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**OfficeHours\_IS31\_20160428\_Seg01.pdf**

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**Participants:** IS31 (black hooded jacket), S1 (glasses), S2 (SBU hat)

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

0:00

xxx IS31: hm: (.2)  
xxx so (.)  
xxx the (mean) that  
xxx uh: (.2)  
xxx the proble-  
xxx this same square is a (population of variants)  
xxx right?  
xxx S1: ((nods)) mhm  
xxx IS31: you have know that.  
xxx and you have a sample.  
xxx a sample size,  
xxx (it's n).  
xxx S1: mhm  
xxx IS31: and uh:  
xxx so  
xxx we know (.) that (.) the: th-  
xxx uh:  
xxx ↑this s square is a:  
xxx mm:  
xxx [(variants) of the sample,  
xxx S1: [(variants)?  
xxx ((nods))  
TTF IS31: and uh  
TTF uh:  
TTF yea yea  
TTF you don't know,  
TTF you don't need to know the:  
TTF uh:  
TTF I mean:  
TTF (induction)  
TTF uh  
TTF how to get this (from there) (.) but  
xxx I1: [alright  
Xxx IS31: [(it says) that this formula,  
xxx will (.) be a (.) chi square distribution random variable  
xxx because we know that s square, is a random variable,  
xxx right?  
xxx S1: that's just like the definition of chi square?  
xxx [(yea?)  
xxx IS31: [(laughs)) ok yea  
xxx you can just remember it  
xxx so this- this will

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xxx uh: be a chi square distribution.  
xxx S1: uh-huh  
xxx IS31: and uh:  
xxx for example we want to find the probability like (.)  
xxx (that the) variants is (.) greater than this (product).  
xxx S1: ((nods)) OK=  
xxx IS31: =so we just do this  
xxx uh  
xxx **↑(judgement)**  
xxx and (gather) this (.) chi square  
xxx S1: [alright  
xxx IS31: [and we can find it in the chi square table,  
xxx [(finally prepared)  
xxx S1: [(I think I understand it now).  
xxx yea.  
xxx IS31: yea.  
xxx S1: thank you.  
xxx ((begins packing up binder))  
xxx yea  
xxx this is all I had.  
xxx IS31: mm:,  
xxx (if you want can use our, there is)  
xxx ((points to something on table))  
xxx (one software (.) in my computer) ((slightly laughs))  
xxx you can use that.  
xxx S1: [uh  
xxx IS31: [you didn't implement it before?  
xxx S1: ((shakes head)) no  
xxx IS31: ((nods)) ok  
xxx I think you better (.) get it  
xxx it's free,  
xxx [and-  
xxx S2: [(uh for (.) the last part? (.)part b))  
xxx IS31: yea  
xxx S2: uh (.) it used, (.1)  
xxx ((incomprehensible))  
xxx IS31: what?  
xxx S2: yea ((points at paper))  
xxx IS31: yea yea yea  
xxx S2: and then-  
xxx IS31: (it's a) function  
xxx ((incomprehensible))°  
xxx S1: yea  
xxx I'll just do the other thing, later today,  
xxx I've got tests in like an hour and a half that I'm  
xxx **I wanna study for↑**  
xxx S2: [are you taking [304?  
xxx IS31: [ok ((only looking at S1))  
xxx S1: 304 yea. ((to S2))

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xxx S2: ((indistinguishable))  
xxx S1: ((laughs))  
xxx S2: I-I under-  
xxx underestimated (.) this midterm.  
xxx S1: ((laughs)) oh yea=  
xxx S2: =there's so many (.) there's so many stuff.=  
xxx S1: =yea  
xxx there's actually (a lot)↑  
xxx IS31: hm:  
xxx h- have you,  
xxx used the- the chi square table before?  
xxx S1: ((shakes head no))  
xxx IS31: uh:↓  
xxx ok  
xxx I-I need to tell you that (.)  
xxx first thing you need to determine is uh:  
xxx uh  
xxx degree of freedom  
xxx S1: ((nods))  
xxx IS31: [so you-  
xxx S1: [and minus one?  
xxx IS31: yea yea  
xxx and minus one  
xxx yea  
xxx you know that ((laughs))  
xxx that's good.  
xxx ((reads over textbook))  
xxx ((2:26-2:49; no dialogue))  
xxx IS31: ((glances over at S2's laptop))  
xxx oh↓  
xxx gone?  
xxx no it's-  
xxx it's ((laughs)) different from a mac  
xxx S2: ((incomprehensible))°  
xxx IS31: yea.  
xxx ((2:56-3:35; no dialogue))  
3:00  
xxx S2: I ↑think I read the problem wrong  
xxx ((laughs))  
xxx IS31: ((leans toward laptop screen))  
xxx which problem  
xxx S2: number seven.  
xxx ((mumbling))  
xxx IS31: hm?  
xxx but you:=  
xxx S2: (yea I did)  
xxx IS31: you ((incomprehensible)) this↑  
xxx ((incomprehensible))°  
xxx ((talking to himself))

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xxx S2: (I have this subject)  
xxx ((incomprehensible))°  
xxx IS31: [oh!  
xxx S2: [it's this thing that I  
xxx IS31: so  
xxx it's asking about  
xxx uh: (.1)  
xxx (variants exceed)↑  
xxx ((looks at S2))  
xxx S2: yea  
xxx IS31: so it's (probably that this is greater than)  
xxx [((incomprehensible))  
xxx S2: [((incomprehensible))° ((reading to self))  
xxx S2: yea  
xxx I made a mistake.  
xxx IS31: that doesn't matter  
xxx (it just need to use more runners)=  
xxx S2: =yea  
xxx IS31: (that's)°(.) ((nods))  
xxx S2: ((flips through packet))  
xxx ((incomprehensible))° ((talking to self))(.3)  
xxx thank you very much.  
xxx ((stands up))  
xxx IS31: ((nods))