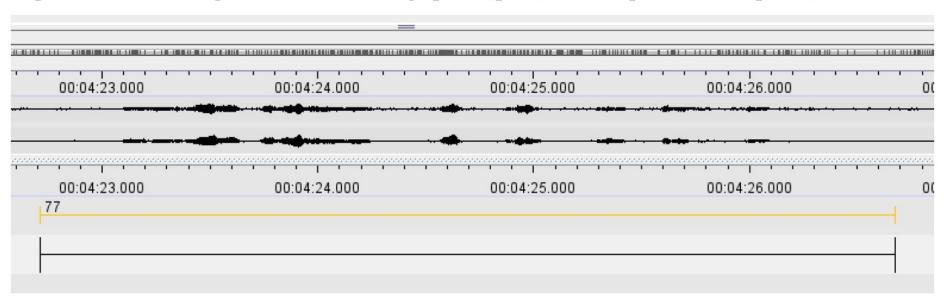
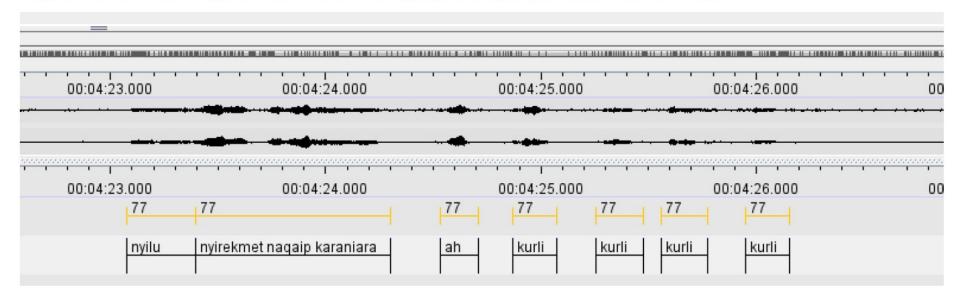


Figure 2b. Final segmentation in the Qaqet corpus (intonation units).



Sketch Acquisition Manual, p. 26

• 3) Note repetitive utterances

- Use repetitions as a tool when utterance is hard to decipher
- Exclude non-useful repetitions to prevent transcriber fatigue/boredom

• Transcription: an iterative process

- The iterative nature of transcription is actually helpful!
- Understanding of individual children's language often improves through the transcription process

- Even for first pass transcription, numerous tiers are needed.
- You'll want to record:

- Child's actual utterance
- Adult interpretation of utterance
- Translation
- Probably also:
- Notes

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Child's actual utterance

• Try to be as faithful to the child's actual utterance as possible

- Pronunciation: decide how you will represent this in the transcript
- IPA? Standard orthography plus a few extra graphemes? A combination of both?

- Child's actual utterance
- Adult interpretation of utterance
- Translation
- Notes

Adult interpretation of utterance

- Transcribers may feel compelled to provide 'proper' version
- Important to allow an outlet for adults to express this
- It could also lead to interesting conversation/comments around common 'mistakes' by children generally

• It is important that transcribers know that it is ok if they are not sure what the child is saying!

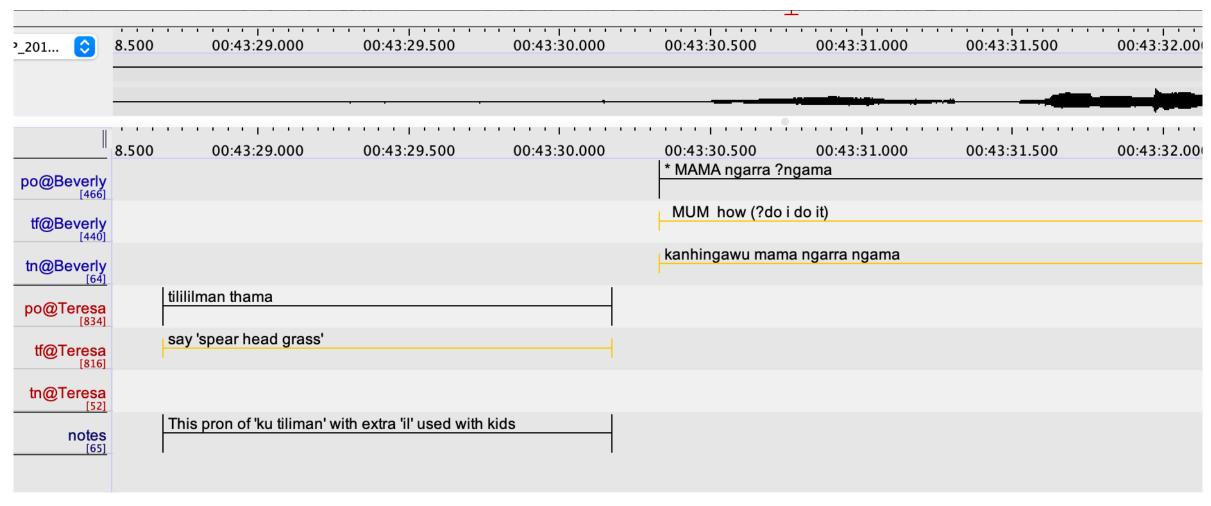
- Child's actual utterance
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• into national language, English, etc, to make corpus accessible to wider audiences

