



1
00:00:06,310 --> 00:00:04,570
now when I was a little kid I had a

2
00:00:09,520 --> 00:00:06,320
career list and it was astronaut

3
00:00:17,560 --> 00:00:09,530
biologists and geologists so far I've

4
00:00:24,710 --> 00:00:21,560
I was always very interested in viruses

5
00:00:26,780 --> 00:00:24,720
I started getting interested in DNA and

6
00:00:28,550 --> 00:00:26,790
viruses when I was about 16 and was

7
00:00:30,769 --> 00:00:28,560
working in public health we were

8
00:00:32,890 --> 00:00:30,779
studying HIV integrase and trying to

9
00:00:37,100 --> 00:00:32,900
come up with some treatments for HIV

10
00:00:39,619 --> 00:00:37,110
that led to PhD at Stanford where I was

11
00:00:42,369 --> 00:00:39,629
looking at viruses such as monkey pox

12
00:00:45,439 --> 00:00:42,379
and smallpox and Ebola

13
00:00:47,750 --> 00:00:45,449

Marburg and Lassa fever and there are

14

00:00:49,759 --> 00:00:47,760

some of our most deadly viruses so we

15

00:00:52,910 --> 00:00:49,769

have incredibly specialized labs to

16

00:00:55,160 --> 00:00:52,920

contain those biosafety level 4 labs we

17

00:00:58,789 --> 00:00:55,170

also did field work in Africa looking at

18

00:01:00,829 --> 00:00:58,799

outbreaks so we went to Congo and set up

19

00:01:03,259 --> 00:01:00,839

a small field research site there in

20

00:01:06,859 --> 00:01:03,269

order to be able to treat these patients

21

00:01:09,260 --> 00:01:06,869

and to understand how the virus was

22

00:01:11,940 --> 00:01:09,270

emerging in these populations I've

23

00:01:15,899 --> 00:01:11,950

always been interested in DNA

24

00:01:18,870 --> 00:01:15,909

and in physiological responses at the

25

00:01:20,910 --> 00:01:18,880

cellular and the molecular level so at

26

00:01:22,620 --> 00:01:20,920

the cellular level I think that's one of

27

00:01:25,020 --> 00:01:22,630

the most exciting things for me on space

28

00:01:27,389 --> 00:01:25,030

station is to take a look at all these

29

00:01:29,430 --> 00:01:27,399

processes and how they're influenced by

30

00:01:31,859 --> 00:01:29,440

the lack of gravity do you know if you

31

00:01:33,719 --> 00:01:31,869

look at human evolution in history we

32

00:01:35,609 --> 00:01:33,729

have always been exploring and we've

33

00:01:38,370 --> 00:01:35,619

always been observing our world which is

34

00:01:41,010 --> 00:01:38,380

really what scientists do and so I think

35

00:01:44,190 --> 00:01:41,020

it's absolutely the next step to push

36

00:01:47,190 --> 00:01:44,200

forward and to see where we're going in

37

00:01:49,710 --> 00:01:47,200

our exploration of the solar system I'm

38

00:01:51,240 --> 00:01:49,720

just pretty excited to be flying on ISS

39

00:01:55,289 --> 00:01:51,250

and to be a really small part of that