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OfficeHours\_IS4\_20160428\_Seg02.pdf

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**Setting: quiet classroom.**

**Participants: I1 (black sweater, female), IS4 (maroon sweater), I2 (female, behind camera)**

0:00

XXX I1: ok  
XXX nice to meet you.  
XXX ((both laughs))  
XXX um can you say your name again?  
XXX IS4: uh  
**XXX**  
XXX I1: s- [Su?  
XXX IS4: [Sih  
XXX Sih (.) wu  
XXX I1: [Suh, (.) s- ((both laugh))  
XXX [Su↑ (.) wu  
XXX IS4: [Sih↑ ((mouths wu))  
XXX [yea ((nodding))  
XXX I1: [can you spell it?  
XXX IS4: uh s i w  
XXX I1: s [i (.) w  
XXX IS4: [i (.) w  
XXX yea  
XXX I1: ((mouths o))  
XXX and then (.)  
XXX how do you spell your last name?  
XXX IS4: uh° my last- uh:°  
XXX l i u  
**XXX** -,  
XXX I1: oh: Yu:  
XXX IS4: [yea  
XXX I1: [oh (.) ok  
XXX ok  
XXX my name is Krystal (Aliez)  
XXX uh  
XXX I'm a freshman  
XXX IS4: freshman?  
XXX [oh  
XXX I1: [yes  
XXX the only math class I've taken is AMS102,  
XXX IS4: ((nods and laughs slightly))  
XXX I1: so that's what  
XXX introductory stats, (.1)

XXX and that was like last semester  
XXX so:  
XXX this- this is going to be a written ((incomprehensible))  
XXX right now=  
XXX IS4: =oh ok°  
XXX I1: um  
XXX but I'm a double major in psychology and (.)  
XXX Asian and Asian American Studies, (.1)  
XXX fun fact I'm learning Japanese  
XXX IS4: wow  
XXX I1: yea=  
XXX IS4: =great  
XXX I1: ((laughs))  
XXX are you: an undergraduate student? (.1)  
XXX [or  
XXX IS4: [no  
XXX I-I'm graduate  
XXX I1: you're- you're a graduate student?  
XXX IS4: yea  
XXX I1: ((mouths oh))  
XXX what-  
XXX so you go to a masters school here?  
XXX IS4: [uh (no)  
XXX I1: [graduate school  
XXX you go to a graduate school here?=  
XXX IS4: =I'm a PhD  
XXX I1: ((puts hands on her cheeks))  
XXX ((whispers)) so fancy  
XXX IS4: ((smiles))  
XXX ((whispers)) oh  
XXX ok  
XXX IS4: ((both laugh))  
XXX I1: what are you studying?  
XXX IS4: uh  
XXX AMS  
XXX applied math and (.) statistics  
XXX I1: oh  
XXX like what specifically?  
XXX IS4: uh  
XXX specifically (.1)  
XXX **computational**↑  
XXX or like  
XXX computational applied math  
XXX (just) coding things  
XXX I1: [oh ok that's fancy stuff

XXX IS4: [you (.) you- you use computer to: (.)  
XXX to solve equations  
XXX ((inaudible))  
XXX I1: ((nods))  
XXX ok=  
XXX IS4: =yea  
XXX I1: so that's that stuff  
XXX IS4: [yea  
XXX I1: [ok  
XXX ok  
XXX now down to the fun stuff  
XXX ok  
XXX so (.1)  
XXX how should I start this,  
XXX um:,  
XXX so I wanna understand what the (.)  
XXX can- can you say this ((points at paper))  
XXX I1: yea ((looks at paper))  
XXX IS4: Gaussian distribution=  
XXX I1: =Gaussian?  
XXX IS4: yea:=  
XXX I1: =Gaussian↑ (.) distribution?  
XXX ((IS4 nods))  
XXX but I know it's related to the Central Limit Theorem,  
XXX IS4: [ok  
XXX I1: [right,  
XXX IS4: [y- y- you know  
XXX I1: [can you explain the Central Limit Theorem please?  
XXX first ((laughs))  
XXX IS4: central? (.) I think (.1)  
XXX I-I think that Gaussian Distribution is the:  
XXX is a fundamental concept  
XXX and then it comes to like Central Limits=  
XXX I1: oh ok  
XXX IS4: so:-  
XXX I1: so Gaussian Distribution first  
XXX ok  
XXX IS4: yea gau- ((reads paper mummering))  
XXX I1: if it's easier you can explain this first then  
XXX if it (.2) if it's more basic  
XXX IS4: oh the Gaussian Distribution (.1)  
XXX m:  
XXX a probab-  
XXX uh: first you should know what a probability  
XXX distribution is

XXX it is like (.1)  
XXX uh: a probability distribution is: (.1)  
XXX uh let me see° (.2)  
XXX uh it's a probability of all the- all the possible outcomes  
XXX (.) [of something  
XXX I1: [ok  
XXX ((nods))  
XXX IS4: uh:  
XXX for example if y- if you toss a coin (.)  
XXX I1: [mhm  
XXX IS4: [it will be head or tail  
XXX I1: ((nods))  
XXX IS4: and the:n the: (.)  
XXX th- they will assume that the coin is (.) uh  
XXX is even  
XXX I1: [mhm ((nodding))  
XXX IS4: [and uh  
XXX it uh-  
XXX .hhh  
3:00  
XXX and the:  
XXX the probability to be: head is (.) one over two- half  
XXX one half  
XXX and the probability be:  
XXX uh: (.1) tail  
XXX it's (.) also (.) one half°  
XXX I1: [mhm  
XXX IS4: [and we can see that the distribution of the- of the- of  
XXX this (.) this event  
XXX uh:  
XXX tossing a coin (.)  
XXX is one half one half  
XXX I1: ((nods)) ok=  
XXX IS4: =this is distribution  
XXX and the Gau- Gaussian distribution is (.)  
XXX is bac- is basically the same  
XXX it is just the number is different  
XXX but (.) but it is (.) also a distribution  
XXX you can: (.) uh (.)  
XXX you do something and  
XXX the different outcomes (.) have different probabilities  
XXX and Gaussian Distribution is very (.)  
XXX .hhh is a- is the most common distribution that (.) you can  
XXX see in a (nature)  
XXX I1: ((mouthes o))

