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Setting: It is an informal interview that was probably spontaneous due to lack of students showing up at office hour. The questions asked were a bit odd.

Participants: Two people. I1 is in blue and is a girl sitting closest to the camera. IS4 is the boy in a very furry looking jacket with glasses.

0:00

Xxx I1:	hi [how are you?
Xxx IS4:	[hi
Xxx	fine:
XXX	uh yea
Xxx I1:	so long has it been since we last talked right?
Xxx IS4:	yes long time (.) has passed.
Xxx	uh (.)
XXX	I think we haven't-
Xxx	we haven't had the this talk for months?
Xxx I1:	уеа
Xxx	((both nods and IS4 kind of grunts in agreement))
Xxx	for months now.
Xxx	today ah
Xxx	I want to know more about your <u>field</u>
Xxx IS4:	your- my- my
Xxx I1:	your field
Xxx IS4:	[my field
Xxx I1:	[your major [yea
Xxx IS4:	[oh major
XXX	uh
Xxx I1:	could you just tell me a little background?
Xxx	and then we can take it from there.
Xxx IS4:	okay so my (.) okay you know my
Xxx	I i:n AMS department and
Xxx	u:h (.) more specifically I am in the
Xxx	computational applied math track.
Xxx	computational applied math.
Xxx	it is uh it is field that
Xxx	deals with the: computational (.) method to deal xxx
wi	th
Xxx	some (.) numeric to do some numeric problems
Xxx	like solving some-
Xxx	solving som:e- equations numerically.
Xxx	whi- which means that it is not-
XXX	not a traditional way to (.)

Xxx		like (.) uh: solving an equation analytically.
Xxx		so(.)a- a- all we need to use is use the <u>computer</u>
Xxx		to give the numbers of-
Xxx		to- to- to- get the numbers of solutions of- in
Xxx		equation
Xxx		so that's how uh-
Xxx		I think that's the (.) I think that's the
Xxx		most of the research programs in computational
XXX		applied math
Xxx		(.) track
Xxx		((Il nods))
Xxx		SO-
Xxx I	I1:	SO
Xxx		you know I- I took computational linguistics
Xxx I	IS4:	уеа
Xxx I	I1:	the major goal of computational linguistics was
Xxx		you know it- it- it's not like the uh uh um-
Xxx		eh-eh- natural uh language <u>processing</u>
Xxx		we're trying to understand how language
Xxx		((IS4 doesn't seem too interested))
Xxx		really works so
Xxx		do-do you know google translator?
Xxx		it [does such a poor
Xxx I	IS4:	[yea yea
Xxx I	I1:	job you know transla:ting.
Xxx I	Is4:	yea ((he doesn't seem to know why she's talking
XXX		about this…but I was lost when I watched 1^{st} time
Xxx		as well))
Xxx I	I1:	because it's based on <u>simulations</u>
Xxx		y-y-you know it's just
Xxx		creates so many simulations
Xxx		a-and then it- it gives you some kind of (.)
Xxx		translations.
Xxx		but in linguistics in computational linguistics
Xxx		we are really trying w- to know how language works
Xxx		so we c- can give some more accurate ((nods))
Xxx		(.) <simulations>.</simulations>
Xxx I	IS4:	so-
Xxx I	I1:	can you tell me about computational-
Xxx		computation- computation- and how it deals with
Xxx		something like language?
Xxx		((that's a really difficult question!!))
Xxx I	IS4:	li-like language? Uh uh I don't know.
Xxx		I don't know.
EVC		wh what the word- what computation can used in

