

May 2020

**OfficeHours\_IS31\_20160428\_Seg02.pdf**

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<https://commons.library.stonybrook.edu/language-adaptation-ethnography/210>

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## Ethno Studies OfficeHours IS31 20160428 Seg02

**Participants:** IS31 (male, black hooded jacket), S1 (male, gray sweater), S2 (girl with hat), S3 (out of frame; voice only)

**Setting:** IS31 assisting S1 and S2 with practice problems for an upcoming exam

0:00

xxx IS31: I don't know that.

xxx S1: uh:

xxx no

xxx I did (know) actually

xxx IS31: [I: don't know ((shakes head))

xxx S1: [what (it) was a T

xxx the um

xxx the time expected value?

xxx IS31: ((laughs))

xxx ((quietly)) I don't know

xxx S1: the (T value)

xxx (T of X)

xxx (and then the↑) ((trails off))

xxx ((0:13-1:00 no dialogue))

xxx IS31: uh

xxx y-you (.1) you have↓ (.) nine?

xxx in sum?

xxx I mean

xxx S1: yea=

xxx IS31: =do you have more ten?

xxx S1: uh no

xxx she um

xxx submitted like nine

xxx I think nine would be the [last one.

xxx IS31: [oh ((nods))

xxx S1: wouldn't have worked ten.

xxx IS31: ((laughs))

xxx S1: ((flipping through notes)) hopefully not

xxx IS31: yea

xxx [because:

xxx S1: [now is the finals week is in that

xxx uh (.1)

xxx uh when is the homework due

xxx the ten

xxx if she give us ten,

xxx like homework ten,

xxx (is) gonna be finals week.

xxx IS31: oh

xxx S1: cause this is the last we gonna have class like

xxx next week.

xxx IS31: you will?

## Ethno Studies OfficeHours IS31 20160428 Seg02

xxx           you will not have class next week?  
xxx S1:       next week we have class. ((nods))  
xxx IS31:     oh oh [oh oh ok I know I know. ((nods))  
xxx S1:       [(it is the) last week we have class.  
xxx           ok  
xxx           can you,  
xxx           uh  
xxx           open up the  
xxx           uh  
xxx           **solutions↑ for um↑**  
xxx IS31:     [homework  
xxx S1:       [the previous (.) eight.  
xxx IS31:     eight. ((turns to laptop))  
xxx           yea=  
xxx S1:       =yea=  
xxx IS31:     =this is the ((looks up))  
xxx S1:       I have a question for six point six?  
xxx           ((gets pen and paper ready))  
xxx           ((pause))  
xxx IS31:     ((opens textbook))  
xxx           six point six?  
xxx S1:       yea. (.2)  
xxx           ((points to screen))  
xxx           the ((incomprehensible)) question  
xxx           go there  
xxx           I will show you something.  
xxx           (pause))  
xxx IS31:     ah  
xxx S1:       h:ow? do they get 1500 here  
xxx IS31:     mm:  
xxx           let me see. (.2)  
xxx           uh  
xxx           ((incomprehensible)) <standard deviation>.  
xxx S1:       you put- you put it (the) standard deviation  
xxx           right?  
xxx IS31:     yea  
xxx           so  
xxx           you know the: variants (.) is twenty-five.  
xxx S1:       so it's gonna come,  
xxx           yea  
xxx           twenty-five,  
xxx           but variants twenty-five  
xxx IS31:     [yea ((nods))  
xxx S1:       [but then if I want to uh put that with the formula  
xxx           right?  
xxx           it's gonna be (.)  
xxx           um:  
xxx IS31:     twenty-five [minus pi  
xxx S1:       [uh

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx n square,  
xxx uh  
xxx and (the) standard deviation.  
xxx which is=  
xxx IS31: =no  
xxx no  
xxx n-n-not n square.  
xxx just ((incomprehensible)) (profiling invariants).  
xxx S1: ((pause))  
xxx ((flips page in notebook and shows IS31))  
xxx like this (.) right here.  
xxx IS31: ((pause))  
xxx (reads))  
xxx oh  
xxx **th- this↑ is for the:**  
xxx yes  
xxx this is uh:  
xxx standard deviation of (.1) the  
xxx I mean  
xxx mm:  
xxx the sum of s ((incomprehensible))  
3:00  
xxx right?=  
xxx S1: =mhm  
xxx IS31: this one  
xxx and you'll want to get (merit) so you just need (.1)  
xxx ((looks at S1's notes))  
xxx to ((incomprehensible))°  
xxx **but how↑ do you get this?**  
xxx S1: that's what I [(would like))  
xxx IS31: [((incomprehensible))  
xxx S1: (is this ab squared)  
xxx like  
xxx [what is  
xxx IS31: **[ok so:↑**  
xxx and to get a variance you need to take (.)  
xxx ((takes out calculator))  
xxx the: twice power of that  
xxx [(that)  
xxx S1: [this one?  
xxx IS31: **yea↑**  
xxx S1: oh  
xxx IS31: so (.)  
xxx like (.1)  
xxx like this is:  
xxx uh  
xxx approximate (.1) one hundred  
xxx S1: (one seven (.) two nine) [ok  
xxx IS31: [yea

