Data & Visualization Weekly Projects Report 2022_03_07

Active Projects

Active Development

- Sensor Lab Demo Package
  - Wrote a skills document that Gustavo looked over, he asked whether I could start reviewing candidates for this and I said yes
- Blender on HPC workflow for GIS
  - Have learned about making confluence pages and will start on this when I finish the visit page
- Cyverse Field Scanner Vis Tool
  - Haven't heard anything from Eric about the data that I would be using, unfortunately this is exactly what I need before I can continue
- Kay He Exoplanets
  - Had first meeting for this project but it is definitely on the back burner until the sxsw event is over
- Kay He B2 Lung
- CATalyst data studio vis wall playlist
- Thermal Imaging Project
  - Was asked to stay on as an advisor to this project for their next grant submission, but this is a 2 year commitment that I don't think we can go for
  - Have to write an email to them explaining that I can't be committed in that way, but I'll mention the folks that they can connect with for additional support
- Vulkan on HPC
  - Huge success with this, turns out all the texas machines that I have access to so far can run Vulkan
  - I suppose longhorn is a bit of an oddity because it is a power 8 machine and I need to recreate the singularity image to support this before I can say it runs there, but frontera and lonestar6 are thumbs up
- Streaming Technology for HPC
  - Sent in an interlibrary loan application for the iso standard on mp4 so that I can better understand how to package data in mp4 format for streaming
  - This would help tremendously with projects like Bryan Carter's CDH streaming
- Data Visualization Roadshow With Jeff Oliver and Kiri Carini
- Independent Study Abby Collier
  - Met with Abby and tried to cover material related to advection and divergence being used in graphics with textures
  - This was pretty advanced and it might need another pass in order for some of the examples to make more sense

- She is working on adding a rebirth dynamic to a few of the effects that I'm showing at sxsw so got updates about that
- Stellarscape Astronomy Multimedia Dance Performance
  - Spent time this week making sure that the website interface for the installation demo is doing ok
  - This week I need to do testing with certain effects in an outdoor space
- Virtual Nature
  - Set date and time for Maria's presentation of Virtual Nature for the U of A, now I need to start advertising for this to interested groups

Consultations

- Word Cloud Visualization
  - Worked on a second revision for this visualization but didn't hear back from Teodora
  - Need to rewatch our zoom call and make sure there wasn't anything I forgot to do she's waiting for
- Erin Choi Brain modeling visualization
  - Got email back from the brain bus people, need to reply mentioning that the student Erin Choi is the person tha twould be connecting with them to help out at events
- Visit remote visualization support
  - Spent time last week working on the documentation for this, and getting used to Atlassian styling for documentation

Upcoming

- TURN UP Festival Performance NYU/UA collab
- Volumetric Capture processing on HPC
- Has Faculty Collaborations With Holodeck
- Ray Tracing On The Hpc
- Observablehq Portfolio Of Data Visualization
- Jason Hortin Holographic Dance Graduate Project

Completed For Calendar Year

Recently Completed

- Marcos Serafim Touch Designer visualization of audio file as video data bending

Workshops/Trainings

Completed Projects/Collaborations

- Marcos Serafim Touch Designer visualization of audio file as video data bending

Completed Consultations

- Martha Bhattacharya Cytoscape installation

Infrastructure Developed

Protocols and Analysis Developed