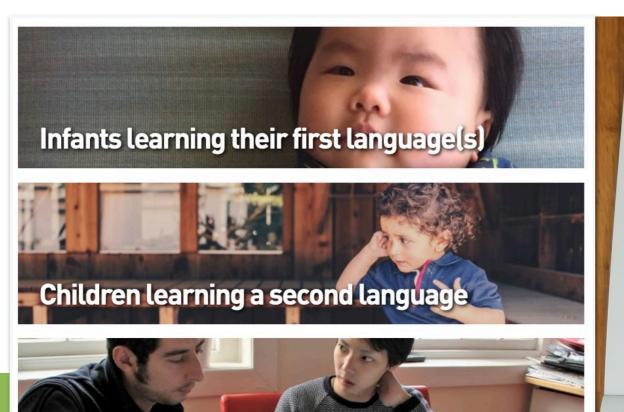
## What to expect when your child learns a Coast Salish language

Martina Joe & Elise K McClay - Linguistics Simon Fraser University

In collaboration with **Henny Yeung** and the whole language acquisition research team: **Randeana Peter**, **Sonya Bird**, **Boey Kwan**, Delores Louie, Roseanna George, Donna Gerdts, Samantha Sundby, Blair Chartrand, Chloë Farr, Elaine Seymour, Georgina Seymour, Ruby Peter, and Allegra Simionato.

'iyus munmun'lh workshop (March 16th, 2023, adapted from last year's presentation)





#### ?a·ktuqakwum:

hawisq#i?it (for a place to be flooded) huqqtu (for snow to start to melt) ?a·kŧu (snow) ?itkin (to make) ?a·quku# (raft) qawsaqa ?aqtas (to stay inside) ?itmasi (to be dry) ?utmi (to be warm)

N'ini qaŧsan natanik tikuģ. ʔat huģqŧu?ni ¢ ?amak

hawisq#i?itni.

The third month is likuq. The snow starts to melt, and the ground

¢ip ?at qawsaqa?ni ?a·q‡as tikuás k ¢ tatit ?utmi ¢ ?itmasi.

Çip stays inside in March so he stays warm and dry.



https://youtu.be/VDBPuAbWcBA

#### ŁIK'UQ'

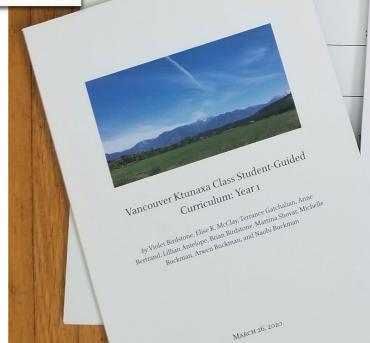
KŁA KŁA KŁA QAŁSANMIYI T VI.KIINMIYIT ZINMISANMIYIT



#### let's talk

sfu.ca/langdev





KUKIÇINMIYIT .



Vancouver Ktunaxa Class Student-Guided Curriculum: Year 2

by Violet Birdstone, Elise K. McClay, Terrance Gatchalian, Lillian Antelope, Brian Birdstone, Michele Buckman, Arwen Buckman, Niobe Buckman, and Martina Escutin

March 26, 2021

## AKA: Eyise

When I was a child, it took a while for me to be able to say my name.



#### Pronunciation in child language

Introduction	Learning English sounds, preview of Hul'q'umi'num'			
	Typical differences between child & adult speech			
	Salish languages (what sounds may be hard, why)			
Key points	Hul'q'umi'num' (Language Nest report)			
	Hul'q'umi'num' (Language Acquisition report)			
Take-homes	Discussion			

#### Pronunciation in child language

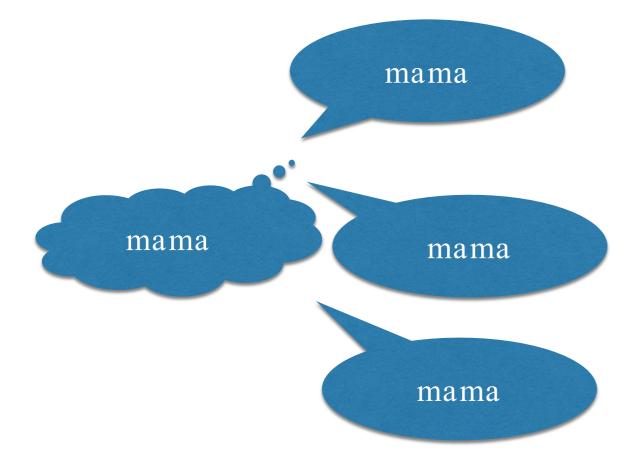
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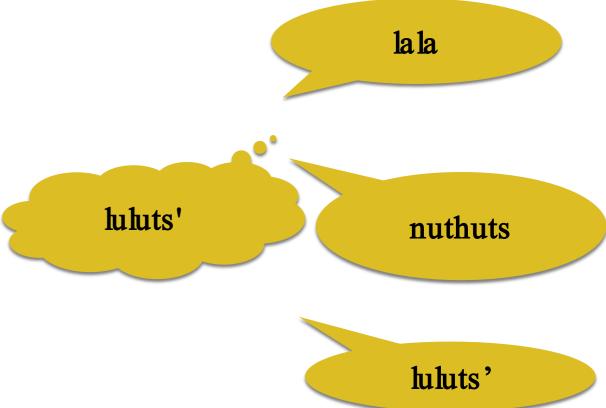
#### Main Ideas