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx but I think you- you better use this directly  
xxx so there will be no error.  
xxx because  
xxx if you use this number there is a (running) error.  
xxx S1: but it's zero anyway.  
xxx IS31: eh?  
xxx S1: then I get the same answer  
xxx like if I use [that one  
xxx IS31: [ok  
xxx ok  
xxx [yea yea yea  
xxx S1: [(and the value)  
xxx **look at here↓**  
xxx and like  
xxx I didn't use the [fifteen thousand right?  
xxx IS31: [ok  
xxx be-because  
xxx because they are- they are near to each other (.2)  
xxx yea°  
xxx you can just use this.  
xxx ((leans in and reads S1's notes))  
xxx because the square root of (.1) uh one thousand (.)  
xxx five hundred is  
xxx uh  
xxx near to this (.) number,  
xxx so  
xxx S1: oh  
xxx so I don't need to use this square root here as well.  
xxx IS31: yes. (.3)  
xxx because you are always-  
xxx you should always divide the: standard deviation  
xxx right?  
xxx you can get the standard deviation depending on if  
xxx the variants and [((incomprehensible))  
xxx S1: [>so the variants<  
xxx >if I want a variants<  
xxx right  
xxx this is the variants  
xxx IS31: so the variants is  
xxx is this way ((shows S1 textbook))  
xxx ((indistinguishable))  
xxx the original variants  
xxx S1: oh  
xxx the variants  
xxx if I get it the variants  
xxx ok.  
xxx so it just multiplies with this ok.  
xxx where they square it  
xxx right?

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx IS31: yea  
xxx so  
xxx they are: (.1)  
xxx t-they are the same,  
xxx S1: so even if I do  
xxx like  
xxx sixty (.1)((types into calculator))  
xxx sixty multiply twenty-five, (.1)  
xxx fifteen hundred  
xxx IS31: yea  
xxx and get square root (.)  
xxx it's<sup>o</sup> same as this  
xxx one<sup>o</sup>  
xxx S1: ((erases markings)) so I can change it here  
xxx ((rewrites)) I can (put in the) square here right? (.3)  
xxx and square here,  
xxx IS31: mm:  
xxx yea  
xxx you can do that  
xxx but:  
xxx uh  
xxx it's the same as you did it by standard deviation  
xxx IS31: yea  
xxx S1: yea  
xxx (so it's) twenty-five,  
xxx then it's gonna be:  
6:00  
xxx ((5:15-7:11 no dialogue; S1 occasionally mumbles to  
xxx himself))  
xxx S1: ((moves laptop screen so IS31 can see))  
xxx ((reads over question and mumbles to himself))  
xxx how do you do this  
xxx IS31: what which one  
xxx this one?  
xxx S2: ((enters room and sits next to IS31 out of frame))  
xxx IS31: ((looks up at S2))  
xxx ((incomprehensible))  
xxx S2: (hi)  
xxx IS31: ((reads question and mumbles))  
xxx uh  
xxx which part  
xxx part eight?  
xxx S1: ((nods)) yea  
xxx IS31: uh:  
xxx you-  
xxx uh have you ever learn this chapter seven?  
xxx S1: ((nods)) yea  
xxx IS31: but  
xxx so:

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx you should know: that (.) you can just(uh):  
xxx ((saying "just" but elongates by adding uh))  
xxx u-use the:  
xxx m: (.2)  
xxx you use a [((incomprehensible))  
xxx S1: [estimate (.) right here?  
xxx IS31: yea  
xxx ((incomprehensible)) to estimate (.1)  
xxx ((looks around))  
xxx S3: ((to S2 out of frame)) are you a student? (.1)  
xxx >or [a TA<  
xxx S2: [yea  
xxx IS31: to estimate (the meaning of) ((incomprehensible))  
xxx S2: student  
xxx IS31: I- I think she have (.1) signed before  
xxx S3: have you=  
xxx S2: =yea  
xxx S3: have you seen us before?  
xxx and you have given us [consent [before?  
xxx S2: [mhm  
xxx [mhm  
xxx S3: so she's good.  
xxx ok  
xxx S1: like  
xxx (is this)  
xxx ((incomprehensible)) ((because of cough))  
xxx ((stammers)) example of the ((incomprehensible)) of mu  
xxx x one and seven point one ((incomprehensible))(.3) [x  
xxx IS31: [so:  
xxx S1: so this is the ((incomprehensible))  
xxx right?  
xxx IS31: yes  
xxx the- the  
xxx the idea is just to use the ((incomprehensible))  
xxx to estimate the (.)  
xxx mean of the population  
xxx and use the sample variants to estimate the  
xxx variants of the population.  
xxx ((mumbles))  
xxx S1: the variants,  
xxx you mean?  
xxx IS31: yeah ((leans over to computer))  
xxx S1: is (the mean)  
xxx right?  
xxx IS31: uh: yes (.2)  
xxx S1: but  
9:00  
xxx (be are not) given the data  
xxx (I don't know)°

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx IS31: ((points to screen)) first you can calculate the mean  
xxx of this (.) six number right?  
xxx S1: ((nods)) altogether  
xxx the-  
xxx so whe-  
xxx (n-not here)  
xxx IS31: uh  
xxx S1: (this homework nine) (.2)  
xxx IS31: so first you get the: sample mean.  
xxx S1: [oh  
xxx IS31: [(and then you just)  
xxx (you can add)  
xxx S1: [then one two three four five six  
xxx then divide it with  
xxx um  
xxx the previous (homework like we [had)  
xxx IS31: [yea  
xxx and uh  
xxx you just use this number (.) a- a- as the estimation of the  
xxx [(sample size)  
xxx S1: [how bout this one?  
xxx IS31: ah?  
xxx which one?  
xxx S1: ((pause))  
xxx ((shows IS31)) this one  
xxx x square  
xxx IS31: oh this is  
xxx uh:  
xxx (matter) to calculate the variance,  
xxx do you remember that I think?  
xxx uh it's included in: chapter: (.) one or two or  
xxx something.  
xxx S1: the x square  
xxx uh  
xxx of these a- all numbers=  
xxx IS31: =yea yea yea  
xxx the square  
xxx square of (ten) plus [square of  
xxx S1: [and this is the x  
xxx so this is  
xxx what  
xxx nine point=  
xxx IS31: =yea  
xxx you ((incomprehensible))  
xxx S1: (over sixty)  
xxx (how did we get fifty-eight  
xxx IS31: hm:  
xxx S1: ((points to screen)) this one it's x  
xxx right?



xxx (only).  
xxx so:  
xxx IS31: yea  
xxx S1: this is all fifty-eight  
xxx IS31: yes  
xxx S1: ((points at screen)) eighteen  
xxx uh  
xxx eighteen (.2) then  
xxx uh  
xxx twenty-nine,  
xxx IS31: yea the sum of this six number is (.) fifty-nine.  
xxx fifty-eight.  
xxx S1: ((typing on calculator)) eight plus (.) nine plus (.)  
xxx seven plus (.) eleven plus (.) thirteen (.1)  
xxx yea  
xxx it's fifty-eight  
xxx IS31: hm:  
xxx you ↑can use  
xxx you c- also use this formula  
xxx they are equivalent to each other  
xxx but ((points to screen)) maybe this one is more easy  
xxx to calculate.  
xxx S1: ((nods))  
xxx IS31: yea  
xxx S1: yea  
xxx this is easier  
xxx IS31: e-either  
xxx [either is OK  
xxx S1: [uh yea  
xxx cause if you  
xxx uh  
xxx figure it out this one so you get that number  
xxx [then get that  
xxx IS31: [yea yea yea  
xxx S1: just as we use that from (the) before.  
xxx IS31: mhm  
xxx ok  
xxx so th-this is a: (.) estimate[(.)tion of  
xxx S1: [can I take a picture?  
xxx ok the standard deviation  
xxx S1: ((takes photo of screen with his phone))  
xxx IS31: (homework)  
xxx not,  
xxx is due (.) today?  
xxx S1: ((shakes head))  
xxx I'm n[: ((thinking))  
xxx IS31: [next week?  
xxx S1: next week ((nods))  
xxx next Thursday°

