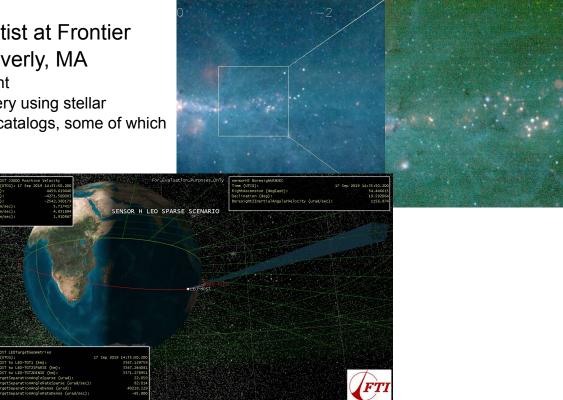


Bachelor's Degree Career in Science and Technology

Sheela Ahmed

About Me

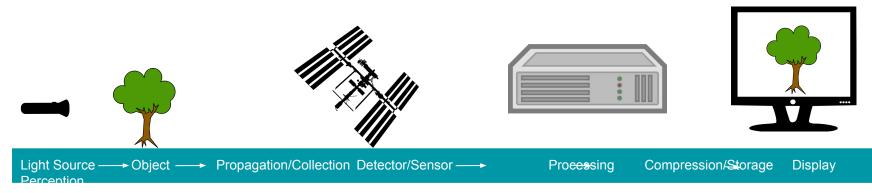
- Associate Data Scientist at Frontier Technology Inc. in Beverly, MA
 - Algorithm development
 - Simulate space imagery using stellar background and star catalogs, some of which created by NASA



What is Imaging Science?

~understand and studying the design and development of scientific imaging systems~

- Combining math, physics, computer science, and engineering to study every aspect of an imaging system, from how light is perceived to how sensors are produced to how images are processed
- ✤ <u>The Imaging Chain:</u>



What is Imaging Science?

Astronomy

Cultural Heritage Imaging

Detectors and Imaging Systems

Human and Computer Vision

Remote Sensing

Nanolmaging

Magnetic Resonance

Optical Imaging







How I Got Here

Interest in math and science

Physics and Astronomy - Holy Quran, Surah Adh-Dhariyat 51:48 about the expansion of the universe

And the heaven We built with *Our own* powers (*aydin*) and indeed We go on expanding it (*musi'un*).¹

Surah Al-Anbiya 21:31 about the start of the universe and the first step to creation

اَوَلَمْ يَرَ الَّذِيْنَ كَفَرُوْاَ اَنَّ السَّمُواتِ وَالْأَرْضَ كَانَتَا رَتْقًا فَفَتَقْنَهُمَا وَجَعَلْنَا مِنَ الْمَآءِ كُلَّ شَيْءٍ حَتِّ أَفَلَا يُؤْمِنُوْنَ* 21:31

Do not the unbelievers see that the heavens and the earth were *a* closed-up *mass* (*ratqan*), then We clove them asunder (*fataqna*)? And We made from water every living thing. Will they not then believe?²

Why Science and Technology?

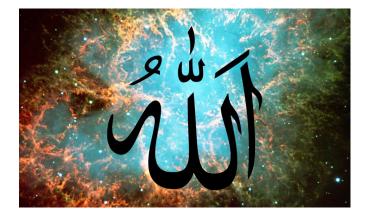
So many opportunities!

- With just a Bachelor's

Hazrat Khalifatul Masih V^{aba}: set the Nobel Prize as the *minimum* target

It is the "bounden duty of every Muslim - man and woman - to acquire knowledge"

- Holy Prophet^{saw}



Everything is Allah's creation

Being a [Ahmadi] Woman in the field of Science

- Nobel prize
 - > Only 10 women have been awarded the Nobel Prize in Physics or Chemistry

- Advised by Huzur to pursue a career in the sciences end goal being a Nobel Prize
- Approaching a career in the sciences is not incongruous to our roles as Ahmadi women

Biggest Takeaways

A Bachelors of Science degree is the path to further education - You can still have successful career with it

As an ahmadi woman, it is still possible, continue to pursue knowledge just as we have been advised to do as Muslims

JazakAllah!