• Children will **reliably** say some sounds **earlier** than they will be able to say other sounds.

 There are patterns in what sounds come earlier, compared to which sounds come later.
 These patterns even apply across languages.

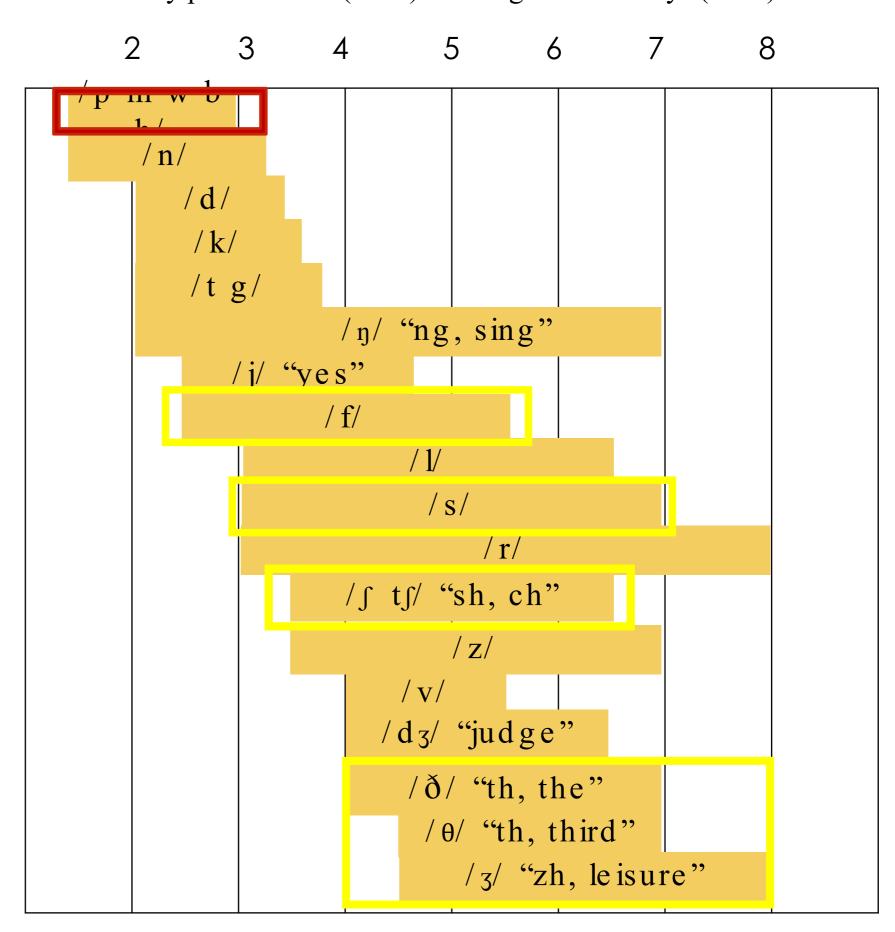




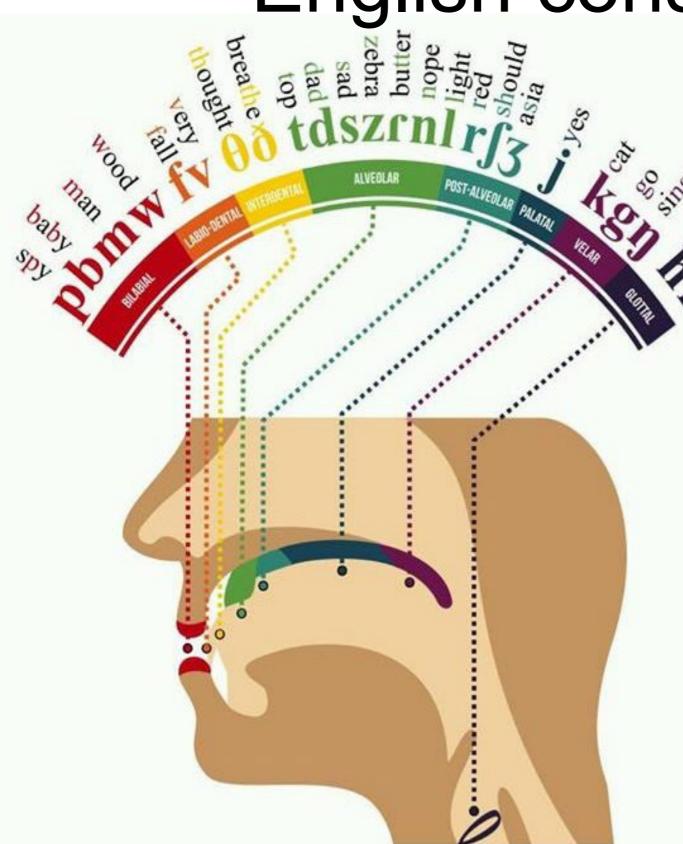
Difference between "age of customary production" (50%) and "age of mastery" (90%)

