

## **Introducing Our Team**



Rich Asay (Lead Mentor)



Christopher Lanclos (Co-Mentor)



Jinwei Liu (Co-Mentor)







Jean-Pierre Bianchi (Student)



Ayomide Olatunde (Student)



Christopher Metellus (Student)





### **Team Landmarks**

#### Thursday:

- Met together and created introduction video Friday:
  - Created GitHub repository
  - Ideation, finding carbon nanotube database
  - Basic render of carbon nanotube (CNT) made in Blender
  - More research into CNTs, may influence project scope

#### Saturday:

- Benchmark render using VM compute configs
- More angles of CNT renders captured
- Attempts at rendering Blender files using CloudyCluster is made

#### Sunday:

- Web pages connected for GitHub site
- Lack of communication → slow progress

#### Monday:

- GitHub site completed
- Resorting to using Google Cloud







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## **Team Demonstration Video**

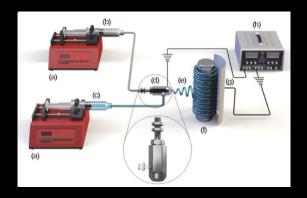


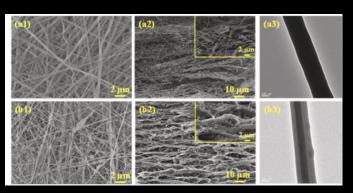


GitHub Link: <a href="https://qrgo.page.link/tGLCW">https://qrgo.page.link/tGLCW</a>



## Seawater filter with nanotubes







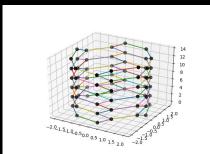


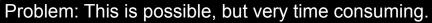


## Nanotube Creation with Python

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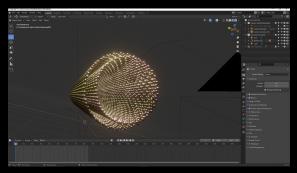




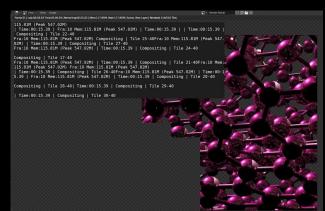


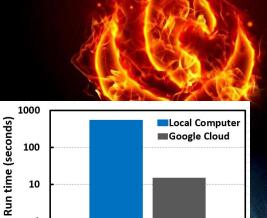
Cloudycluster for Rendering

#### Nanotube in Blender



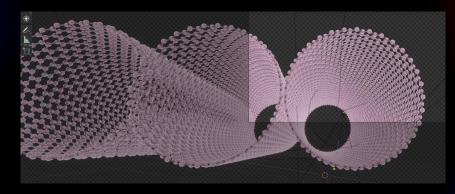
Approximate Render Time: 120' on Desktop, 15' on Cloudy Cluster

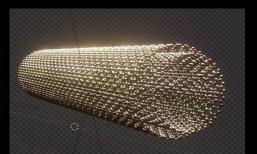






# Using Blender to Create Carbon Nanotubes









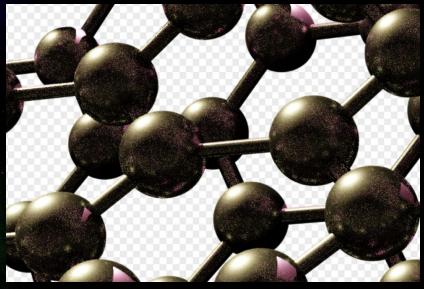
https://rollercoaster111.github.io/renderblender.io/main.html







# Using Blender to Create Carbon Nanotubes







Website Link:

https://rollercoaster111.github.io/renderblender.io/main.html



Questions?