XXX		can be language processing. ((seems hesitant))
Xxx		I- I- I don't
3:00		
Xxx	I1:	so so from your (.) pre- preuh- prescriptive
Xxx		((I think she meant perception, but I hear
Xxx		prescriptive thoughts ?))
Xxx		how can we deal with language processing?
EVC	IS4:	language processing… um:
XXX		hhh
Xxx		((sighs and makes a confused face))
Xxx		um maybe (.) I think
Xxx		as far as \underline{I} : am concerned eh I think
Xxx		statistics can be used in language processing.
Xxx		((doesn't seem too sure of his answer))
Xxx		I know many translating is- um
Xxx		is conducted in a statistical way.
Xxx		I mean uh: for example
Xxx		if- if word (.) e:h the meaning of a word
Xxx		is u:h depends strongly on the $\underline{context}$ it is in
Xxx	I1:	mhm
Xxx	IS4:	uh- I mean if- uh
Xxx		so statistics is- uh statistics it uh
Xxx		ge-ge- get the data net when eh-
Xxx		when a word gives this meaning.
XXX		and when a word gives [another meaning
Xxx	I1:	[mhm
Xxx	IS4:	so if we use computation to: uh
Xxx		make some statistic on the:
Xxx		on how the word
XXX		or how the sentence works
Xxx		I think it will- it will give us-
Xxx		it will give us a more
Xxx		accurate way to translating.
Xxx		I think I think the computation
Xxx		and the statistics is
Xxx		m: uh is uh- it's a valuable method.
Xxx		I think it is.
Xxx		((IS4 scratches his head and I1 nods))
Xxx	I1:	so (.) uh (.) that's one point.
Xxx		can- can you tell me about (.)
Xxx		some very interesting advances
Xxx		in your field?
Xxx	IS4:	uh my uh-
Xxx		let me talk about <u>my</u> group.
Xxx		ok so my group is dealing

Xxx	uh: is dealing with the:
Xxx	problems with the parachutes.
Xxx I1:	okay
Xxx IS4:	we: uh- we simulate how the
Xxx	all the parachute can- (.)
Xxx	can- uh you know-
EXA	uh pass down
Xxx	((moves hand down))
Xxx	uh uh for-
XXX	for how the parachute fall.
Xxx	and uh- how the air flow
Xxx	uhm: performs when the parachute like spread \underline{out}
Xxx	or: what how uh the-
XXX	parachutists um will um
Xxx	behave when he's (hang) by the springs.
Xxx	so that's we- we-
XXX	we use the differential equations
Xxx	to: analyze the airflow.
Xxx	and we use-
XXX	and we use our compu- uh
6:00	
Xxx	our code-
XXX	our packages to simulate the-
Xxx	like the powers-
XXX	the powers status of the parachute.
Xxx	and and we can
Xxx	we can se-
Xxx	we can computation simulate
Xxx	how it is the parachute stable
Xxx	or a: a safe
Xxx	safe parachute.
Xxx I1:	((nod)) so you're uh- the goal
Xxx	of you know
Xxx	of the thing you're doing now is to make
Xxx	very accurate measurements
Xxx	so people don't die when they uh use the
Xxx	parachute.
Xxx IS4:	yeah I think it's just not no no n- not dying
Xxx	((chuckles))
Xxx	the more I think the most important concern is
Xxx	um: ((makes noise when mouth like s:))
Xxx	is the like the <u>speed</u> or the
Xxx	material of the parachute.
Xxx I1:	so you want to make the parachute more safe?
Xxx	is that what you're saying?

Xxx IS4	: y:ea safe safe is one concern and
XXX	<we- know="" to="" want="" we-=""> how the parachute will</we->
XXX	uh: (.)
Xxx	will move or how the parachute will behave
Xxx	i- in- in this <u>falling</u> process
Xxx	so w- in in fact the most eh
Xxx	yes and we want to know everything
Xxx	that will happen when the parachute
Xxx	spread out and fall.
Xxx	so .hhh ((breaths in)) I think our main goal
Xxx	is just simulating.
Xxx	simulating the every details of the
Xxx	whole process.
Xxx I1:	so w- what is your addition?
Xxx	to: you know
Xxx	people have been using the parachute for <u>so</u> many
XXX	years
xxx IS4	: yea
xxx I1:	so what would be your addition
XXX	what would be the new thing that you're
XXX	going to be working on?
Xxx	((I feel like I1 didn't really listen to IS4
Xxx	or maybe she didn't understand him?
Xxx	he said earlier that the team was just
Xxx	working on a simulation and equations))
Xxx IS4	: um: I think it is eh: ho- how can we uh:
Xxx	how uh: how can we measure the:
Xxx	um:
Xxx	you know
XXX	i-i- in many times the (.)
Xxx	trajectory of the parachutes
Xxx	we cannot predict,
Xxx	we cannot predict how
Xxx	i-i-if this parachute will like u:h
Xxx	(.) make a spira:l ((makes spiral hand move))
Xxx	trajectory
Xxx	or make a unpredictabl:e curve in the air.
Xxx	so w-we want to know how it will
Xxx	how it will behave in this whole process.
Xxx	since we since we know ho-how it moves
Xxx	we can-
XXX	>can try to control it<
Xxx	and we can um: so this is one concern
Xxx	another concern how
Xxx	you know the parachute (.)