English consonant learning (in years)

adapted from SLT Info & Williamson 2010



#### English consonants



- Where you make the sound
- How you make the sound

Image originally designed by Tyler Neyens for a languagebasecamp.com article by Halle Neyens

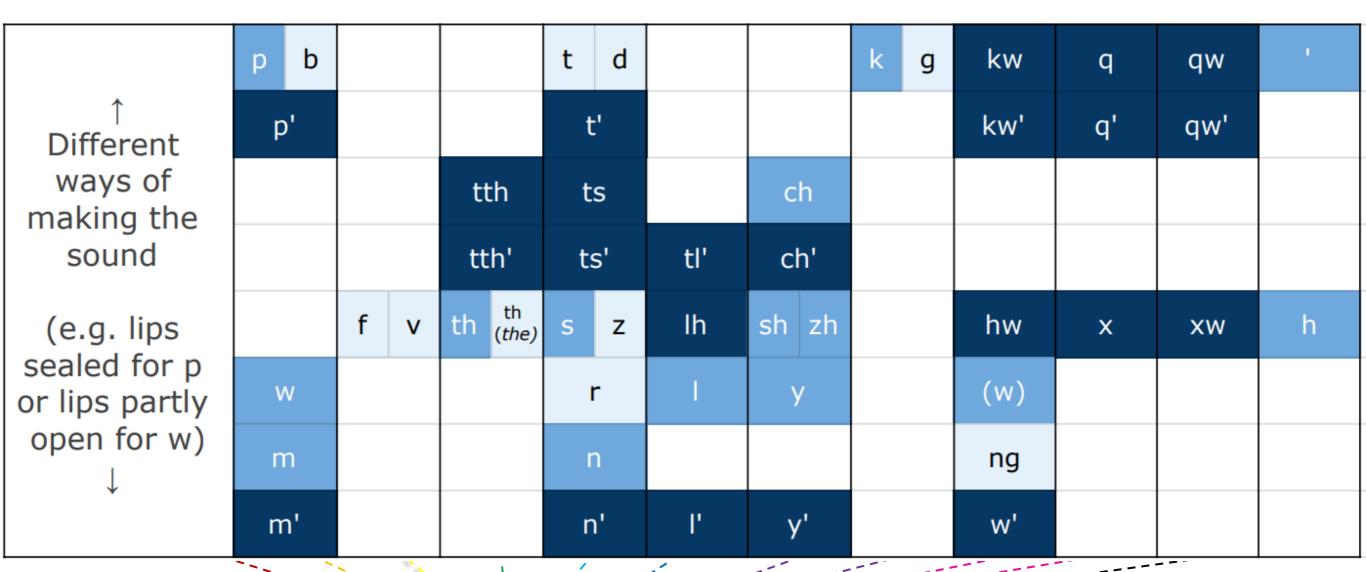
#### Hul'q'umi'num' consonants

```
p, p', m, m', w, w'
    tth, tth', th
       t, t', ts, ts', tl', s, lh, n, n', l, l'
            ch, ch', sh, y, y'
                  k, kw, kw', hw
                        q, q', x, qw, qw', xw
```

Some sounds are shared between English and Hul'q'umi'num', some sounds are unique to one or the other.

Image originally designed by Tyler Neyens for a languagebasecamp.com article by Halle Neyens

## Hul'q'umi'num' & English sounds



Legend				
<u>Languages</u>	<u>Total</u>			
English only	10			
Both	14			
Hul'q'umi'num' only	23*			

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# vyny don't children pronounce like adults?

Fine motor control is hard and takes time.

Some sounds are rare and hard to pick out of a crowd (English "th" sounds close to "f")

Sometimes, even if a child can say some sounds, they continue producing their earlier versions of those sounds, too.