- Child's actual utterance
- Adult interpretation of utterance
- Translation
- Notes

• e.g. for generalizable features of children's language ('babytalk')

#### First pass transcription, Murrinhpatha



po= practical orthography; tf = free translation; tn = transcription notes

- Second pass/subsequent passes:
- Add everything you excluded at first, e.g. false starts, hesitations, interjections, repetitions. (These are important to include)

 Add extra tiers as needed/desired for annotation e.g. addressee, phonetic transcription,

#### Final transcript, Qaqet

ref reference for data file

addr addressee

trs transcription

trs-i interpretation of child utterance

ft free translation (English)

tp free translation (Tok Pisin)

tx text

mb morphemic breakdown

ge gloss

ps part of speech

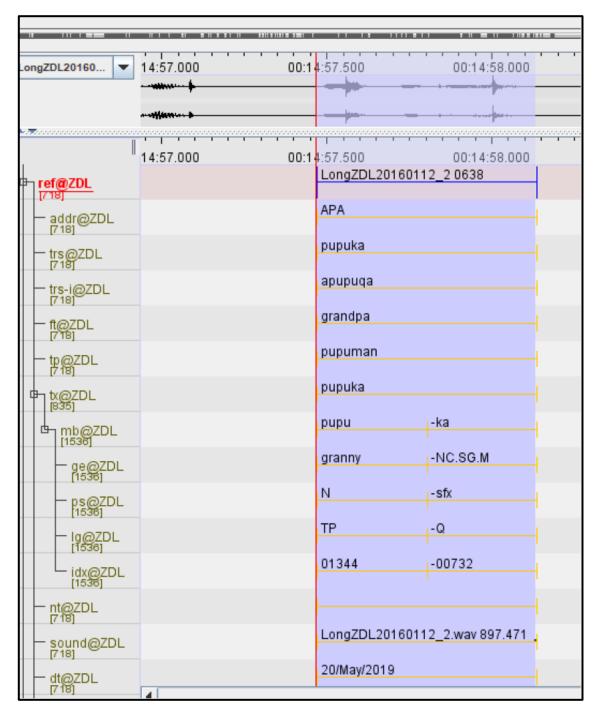
lg language

idx index

nt notes

sound link to sound file

dt date



#### Transcription as data collection

- Opportunity to collect more information about an individual child's language, and also ethnographic data
- Can also often spark great conversations about language development more generally, plus local ideas/beliefs/practices regarding language learning
- e.g. discussion of typical 'mistakes' children make at certain ages/stages, discussion of multilingualism in the community



- How to gloss words that contain partially realized morphemes?
- Tricky, and there is no simple answer.
- 1) Gloss the adult interpretation of the utterances
  - The corpus is more searchable and accessible
- 2) Gloss the child's actual utterance
  - Avoids clouding picture of the child's morphological development
- We suggest option 2), but both choices are valid.

Example from Qaqet

- Example from Qaqet
- Child attempts to repeat utterance of interlocutor

```
(1) child (1;11): mpapama target: gupapaiama gu=papa-iam=a gu=papa-iam=a DET=papa-DU.M=DIST 1SG.POSS=papa-DU.M=DIST
```

'two parents'

'my two parents' SAM, p33

- Example from Qaqet
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(1) child (1;11): mpapama target: gupapaiama gu=papa-iam=a gu=papa-iam=a 1SG.POSS=papa-DU.M=DIST 'two parents' 'my two parents' SAM, p33
```

- [am] out of context this would be analyzed as -am, but enough info in this context to analyze it as -iam
- Initial [m] very different from target gu. More similar to articles ma & ama. Better analyzed as one of these? If so, which one?? Analytic decision here: m glossed as DET

Example from Qaqet

- No assumptions about what morpheme the child 'intended' to use.
- This analytic decision simply makes the corpus searchable (key to detecting patterns)
- This approach also guides against an overinterpretation of 'errors'
- Impossible to know if something is an 'error' from one example
- Such interpretations may obscure patterns in the data

- Analysis of 'unknown morpheme' preferable to no analysis
- Example from Murrinhpatha
- Child attempts to repeat utterance of interlocutor

child (3;2) xxx-aykay target: thanamkaykay xxx-kaykay thanam-kaykay unknown-call\_out 'XXX call out' target: thanamkaykay thanam-kaykay thanam-kaykay 'SG.BE(4).NFUT-call\_out 'you call out'

• Decided on 'unknown' despite knowing the target form. Too unclear.

- Record the analytic difficulty and the reasons for your analysis (on a separate tier, e.g. 'notes')
- If it is a recurring issue, make a note in a separate document (e.g. in Qaqet: nasal elements in pre-nominal slots) to free up the notes tier.

 Rote-learned forms- a common phenomenon where a child produces a morphologically complex form without having analyzed internal structure

- Likely not enough instances in the sketch to be able to discern whether a form is productive or not.
- This is ok!
- Glossing the form does not assume productivity.