Xxx	the- the material to- (.) to uh-
Xxx	of the parachute
Xxx	it has very porous-
XXX	like the holes in the
Xxx	in the parachute.
Xxx I1:	uhuh
EXA IS4:	so we can- we can- so-
EXA	in fact it is some kind of ((a parameter))
Xxx	o-of this parachute
Xxx	and uh
Xxx	once we uh: um:
9:00	
Xxx	and by- by change this (parameter)
Xxx	like th-the (side) of the holes
Xxx	or the: density of the holes.
Xxx	we can make the parachute like fall w-
Xxx	fall with the different spee:d or
Xxx	fall with with different kind of wi-
Xxx	with different kind of up trajectory
Xxx	SQ.
xxx	um T think-
Xxx	T think um veah if if we simulate-
Xxx	we can simulate uh
Xxx	like we can bu-built the whole processing
Xxx	on computer we can () we can know-
Xxx	we can know- how (equin)
Xxx	how we can use the parachute
Xxx	so I think that's the point.
Xxx T1·	50
Xxx TS4.	the ultimate goal is to to simulate the whole
XXX 101.	process
Xxx T1.	so so you're trying to make the parachute like
Xxx	more controlled and less unpredictable?
Xxx TS4 ·	vea ves
Xxx T1.	ok.
XXX II. XXX IS4.	b-because the like airflow along the parachute
XXX 101.	is very uppre-
Xxx T1.	veah that's [right
XXX II. XXX Is4.	jean char 5 [light
XXX 101.	so we don't want the parachuters to fall down
Xxx	in a place that we can't find
XXX XXX	or or some lim.
AAA Yyy	unpredictable se- consequences
AAA Yyy	so we need to simulate each
	so we need to simulate each
ΛΛΧ	as accuratery as we call.

Xxx	I1:	that's nice
Xxx	IS4:	уеа
Xxx	I1:	so have you ever been?
Xxx	IS4:	uh:
Xxx	I1:	have you ever used a parachute?
Xxx		((IS4 doesn't answer the question))
Xxx	IS4:	n- uh yeah it's almost in the computer-
Xxx		computational simulation now
Xxx		and it is uh we use (.)
Xxx		yeah it is-
Xxx		the ((unclear)) is a 3 year-
XXX		3 year research.
Xxx		so we don't we don't- $(.)$
Xxx		we still have time to do this.
Xxx		and we- we- we- now we will
Xxx		ge- get some uh:
XXX		you know some
Xxx		<pre>temp(.)porary results.</pre>
XXX		uh
Xxx		yea and then there's a <u>long</u> way to go.
Xxx	I1:	that's nice
Xxx	IS4:	уеа
Xxx	I1:	so um: is the
Xxx		nowadays there are \underline{so} many different technological
Xxx		advances
XXX		that are exciting.
Xxx		can you tell me more about em:
Xxx		some technological um you know
Xxx		things that have attracted your attention?
Xxx	IS4:	technological uh:
Xxx	I1:	something impressive?
Xxx	IS4:	I think now technological improvement
Xxx		are mostly in the compu-
Xxx		you know the IT industry I think.
Xxx		so like uh: (.4) uh let me-
Xxx		uh let me think ((pause))
12:0	0	
Xxx		like reality enhancement or,
Xxx		do you know the-
Xxx		technology that has spread out on the internet
Xxx		that the-
XXX		uh:
Xxx		the reality enhancement let me look at- to build-
Xxx		to use some- to use some technology device
Xxx		to <u>enhance</u> your view viewing sense

