Data & Visualization Weekly Projects Report 2021_08_13

Active Projects

Active Development

- Biosphere 2 Biosystems Visualization Collaboration
  - Found an incredibly specific SIGGRAPH session of "representing nature" that we are going to go through and study for our uses
  - Will meet next week to go through it
- Data Visualization Roadshow With Jeff Oliver
  - Planning the catalyst studios presentation that is our first of 6 "Intro to Data Vis" presentations for this fall
  - The following presentations will happen and others may be added (ENVS, Math, Level up Eller, 2nd Catalyst presentation, Public Health)
- Independent Study Abby Collier
- Stellarscape Astronomy Multimedia Dance Performance
  - Organized all new visuals and research renders into movement folders for meeting that happened on wednesday
  - Had successful meeting and can relax a little bit now
  - Will have meetings with Kay He, Gustavo Almeida, and Win Burleson to work out more revisions to visuals and to chat about sensors
- Radiology 1St Year Resident Carl Sabotke
- Remote Visualization Infrastructure Development

Consultations

Upcoming

- Has Faculty Collaborations With Holodeck
- Observablehq Portfolio Of Data Visualization
- Ray Tracing On The Hpc

Completed For Fiscal Year

Recently Completed

- Collaboration With Techcore'S Summer Internship
  - https://hackmd.io/xi_m4Kj6QDenBR3ZAfN3iw?edit
  - {'Project folder on gdrive': 'https://drive.google.com/drive/folders/13v9QfUFVjQD-x7dh8chQZFvAxmy5zmx6?usp=sharing'}
  - {'videos': 'https://drive.google.com/drive/folders/18tT28oLiXFH1wH8NGUwSU1K0URyzJq9o?usp=
  - {'Pecha Kucha style presentation': 'https://docs.google.com/presentation/d/1n6ggKJ-oG7fqHfVsLMnuYkAVh095B1RA7EcNx1RQ12M/edit?usp=sharing'}
  - {'presentation video': 'https://www.youtube.com/watch?v=EiQ9S5lNbA8'}

Workshops/Trainings

- Mt. Lemmon In Your Pocket-Creating A Virtual Reality Tour
  – https://rtdatavis.github.io/#GIS_week2020
- Presentation For Civil Engineering Department
  – https://docs.google.com/presentation/d/15Z9zcxU4vIIgFPnKEcaGv9GH7JtjNdx4Xpnjec0EzEc/edit
- Resbaz Organizer And Workshop Provider
  – https://hackmd.io/-XS5Mqh8TA2EHjTHCQ_4tw
- Tech Core Level Up Presentation Monday, Sept 28 2020
  – https://rtdatavis.github.io/#techcoresept28
- Tech Core Level Up Presentation Tuesday, Mar 17 2020
  – https://rtdatavis.github.io/#techcoremar20
- Womens Hackathon: Visualization On The Web Workshop
  – https://womenshackathon.arizona.edu/
  – https://www.youtube.com/channel/UCe1YiJ53o3qcayVs4cipeXA/videos
  – https://www.youtube.com/watch?v=VLwPOtqW8oM

Completed Projects/Collaborations

- Collaboration With Techcore'S Summer Internship
  – https://hackmd.io/xi_m4Kj6QDenBR3ZAfN3iw?edit
  – {'Project folder on gdrive': 'https://drive.google.com/drive/folders/13v9QfUFVjQD-x7dh8chQZFvAxmy5zmx6?usp=sharing'}
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  – {'presentation video': 'https://www.youtube.com/watch?v=EiQ9S5lNbA8'}
- 3D & Vr Retrofit Azlive
  – https://rtdatavis.github.io/#retrofitAZLIVE
- Bio5 Virtual Reality Tour
  – https://rtdatavis.github.io/#bio5-vr-tour
- Covid Retail Mitigation Web Scraping
  – https://rtdatavis.github.io/#retailscraping
- Force Directed Biochem Networks
  – https://rtdatavis.github.io/#biochem-networks
- Migrant Forensic Empathy Project: A Digital Borderlands Grant Initiative
  – https://mfemigrantdeathmap.baylyd.repl.co/
  – https://devinbayly.github.io/digital_borderlands_conversion/src/mesh_test.html
  – https://devinbayly.github.io/digital_borderlands_conversion/src/index.html
  – https://hackmd.io/Qo_HmwmwSTG-QPYVTJl0Lg?view
  – https://osf.io/v9swc
- Neuro Choropleth
  – https://rtdatavis.github.io/#neuro-choro
- Oyster Vibrio Literature Review
  – TBA
- Spring Break Covid Photo Maps

– https://rtdatavis.github.io/#spring-break-covid

Completed Consultations

- Discussion about Social Network Analysis Visualizations
  – NA
- Advice For Thesis Defense Visualizations, Sabrina Nardin
  – NA
- Bryan Carter Photogrammetry
  – https://sketchfab.com/3d-models/churche-maze-photogrammetry-d0767af08a5d498fb960efe3ac83385f
  – https://drive.google.com/file/d/11E5_912vW6kuPBxcujGKs-UQD9S3jA-H/view?usp=sharing

Infrastructure Developed

- Autamus Web Interface
  – https://rtdatavis.github.io/#autamus_interface
- Virtualgl For Nvidia Accelerated Remote Hpc Visualizations
  – https://rtdatavis.github.io/#virtualgl
- Xpra And Singularity For Comprehensive Graphical Application Support On Hpc
  – https://rtdatavis.github.io/#xprasingularity

Protocols and Analysis Developed