XXX [can I get an example  
XXX IS4: [like- like the:  
XXX height distr- height  
XXX I1: [mhm  
XXX IS4: [the: height of a person  
XXX (.1)  
EXC uh:  
EXC for example like  
EXC uh: if-  
EXC uh:  
EXC in human beings like- like  
EXC uh:  
EXC one (.) one point<sup>↑</sup> sevent- for example°  
XXX one point seventy five<sup>↑</sup> (.2) meters,  
XXX I1: [ok  
XXX IS4: [is the-  
XXX i- i- i- is the most possible height for man,  
XXX and then one point seven five<sup>↑</sup>  
XXX and one point seven six will be a little (.1) s-  
XXX uh: will have a little smaller number  
XXX I1: ((nods)) mhm  
EXC IS4: and then, (.1)  
EXC point seventy- point seventy:  
EXC one point seventy (.) three  
EXC and one point seventy (.2)  
EXC uh::  
EXC ((mouths words))  
EXC seventy  
EXC h- h- have a-°  
EXC a smaller number than: (.) than both  
EXC and you will get (.)  
EXC I think  
EXC ((looks around for something))  
EXC uh  
EXC can I- can I draw a picture?  
XXX I1: ((looks at I2 behind camera))  
XXX can we (.) draw on this,= ((holding paper up))  
XXX I2: =yea (.) sure  
XXX IS4: [ok  
XXX I1: [ok  
XXX you can draw on this ((places paper back down))  
XXX IS4: you will find (.) the distribution will become (.) this way  
XXX ((draws curve on paper))  
XXX I1: mhm  
XXX IS4: so

XXX the probability to be like (.)  
XXX one point (.1) will be the most probab-  
XXX uh:  
XXX possible things  
XXX [so  
XXX I1: [because it's average?  
XXX IS4: yea  
XXX it- maybe it's average yea  
XXX I1: [ok  
XXX IS4: [so  
XXX it's something:  
XXX yea  
XXX it's average (.) and  
XXX and the other  
XXX the other middles  
XXX the other parts will be a:  
XXX a smaller (.) possibility  
XXX and then (.) and of course (.) this  
XXX if- if- if a man is like (.) one point one meters  
XXX or like  
XXX one point (.) four: meters  
XXX it will be-  
XXX (.2) there will be a very small (.)  
XXX probability for:  
XXX I1: mhm=  
EXC IS4: =f-for another to be in th-  
EXC in: in this (cut)  
EXC so  
EXC th- the Gaussian distribution is a- is a distribution to  
(.)  
EXC describe this kind of (.)  
EXC this kind of things  
EXC it- it gives you a:  
EXC it gives you a probability of-  
EXC of a: of an- an event  
XXX I1: ((nods)) mhm  
XXX IS4: so:  
XXX and you can draw picture of this  
XXX I1: [ok  
XXX IS4: [it is a Gaussian Distribution=  
XXX I1: so:  
XXX events (.) with probabilities that can be: (.)  
XXX illustrated↑ with this?  
XXX IS4: yea [yea  
XXX I1: [kind of graph is what you call something with a

XXX Gaussian (.)  
XXX [Distribution?  
XXX IS4: [yea ((nods))  
XXX Gaussian Distribution  
XXX I1: ((whispers)) math  
XXX wow  
6:00  
XXX ((chuckles))  
XXX IS4: ((smiles))  
XXX I1: ok ok  
XXX that's- that's like the basic (.) concept?  
XXX [right?  
XXX IS4: [((nods)) yea  
XXX IS4: yea  
XXX IS4: m: so  
XXX in (.) >Gaussian Distribution is important because 1-<  
XXX it can be seen in:  
XXX in (nature very) (.)  
XXX very different aspects ((incomprehensible))  
XXX and  
XXX ((flips paper to read something))  
XXX so: the Central Limit Theorem (.1)  
XXX that means: (.1)  
XXX that is (.) another amazing theorem  
XXX because  
XXX uh  
XXX you know,  
XXX different things have different distributions  
EXC but if you do-  
EXC if you do a (.1) uh let me see  
EXC how to put this  
EXC ((mumming to himself))  
EXC ((pause as he thinks))  
EXC uh:  
EXC ((pause))  
EXC yea (.2)  
EXC so  
EXC (.3)  
EXC ((preparing pen and paper))  
EXC there are some things that are (.) that- that are nor-  
EXC that are not-  
EXC uh  
EXC obe- obeying the Gaussian-  
XXX ((looks off camera distracted, I1 looks too))  
XXX ((turns back))



XXX           uh:  
XXX           Gaussian Distribution  
XXX           and  
XXX           ((flips over paper, pauses, looks back up in previous  
XXX           direction))  
XXX           ((cut off))