Xxx of the world. Xxx ((I1 seems like she wants to say something Xxx so- let me uh: Xxx uh I: have come across a- a video that (.2) uh:- the-Xxx the: this technology creates like-XXX Xxx creates a shark. in the room and it lo-Xxx it looks very real Xxx so it is-Xxx Xxx I1: so do people like wear goggles? ((motions XXX glasses)) 12:00 Xxx IS4: y:ea the um: Xxx the most amazing thing is that you don't need Xxx you don't need a glass or something. Xxx I1: uhuh so howso- so we can see it in- in the video. Xxx IS4: Xxx and we we just use our eyes we can see it. Xxx so it is (.) XXX Xxx yeah it's incredible. an um: it is- it is shock. Xxx and uh XXX it comes out from-Xxx Xxx jumps out >from the sea< Xxx it is very 3D real viewing (.) experiences. and- and it is called-Xxx now it is called reality enhancement. Xxx Xxx IS4: yeah and [I think Xxx I1: °[reality enhancement° Xxx IS4: yea andthis techno-XXX this technology is still being developed. Xxx and I think it will be (.) Xxx the:- the (.) product that can be used for people. Xxx <I think> it's (.) soon Xxx think to be seen. Xxx <I think we can see it soon.> XXX Xxx I1: bu-bu-but don't you think it's: kind of dangerous to develop such a thing? Xxx I don- uh may:be (.) Xxx IS4: I don't know. XXX it- <I don't know>. Xxx XXX it depends how people use it.

ххх		↑I think first it will be very expensive so
Xxx		I think it will not be very common.
Xxx		an:d uh I think people will just use it for
Xxx		like in entertainment industry,
Xxx		or: something else.
EVC		so I don't think I don't think it w-
EVC		it be very (.3) it'll be very uh:
EVC		.hhh y:ea uh: (.)
Xxx		it's hard to say.
Xxx		le- let us just see,
Xxx		what will happen.
Xxx	I1:	I th-think it just sounds <u>so</u> real
Xxx		you're not [even the glasses ((makes goggle motion))
Xxx	IS4	[yea yea
Xxx		and uh and uh and I
Xxx		<this be="" can="" in="" technology="" used=""> some (.) games</this>
Xxx		video games
Xxx		or:
15:0	00	
Xxx		m-
XXX		phones
Xxx		mobile phone games
Xxx		and it can- it can create some very:
Xxx		real experiences for people to
Xxx		to play the game.
Xxx		yea so um it will be very:- (.)
Xxx		uh: it is a milestone in the game industry
Xxx		I think.
Xxx	I1:	уеа
Xxx		if they can create that game for something like
Xxx		(.) Call of Duty
Xxx		(.)
Xxx	IS4:	((laughs)) yea
Xxx	I1:	it be like-
XXX		yea.
Xxx	IS4:	yea it will make them MA:D I think.
Xxx	I1:	((both nodding))
Xxx		that's why I'm telling you it might be a
XXX		little [dangerous
Xxx	IS4:	[yea
Xxx	I1:	if you think about it.
Xxx	IS4:	but- but I-
XXX		yea no <but considering="" that=""></but>
Xxx		it has not come into (.) uh: very: popular
Xxx		like (.) in the (.) industry.