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx ((11:16-11:40 no dialogue))  
xxx S1: they have some (.) like math over here,  
xxx like if you really don't know what's going on,  
xxx if you're lost  
xxx then so many things that (.1)  
xxx IS31: m[:  
xxx S1: [sometime it's like (.)  
xxx **it their mistake**↑  
xxx IS31: yes  
xxx S1: but it's not like  
xxx uh  
xxx I was doing like ((incomprehensible)) yesterday like  
xxx in the morning,  
xxx like  
xxx me and my friend  
xxx I was like  
xxx you know what  
xxx this is kinda like really (.) hard  
12:00  
xxx then we went to bed like three o'clock  
xxx I was like ((incomprehensible))  
xxx IS31: ((laughs))  
xxx S1: and he's like  
xxx ok lemmie know what you get  
xxx I was like ok°  
xxx IS31: ah:  
xxx [yea  
xxx S1: [cause I had a class like 8:30 in the morning  
xxx then he came in [and >was like<  
xxx IS31: [well-  
xxx S1: do you wanna go to see a TA?  
xxx and then he crashed on the bed  
xxx he said  
xxx I'm so tired ((incomprehensible))  
xxx IS31: ((laughs)) ok [so  
xxx S1: [so it's like three of us  
xxx like  
xxx all studying together.  
xxx IS31: ((turns to S2))  
xxx S2: how do you do thirteen?  
xxx IS31: ((reads question and mumbles to himself))  
xxx oh (.1)  
xxx so:  
xxx **this x is the sum of** ↑mean  
xxx and uh:  
xxx do you know how to get the: (.2)  
xxx m  
xxx I mean mean of variants?  
xxx of sum of mean?

xxx S2: m: ((points to page))  
xxx IS31: uh yes  
xxx yea  
xxx so the (.) mean is (.)  
xxx the same as the correlation bit  
xxx right?  
xxx S2: mhm↑=  
xxx IS31: =so:  
xxx [if that is ((incomprehensible))  
xxx S2: [((incomprehensible))  
xxx ((points at page))  
xxx IS31: yea  
xxx and the-  
xxx uh:  
xxx standard deviation of (.) x ((incomprehensible)) is  
xxx the original standard deviation divided by (.) the  
xxx square root of n.  
xxx (.3)  
xxx S2: um: ((points to page))  
xxx [so you mean nine?  
xxx IS31: [the original-  
xxx yea.  
xxx n is nine  
xxx and the original standard deviation is (.1) fifty  
xxx S2: ((writing))(.3) so° fifty over three?  
xxx IS31: yea  
xxx so you get the mean and the (.) standard deviation.  
xxx and there is (a) normal distribution.  
xxx so you can calculate this probability.  
xxx use uh (.) from your:  
xxx ((flips through textbook))  
xxx ((shows page to S2)) like this  
xxx like this  
xxx if you have (use that) many times°  
xxx S2: ((writes down notes))  
xxx IS31: this is  
xxx uh  
xxx standard (normal distribution)  
xxx S2: so: (.1)  
xxx this one?  
xxx five hundred (.) minus  
xxx IS31: five hundred fifty  
xxx S2: 550, (.) over this one  
xxx right?  
xxx IS31: yes.  
xxx ((14:05-14:58 no dialogue))  
xxx S2: was it?  
xxx ((shows IS31 her solution))  
xxx (this (.) answer?)°

15:00

xxx hm:  
xxx IS31: ((looks over at laptop))  
xxx ((pause))  
xxx yea  
xxx one point eight<sup>↑</sup> and minus [((incomprehensible))  
xxx S2: [((incomprehensible))  
xxx IS31: yes ((nod))  
xxx S2: ((pause))  
xxx if it's (.) simple as nine,  
xxx then probability that  
xxx five of them  
xxx then how do you do?  
xxx IS31: uh:  
xxx so (.2)  
xxx ((reads question and mumbles))  
xxx uh: (.2)  
xxx ok so  
xxx first you should find the  
xxx the (probability) that \*(.1)  
xxx uh each person is (heavier) than (.1)  
xxx five hundred sixty  
xxx ((looks at S2 for confirmation))  
xxx ((looks back down)) because we know the (original)  
xxx distribution.  
xxx the mean is five hundred and (.) [fifty,  
xxx S2: [mhm  
xxx IS31: standard deviation is (.) uh fifty.  
xxx S2: mhm  
xxx IS31: so you can calculate the probability that (.) one person  
xxx is heavier than ((points at page)) this  
xxx it's similar to part A  
xxx just minus the five hundred fifty and divide it by  
xxx fifty  
xxx S2: uh  
xxx what is it?  
xxx IS31: uh: ((brings laptop closer))  
xxx (you can see this)(.1) uh: (.1)  
xxx so your part A  
xxx you're just minus [the ((incomprehensible)) divided by the  
xxx S2: [mhm]  
xxx IS31: [standard deviation  
xxx S2: [mhm  
xxx IS31: so in this way it's similar.  
xxx so you want to find the probability that x is greater  
xxx [than this number so it gets to  
xxx S2: [mhm ((nods))  
xxx and then what does it mean  
xxx like