("idioms" like "tottages")

#### Final consonant deletion

Child A (age 7,2) a. [kæ:] 'cab' wuhu wuxus [kr]'kid' [do:] 'dog' (Dinnsen, Barlow & Gierut 2012) spaal' spaa luluts' lala

#### Weak syllable deletion

banana → nana giraffe → raffe forgot → got

Child 195 (4;11; Dinnsen, Gierut & Farris-Trimble 2010)





#### Consonant cluster reduction

[lor] 'floor' [lip] 'sleep'

[l ai] 'fly' [l \( \epsilon d \) 'sled'

[læg] 'flag' [laɪd] 'slide'

Child 218 (4;6; Dinnsen, Gierut, Morrisette & Rose 2014)

snuxshun

lhq'etsus

sashun

kese

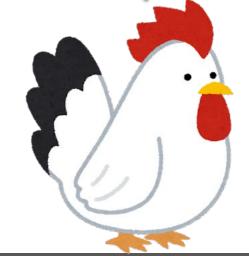
chichkun

chichakun'

mousmus

mousus

from Lsutoya.com



#### Fronting

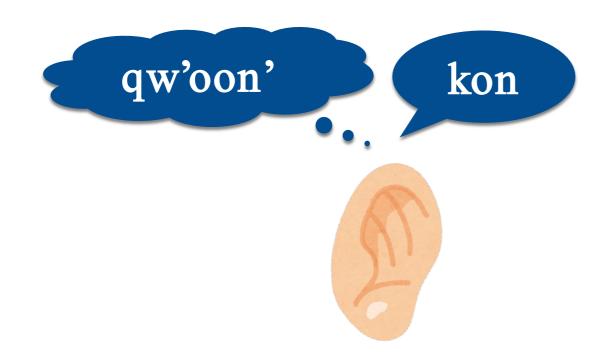
cat	/kæt/	$\rightarrow$	/tæt/
goat	/gəut/	$\rightarrow$	/dəut/
cod	/kpd/	$\rightarrow$	/tpd/

From STL Info

(https://www.sltinfo.com/phon1

01-velar-fronting/)





#### ... to words

#### ... to sounds

What do children commonly do?

- Final consonant deletion
- Weak-syllable deletion
- **—** . . .

- Consonant cluster reduction
- Fronting
- . . .

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#### Hul'q'umi'num' consonants

```
p, p', m, m', w, w'

tth, tth', th

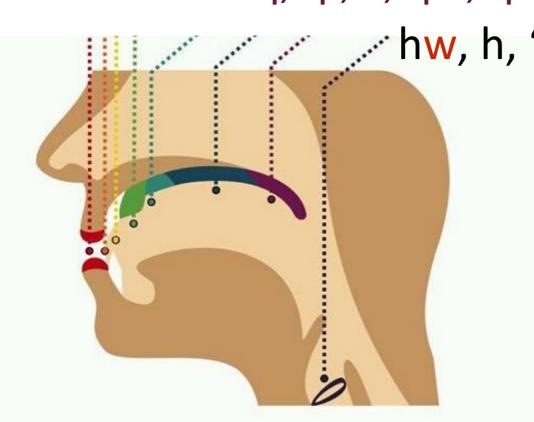
t, ts, ts', tl', s, lh, n, n', l, l'

ch, ch', sh, y, y'

k, kw, kw'

q, q', x, qw, qw', xw
```

Some sounds are shared between English and Hul'q'umi'num', some sounds are unique to one or the other.



Some Hul'q'umi'num'-only sounds...

- Have ' ("glottalized")
- Combos like tth, ts, and ch' ("affricates")
- Back-of-mouth like q, x, and xw

