

Bharath Narayanan

I grew up in Dubai and went to a school that followed the CISCE curriculum. I then did my bachelor's in mechanical engineering at the National University of Singapore. After that, I decided I actually wanted to work in engineering research and pursued a string of research assistantships in Singapore and India for about 5 years before starting my masters at the EPFL in Lausanne.

My current interests are in computational mechanics. In essence, this involves three broad steps:

1. Determining differential equations (PDEs) that describe a particular phenomenon (eg: movement of clouds, fluctuation of markets etc.).
2. Determining the appropriate formulation to convert the PDEs into a discrete form for the computer to understand
3. Running simulations using the computer and visualizing the results.

I am currently trying to increase my understanding of the mathematics behind all of this as engineering mathematics proved woefully inadequate! After my masters, I intend to pursue a PhD which combines my skills in computational mechanics with my interest in solving biomedical problems.