Ethno Studies OfficeHours IS31 20160428 Seg02

xxx five=  
xxx IS31: =uh  
xxx ok  
xxx so  
xxx then even though the probability that each person is (.)  
xxx heavier than this  
xxx right  
xxx S2: heavier than ((asking))  
xxx IS31: uh  
xxx f:ive hundred=  
xxx S2: =sixty?  
xxx IS31: yea  
xxx so  
xxx every person have the same probability  
xxx S2: mhm  
xxx IS31: and uh  
xxx you have nine,  
xxx so it's  
xxx uh  
xxx binomial, (.) distribution ((gestures with hands))  
xxx S2: ((nods))  
xxx IS31: that every person have this probability (and they are  
xxx not)  
xxx so  
xxx and that they are independent of each other  
xxx S2: mm:  
xxx IS31: so you can just use (the) binomial formula to  
xxx calculate.  
xxx S2: what if it's  
xxx like  
xxx probably that six of them,  
xxx or seven of them,  
xxx IS31: eh:  
xxx S1: [it's the same?  
xxx IS31: [it's- it's the same  
xxx yea  
xxx just nine (.) to five ((incomre[hensible]))  
xxx S2: [m:  
xxx ((leans toward laptop))  
xxx you subtract (.) mean and then  
xxx IS31: divide by sta[ndard deviation.  
xxx S2: [standard deviation°  
xxx IS31: and get this p.  
xxx so it's just the p in binomial distribution.  
xxx S2: hm:  
18:00  
xxx ((17:39-18:02 no dialogue))  
xxx S1: I can use this formula too right?  
xxx ((points to notebook))

xxx           like this.  
xxx           ((pause))  
xxx           ((solves solution as IS31 watches))  
xxx IS31:   ↑what does this mean (.) fx  
xxx S1:       ((turns page))  
xxx           the standard deviation  
xxx           you can get it from  
xxx           ((points to page))  
xxx IS31:   uh:  
xxx S1:       the variants,  
xxx  
xxx IS31:   a-actually  
xxx           this is to calculate the (.) standard deviant of some  
xxx           (.) distribution  
xxx S1:       ((nods while still looking down at notebook))  
xxx IS31:   I mean  
xxx           this is just a ((incomprehensible))=  
xxx S1:       =yea  
xxx           so we have to  
xxx           i- instead like  
xxx           if we wanna get this standard deviation  
xxx           right?  
xxx           [ ((incomprehensible)) ]  
xxx IS31:   [yea I know I know  
xxx           b-but  
xxx           this is just  
xxx           in this case we just get no (assemble)↓  
xxx           (they are) only six numbers↓  
xxx S1:       ((nods))  
xxx IS31:   so:  
xxx           there's no fx  
xxx           we don't know fx.  
xxx S1:       ((still looks perplexed but nods))  
xxx IS31:   so:  
xxx           th-the:  
xxx           the formula just says that (.) we calculate the (.) sum of  
xxx           squares  
xxx           and minus (.) the  
xxx           oh  
xxx           how to say ((laughs))  
xxx S1:       [yea  
xxx IS31:   [t-the sum  
xxx S1:       [(the summation)  
xxx IS31:   [yea  
xxx           summation  
xxx           the sum  
xxx           the square of the sum  
xxx S1:       ok  
xxx IS31:   divided by n

xxx and divided b-  
xxx so this is  
xxx the:  
xxx somewhere to calculate the sample variants  
xxx S1: ((nods))  
xxx IS31: sample variants is different from  
xxx uh  
xxx like population variants  
xxx because even though fx  
xxx S1: no  
xxx uh  
xxx yea  
xxx we don't know fx  
xxx cause (.) go on there,  
xxx like six point ten, ((points to IS31's laptop))  
xxx ((incomprehensible))°  
xxx IS31: ((looks at laptop))  
xxx oh  
xxx [b-but in  
xxx S1: [((incomprehensible))  
xxx IS31: but in this case  
xxx we know the fx is one over four for each x.  
xxx so this is a distribution of (.1) the population.  
xxx S1: got you  
xxx so how do we then figure (it out this one))  
xxx IS31: uh  
xxx S1: ((lifts laptop and notebooks))  
xxx (where the heck did I put my eraser now)  
xxx ((pause))  
xxx IS31: oh ((reaches down to pick up eraser))  
xxx S1: thank you