Xxx	<(it has not come into the industry)>
Xxx	so I think the most-
Xxx	it is mostly still in the-
XXX	<u>lab</u> I think.
Xxx	it hasn't come into the product line so-
Xxx	(.2) we- we- we- still have time to wait for-
Xxx	to see how it will go.
Xxx	where it will go.
XXX	уеа
Xxx I1:	((nod)) k
Xxx	a few weeks ago I went to a- a-
Xxx	john kennedy space center
Xxx IS4:	john o
Xxx I1:	and I ah watched so many videos.
XXX	and one of the videos was about the uh
XXX	challenger that exploded
Xxx	before it took off.
Xxx	it is was- you know really sad.
Xxx	people haven't done accurate math
Xxx	because of that people lost their life.
Xxx	do you a-a-a know that incident?
Xxx Is4:	oh uh do you mean the explosion of the-
Xxx I1:	yea:
Xxx IS4:	уеа
Xxx I1:	((unclear space something?))
Xxx IS4:	yes
Xxx	I think its called Columbia?
Xxx	is it?
Xxx I1:	uh there was Columbia and there was challenger,
Xxx	in the 80 96 or [something.
Xxx IS4:	[yea yea yea
Xxx	I heard that.
Xxx	uh uh um:
Xxx	I heard it is-
XXX	it is just because
Xxx	these ah ah accident is (.) uh: is due to a screw?
Xxx I1:	a screw?
Xxx IS4:	yea but-
XXX	I-I I my story is this
Xxx	so it is just a screw like something is wrong
XXX	with the screw
Xxx	<and exploded="" just="" spaceship="" the="" whole="">.</and>
Xxx I1:	y: y:ea
Xxx IS4:	yea but um:
Xxx	but I think it would um:

Xxx	I don't know how it relates to the math
Xxx	but I think I think it did.
Xxx I1:	well maybe the math wasn't accurate enough
Xxx	<to [where="" know="" know<="" put="" screw="" td="" the="" to="" you=""></to>
Xxx IS4:	[yea yea yea
xxx I1:	where it should be> [maybe I don't know
xxx IS4:	[y:ea
XXX	yea but uh but we don't know the <u>details</u>
XXX	[so
xxx I1:	[yea
xxx IS4:	we cannot- we cannot-
XXX	not uh: um:
XXX	give our uh too many uh-
XXX	eva- uh
XXX	(.) too many like uh:
18:00	
XXX	(.2) judgements to the-
XXX	to the thing
EVC	because we don't know the details
EVC	I think- but
EVC	but uh:
EVC	you know (.)
EVC	but if everyone: can (.)
XXX	do their- do their work very carefully
XXX	I think the spaceships >is safe enough<.
XXX	because we have we have
XXX	sent so many spaceships to the space.
XXX	and most of them (.) are doing good.
XXX	so that means our theories is right.
XXX	we we are on the right way.
XXX	so: the important thing is to
XXX	we do our uh job very carefully.
XXX	and uh
XXX	check it again and again.
XXX	and w- especially when uh when there uh
XXX	there are <u>people</u> in the spaceship.
xxx I1:	mhm
xxx IS4:	so we need to-
XXX	we can never be too careful in-
xxx I1:	k so uh are there (.) more variables,
XXX	to account for,
XXX	if you are
XXX	you know are studying,
XXX	now you're working with parachutes.
xxx IS4:	уеа

XXX	I1:	will there be more variables
XXX		to eh: to account for if you study the spaceship
XXX	IS4:	uh: the spaceship (.)
XXX	I1:	how it launches
XXX		and
XXX	IS4:	y:ea but I think-
XXX		I think to send a spaceship is a very large
XXX		project.
XXX	I1:	yes
XXX	IS4:	so everyone- everyone people I think it is
XXX		everyone single man can <only be="" responsible<="" td=""></only>
XXX		for only a small part of this project so>
XXX		if I-
XXX		if I'm in this project
XXX		I don't know what I am- what I am- (.2)
XXX		what- what I will work for.
XXX		but I think it is just a <small of="" part="" td="" this<=""></small>
XXX		project and uh>
XXX		use my math and (.)
XXX		um: (.2) ((he is thinking))
XXX		yea I think um: the the important thing is to just
XXX		use my knowledge and do the do the
XXX		things that I need to
XXX		do and as a whole.
XXX		uh many people if-
XXX		if there are many people are doing this
XXX		and we check-
XXX		we check each other's work
XXX		then the whole whole project will be good.
XXX	I1:	alright let me ask you a related question.
XXX		if I- I ask you to choose one part of the
XXX		spaceship=
XXX	IS4:	=yea
XXX	I1:	to be in charge of
XXX	IS4:	°in charge of°
XXX		I maybe-
XXX		maybe to predict the trajectory of the
XXX	_	spaceship,
XXX	I1:	mhm
XXX	IS4:	but I think- I think thi-
XXX		this is more-
XXX	- 1	most relevant topics to my field.=
XXX	I1:	=mhm
XXX		yea (.) so
XXX		I think if deal with <u>this</u> (.) problem