Image originally designed by Tyler Neyens for a

SFU SIMON FRASER UNIVERSITY

### Making predictions

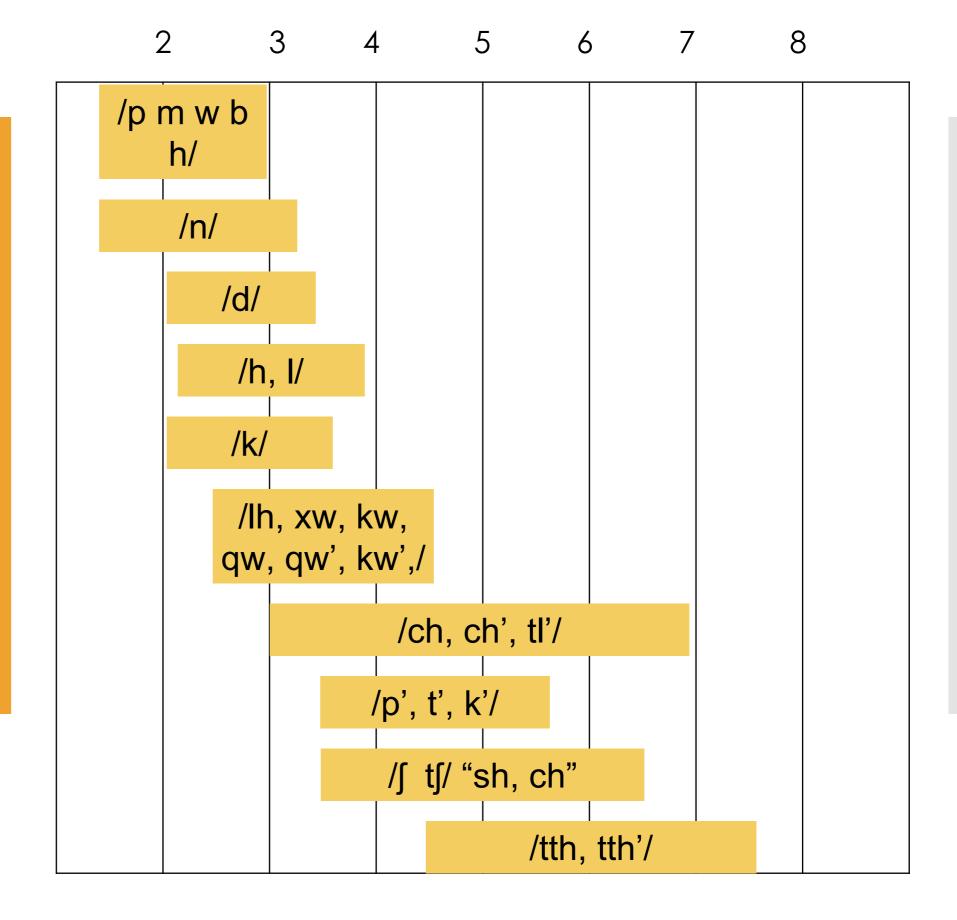
Lab volunteers Kim Mann and Laura Dand helped put together information from other language contexts that have some similar language sounds: **isiXhosa** ('and combos) and **Q'eqchi'** (', combos, and back-of-mouth) Both languages have relatively large populations of speakers.

For languages smaller populations, the **order** children learn sounds at will probably remain similar, but the **timing** will be likely to be delayed.

Estimated range for "age of mastery" (90%) based on other languages

Predicted
Coast
Salish
consonant
learning
(in years)

Adapted from Learning the sounds of Skwxú7mesh sníchim Primer



## Predicting order of acquisition

Later sounds include ones...

- In the back of the mouth like xw and qw (age 2.5-4.5)
- That include a combo of two sounds (affricates) like **tth**, **ch**, and **tl** (age 3-7)
- That have a '(glottalized sounds) like qw' and ts' (age 3.5-7.5)
- Where the tongue touches the back of the teeth (interdentals) like th and tth (age 4.5-7.5)

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## Language Nest

7 families, 16 children, age ranging from 18 months to 9 years old

New method: instead of working with Elders, working with L2 learner-speakers, learning alongside children

Covid also impacted the way the nest happens...

- Continued the nest on Zoom so the children still saw each other and people stayed in touch
- Now, parents meet on Zoom on Saturdays

### Language Nest: Now

Have been growing immersion in our own homes with daily activities. Came up with some sentences that we say daily and started speaking them in hul'q'umi'num'. Things like...

- Commands (Go have a snack, Put away your bags, etc.)
- Routines (in the morning, after school, evening)
- Pointing out **images** in picture books
- Counting, singing songs
- Pointing out animals on car rides
- Being able to understand words or commands at cultural gatherings
  Kids have even been correcting their families outside of the house on their language!

Impact on the whole community, not just the family doing the Nest.

## Three projects so far

Numbers (Martina Joe and Rosie George's class paper)

Glottals (Rosie, Martina, Thomas Johnny, Dana Shier, Blair Chartrand, Sam Sundby)

'Repeat after me"

## "Repeat after me"

Children 3-7 years old repeated after adults (body parts, creatures, and numbers).

Described...

- How old children were the first time they said specific sounds
- Number of times in the word lists they **heard** or said those sounds

**Predictions** from other languages were helpful but imperfect.

The more kids heard a sound, the more reliably they could say it. – best at sounds in both langs

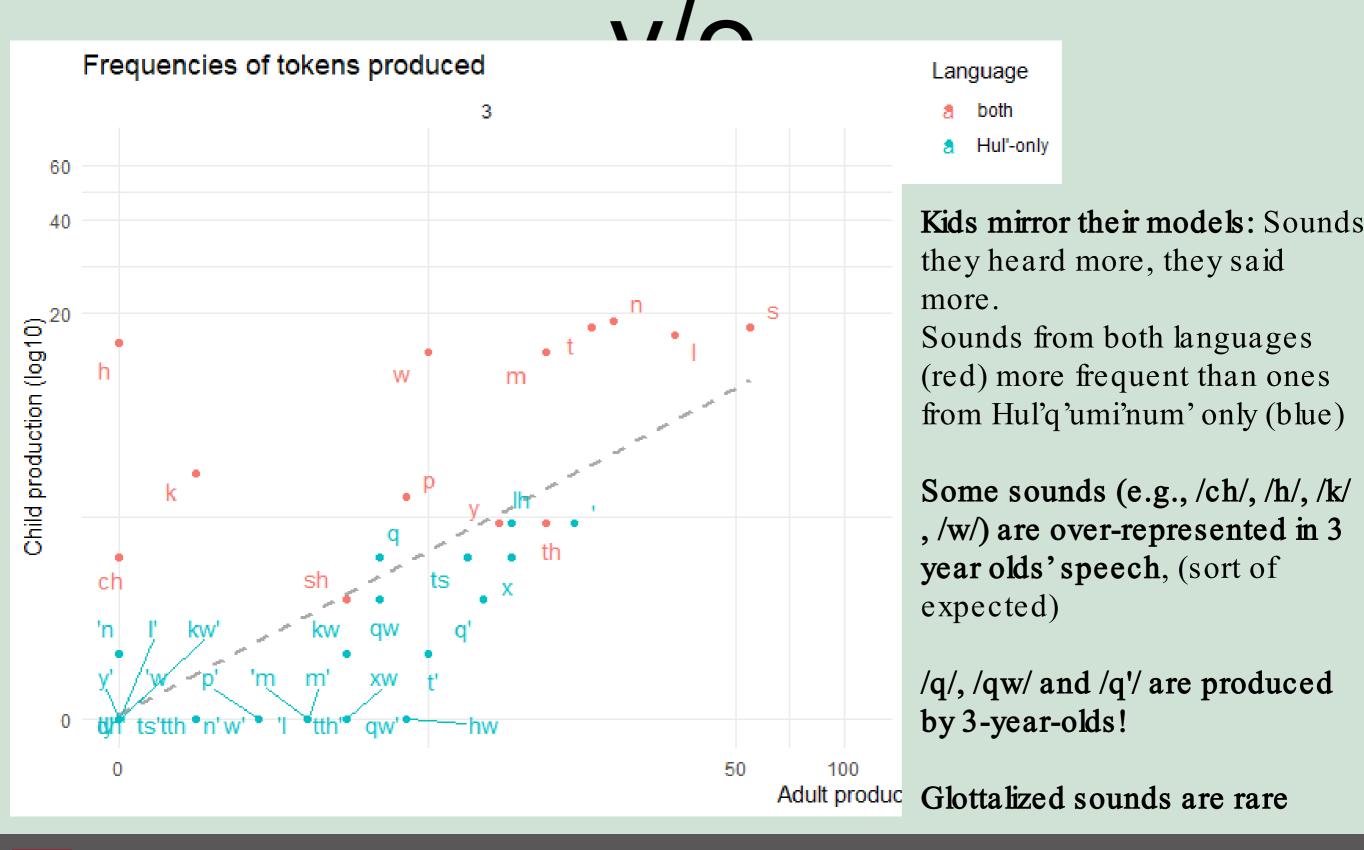
## Predictions vs. Reality

		Age of first production in Hul'q'umi'num'						
		3	4	5	6	7	Not yet produced	<u>Legend</u>
Age predicted in Skwxwu7mesh flyer	3	h, k, kw, l, lh, m, n, p, qw, s, sh, t, w, x, y				hw, xw	kw', qw'	Hul'q'umi'num' age compared to prediction in Skwxwu7mesh flyer
	4	ch, t'					*ch', p'	Younger
	5						*tl'	Same
	6							Older
	7							No production so no comparison
	No prediction	', *'n, q, q', th, ts				l', 'm, n', w', *'w, y'	'l, m', tth, tth', ts', *'y	No prediction so no comparison
	* Starred sour	nds were not in the input.						

/t'/ and /ch/ occur earlier and /hw/ and /xw/ occur later in Hul'q'umi'num' than predicted

Table by Kwan, B. (2022)