XXX		the um work I will do is to:
XXX		>equations<.
XXX		I think there'll be equations,
21:0	0	
XXX		and taking to every parameters, and- (.)
XXX		and I think- ((nods)) (.2)
XXX		um: yes I think-
XXX		I can predict the trajectories
XXX		I- I- if we can solve the
XXX		>partial differential equations<
XXX		as as accurately as we <u>can</u> .
XXX		and these trajectory ((pause))
XXX		um and how-
XXX		how the fuse-
XXX		uh how the fuse can-
XXX		or how the forces can-
XXX		can change the trajectory.
XXX		yea I think if- if I-
XXX		if I'm into this field
XXX		I-
XXX		I will do these things.
ххх	I1:	that is ↑so coo:l.
XXX	IS4:	but ((laughs)) yea its (.) I think it's cool.
XXX	I1:	just give me a second ((leaves for a bit))
XXX		so: okay
XXX		um: how realistic you think the idea of creating,
XXX		a robot that is [like a human,-
XXX	IS4:	[ah
XXX		a robot you you mean the-
XXX		I think you also heard the (alpha-go)?
XXX		who played the (.)
XXX		who played the: chess with the Korean (.)
XXX		do- do you know that news?
Xxx	I1:	mhm
Xxx	IS4:	(alpha go) it is a robot-
Xxx		it is a robot playing with a human player.
Xxx	11:	mhm
Xxx	IS4:	and it he-
XXX		the robot wins with the 4 1.
Xxx	I1:	oh wo:w
EVC	IS4:	he wins 4- (.)
EVC		4 place in a 5 place.
Xxx	I1:	so you were saying.
Xxx	IS4:	yea ye-
Xxx	I1:	in other words he's thinking like humans!

Xxx IS4: yea he's maybe better than [humans. Xxx I1: [((nod)) yea do you think it's realistic, Xxx Xxx to be optimistic that we can one day, we can create a robot that would Xxx Xxx have some- (.) Xxx in addition to aptitudecan we create a robot that fee:ls? Xxx Xxx (.2)Xxx IS4: feels uh: Xxx I1: that understandsyea you mean-Xxx IS4: Xxx I1: feelings. Xxx IS4: yea you mean uh feel the pains? or the Xxx [happiness or sadness Xxx I1: [emotions Xxx IS4: emo[tions Xxx I1: [yes Xxx IS4: uh uh Xxx I1: do do you think emotions can be (.) somehow coded? Xxx IS4: that's uh very ((laughs)) Xxx that's very= Xxx I1: =abstract I don't know the-= Xxx Xxx IS4: =yea it's a very eh complex topic. Xxx complicated topic I think. Xxx uh: ((pause)) hm: Xxx emotions because in fact we don't-Xxx Xxx because in fact we don't know-XXX we don't know the emotions of emotions of humans in fact. XXX 24:00 so we don't know much about ourselves now. Xxx so I don't think-Xxx Xxx so I think the first ways to:- (.2) Xxx to do some (.) deep analysis on ourselves. and then only- only- only when we know- (.) Xxx Xxx <know enough knowledge about ourselves> Xxx can we can we create something like ourselves. because we we don't know how- how- (.) Xxx yes in fact we- we don-Xxx we don't know how do we sense now. XXX Xxx >how do we sense the happiness now<. Xxx we don't know the mechani- mechanics behind this.