## Hear more, say more: 3



## Hear more, say more: 7

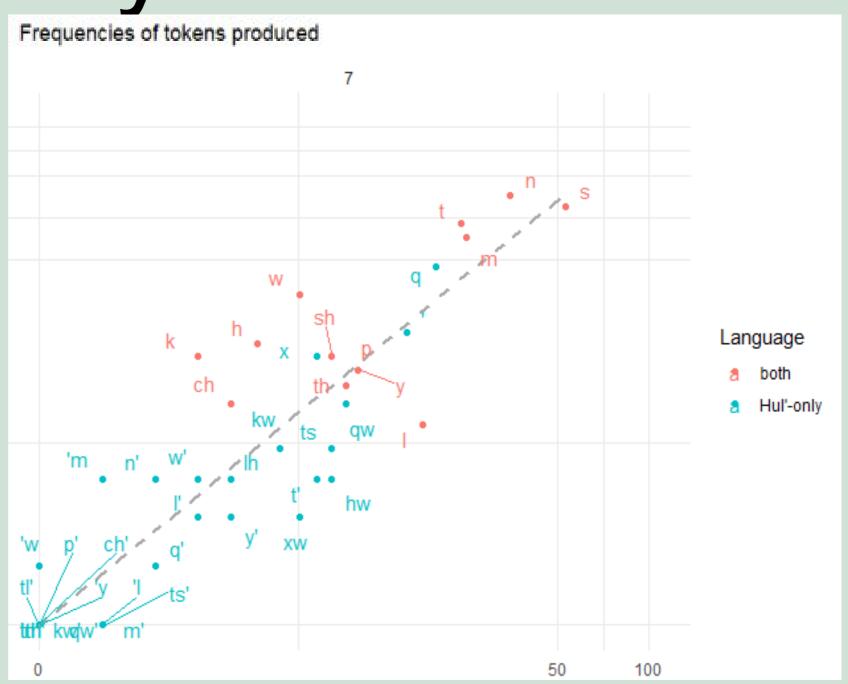
y/o

Kids mirror their models: Sounds they heard more, they said more.

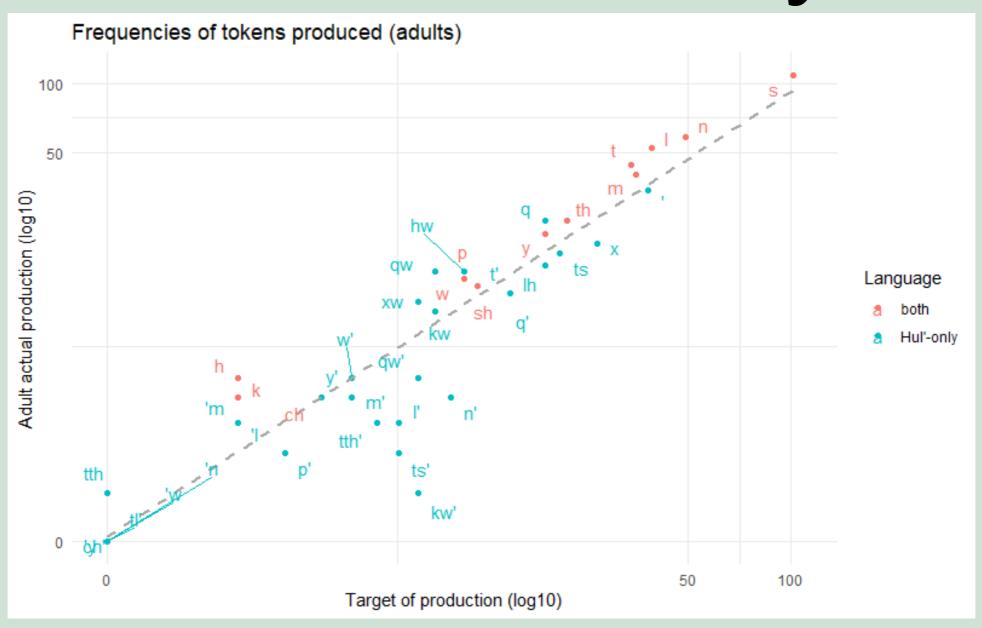
Sounds from both languages (red) still more frequent than ones from Hul'q'umi'num' only (blue)

The over-represented sounds (/ch/, /h/, /k/, /w/) becoming **more like adults**/closer to the line than for 3-year-olds.

Glottalized sounds still rare



## Adult Accuracy



More /tth/ than what they were aiming for

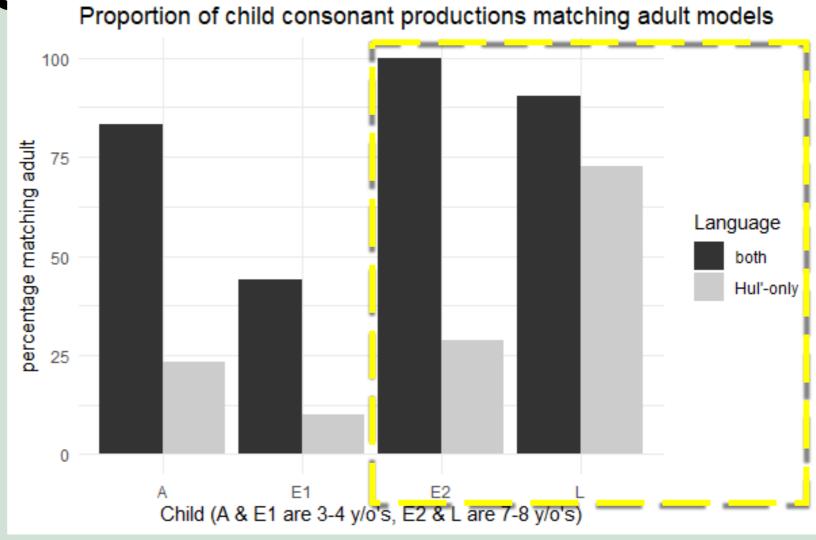
Fewer glottalized sounds than what they were aiming for (see the cluster under the line)