Xxx	we only know that we are composed of atoms,
Xxx	or mole uh-[uh- molecules.
Xxx I1:	[molecules
Xxx IS4:	but we don't know why,
Xxx	when they gather uh like human body,
Xxx	and we can think,
Xxx	we can sense,
XXX	we can get the happiness,
Xxx	sadness,
XXX	madness,
XXX	or something else.
Xxx	so (.) we- we don't know all the: (.2)
Xxx	<yeah about="" fact="" in="" know="" nothing="" ourselves<="" td="" we=""></yeah>
Xxx	in- in- in this field>.
Xxx	so: I don't think-
XXX	I don't think we can create robot (.) that can
XXX	feel.
Xxx	before we-
Xxx	before we do some- (.)
Xxx	have some improvement of knowledge about
Xxx	ourselves.
Xxx I1:	°o:k=
Xxx IS4:	=it's a <u>long</u> time.
Xxx	to
XXX	go.
Xxx I1:	hm
XXX	so ((pause))
Xxx	eh eheh can you-
XXX	can you talk to me about (.3)
Xxx	so you're saying
Xxx	human emotions are very [are very [complex
Xxx IS4:	[yea [com yea
Xxx I1:	so eh- eh- now as human we-
XXX	we can create a
Xxx	robot that would [excel and do some [math
Xxx IS4:	[yea [yea
Xxx I1:	mathematical-
Xxx IS4:	yea yea
Xxx I1:	uh equations
Xxx	what other (.) you know
Xxx	ca can you tell me more about more other advances
Xxx	when it comes to robots and [things ((unclear))
Xxx IS4:	[robots
Xxx	uh: robots
Xxx	like u:h (.2)

Xxx	we can only some- (.2)
Xxx	now the- um:
Xxx	the ((something))(tier) of the robot industry
Xxx	I think is let them do something
Xxx	that you ask them to do.
Xxx	like to do some (.) housework,
Xxx	or: playing some: playing some games
Xxx	and
Xxx	use some use some algorithm to
Xxx	to uh play a game.
Xxx	and even-
Xxx	and even ((unclear)) ourselves.
Xxx	but when uh:
Xxx	so I think I think it's all we can do.
Xxx	if- if we want to really
Xxx	uh let the robot to <u>behave</u> like human.
27:00	
Xxx	or <u>sense</u> like human <u>feel</u> like human.
Xxx	it's impossible i- in our-
Xxx	in current stage.
Xxx I1:	m:
Xxx IS4:	so: >the only thing we can do is to let the<
Xxx	robot to <u>do</u> with some programs.
Xxx	do some <u>things</u> for us
Xxx	it is a (procedure) that we have set up in
Xxx	our minds.
Xxx	that's all me we can do.
Xxx	now.
Xxx I1:	um: alright,
Xxx	um so you talk to me about a project that you
Xxx	are working on.
Ххх	↑parachute
Xxx	um can you talk to me about uh what people are
Xxx	doing in your-
XXX	in your department?
Xxx IS4:	°my department°
Xxx I1:	some interesting things
Xxx IS4:	<pre>°some interesting° ((laughs))</pre>
Xxx	I don't know eh:
Xxx	((pause)) .hhh
Xxx	because I don't know much about-
Xxx	I don't know much about the details of the-
Xxx	I- I- I only- I only know some
Xxx	like what papers they publish,
Xxx	or just like this