## Matching adult

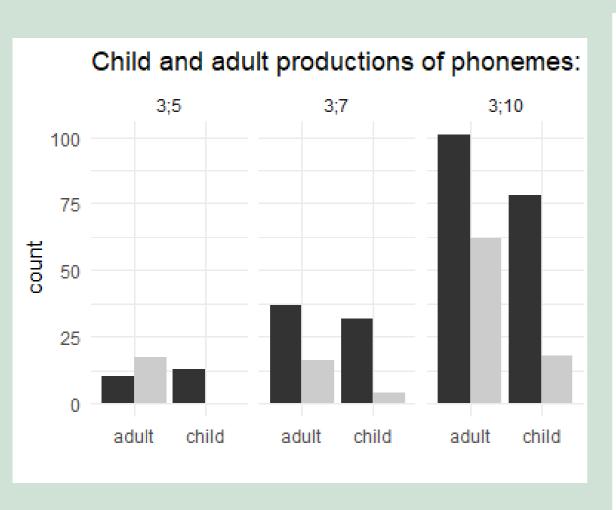
SOINGS Proportion of child conson

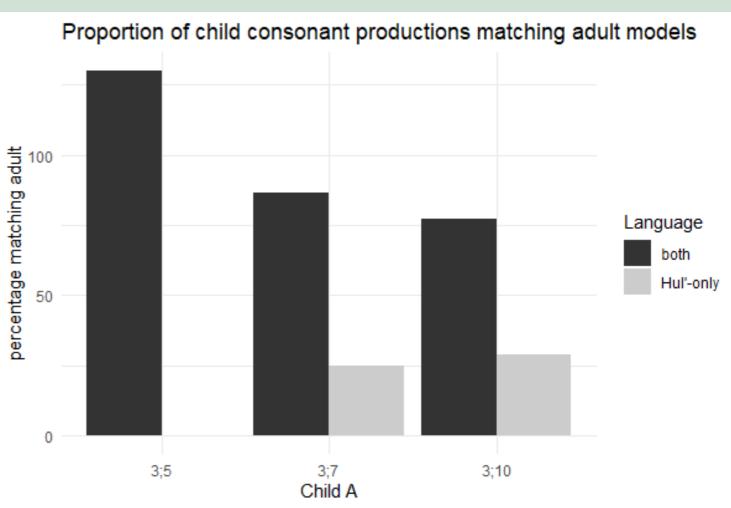
By 7 years old, exposure to Hul'q'umi'num' influences proportion of Hul'q'umi'num' only sounds produced by kids:

L is exposed to Hul'q'umi'num' more regularly than E2 and has a much higher proportion of Hul'q'umi'num' only sounds



## Growth in 5 months





In a span of 5 months (3;5 to 3:10), A went from saying no Hul'q'umi'num'-only sounds to saying 30% of those she heard!

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## What to expect

Some sounds will be harder than others! This is normal.

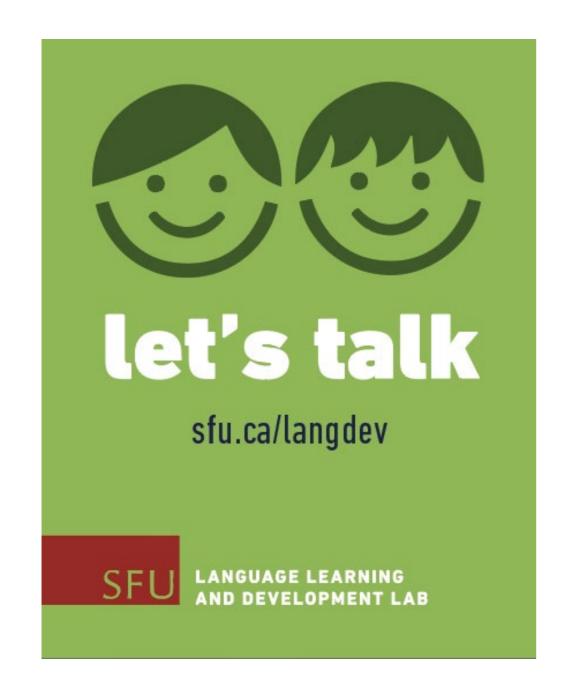
Everything is learnable over time.

Keep "input" in mind: what do your children hear?

### Discussion

Do you think pronunciation patterns will be different for adult learners? How?

What questions still need to be answered about how kids learn Coast Salish languages? (There are a lot! This is the first time this work is being done.)



# Huy tseep 'u! Thank you!

@SFULangDevLab emcclay@sfu.ca