Xxx		very superficial knowledge about.
Xxx		like in statistics
Xxx		some people are dealing with the uh
Xxx		the cancer. (.)
XXX		how the-
Xxx		the relations between the-
Xxx		human genes ((points to own body))
Xxx		((I1 seems interested))
Xxx		((IS4 looks at her for a bit))
Xxx		and uh: the tendency to get cancer.
Xxx	I1:	o:h
Xxx	IS4:	so I think that's- that's some yea
Xxx		it is very-
Xxx		it is in in very big paper
Xxx		because it is published in (nature).
Xxx		one of the one of the most (.)
Xxx		<pre>important °journals°.=</pre>
Xxx	I1:	=prestigious
Xxx	IS4:	yea you know
Xxx		like human uh it- it- it is deals with the
Xxx		relationships between the- yea genes and cancer.
Xxx	I1:	so uh but we already know that heredity-
Xxx		((stutters))
Xxx	IS4:	yea of course they have some (.) uh
Xxx		I-
XXX		the only knowledge that I know is is about this.
Xxx		of course in the papers there will be some
Xxx		there more details and some-
Xxx	I1:	уеа уеа
Xxx	IS4:	some very (.) important discoveries.
Xxx		but ah I I don't know much.
Xxx		I- the only thing I know is that
Xxx		I know is that this paper is published in nature.
Xxx		((he laughs))
Xxx	I1:	provides- provides some more evidence that
Xxx		you know [genes [correlate with cancer.
Xxx	IS4:	[yea [yea
Xxx	I1:	ok it- it is you know so [cool to to know it it it
Xxx	IS4:	[yea
Xxx	I1:	to know more [about these things!
Xxx	IS4:	[yea
Xxx	I1:	and you know people people like me we don't
Xxx		really know- really know the
Xxx		(process) of math in doing all that.
Xxx	IS4:	math (.) uh (.) you know uh math-

Xxx I1: math physics [you know for us it's you know Xxx IS4: [eh eh I think math gi- gives the equations Xxx Xxx and gives it how do we so solve the equations. an:d (.) and statistics is a kind of math Xxx Xxx you know. Xxx the statistics eh you know. 30:00 Xxx so: in my- in my Xxx take my group as an example. Xxx the math plays plays the law to EXA as the (understone) of all the simulations because we need to-Xxx if we want to-Xxx Xxx if we want to know how the air flows. we-we-we need math to- (.) Xxx Xxx the math (.) is um: pictures how how it-it flows. Xxx Xxx because it it gives us the equations. and it it gives the math to solve the equations. Xxx Xxx and once we- we- we get the equations Xxx get the solution of the equation:s Xxx we can we can view it how it flows. Xxx the equations like- <the equations can take in Xxx consideration some terms like> the velocity of Xxx the air Xxx uh: or the or the everything else that the Xxx density of the air and (.) Xxx when we sol- solve these equations Xxx we get- get the velocity of (.) the flowthe airflow. XXX and once we get the velocity of the airflow Xxx we can we can picture it in a computer. Xxx Xxx and we will uh see a very beautiful picture-Xxx graph to simulate thesimulate the air. Xxx Xxx so that's how that's how math eh: (.2) Xxx Xxx be uh applied in our group. Xxx I1: y:ea uh uh uh so um: ((pause)) Xxx Xxx let me think of something um: ((pause)) Xxx alright um it Xxx Xxx can you- can you tell me more about you know

Xxx	one of the courses you're taking.
Xxx	and why you're so interested in that course.
Xxx IS4:	uh: my uh:
Xxx	((pause))
Xxx	uh:
Xxx I1:	and if possible
Xxx	what would be the you know um-
Xxx	the things that (.) you know can take and apply in
XXX	the real world.
Xxx IS4:	yea uh I:
Xxx	so one courses is the numerical analysis of the
Xxx	partial differential equations just like I said
XXX	before.
Xxx	so it is-
Xxx	it is um:
Xxx	it teaches us how to-
Xxx	(.)
Xxx	yea it- it teaches us the very things that I
Xxx	said just before so
Xxx	how to how to solve the equations.
Xxx	how to use <u>computers</u>
Xxx	how to use <u>methods</u>
Xxx	how to do algorithms to solve the equations.
Xxx	and we will give numerical solutions.
Xxx	and we can-
Xxx	and once we give some meanings to the equations
Xxx	like the airflow [or and anything else
Xxx I1:	[mhm
Xxx IS4:	we can-
Xxx	we can- we can apply the equations-
Xxx	a-a-apply the knowledge of this course to build
Xxx	some to build some