

Jacob Christiansen Allen Clarke Yuanyuan Fu John Jackson

Mentor: Mahsa Keshavarz Sponser: Dr Toby Hocking Genetic disorders/diseases

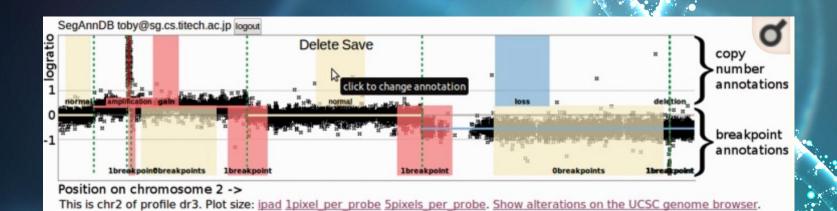
Who cares

Dr Hocking

- Assistant Professor at NAU
- Postdoctoral work at Tokyo
 Institute of Tech. And McGill Uni
- Researches how machine learning

can process genomic data





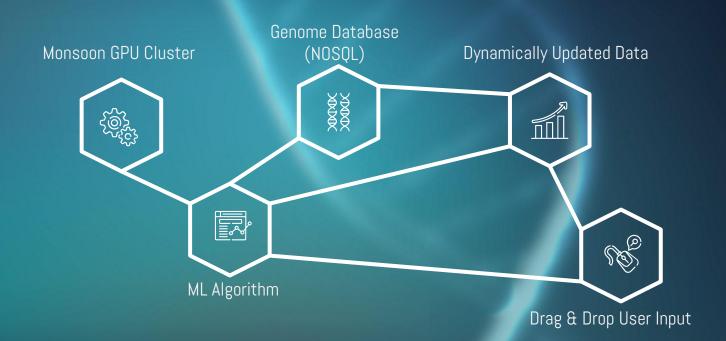
SegAnnDB: a point-and-click UI for annotating genomic data

Go to home profile dr3 an un-annotated chromosome.









Client Meetings



Weekly meetings focusing on each individual piece of solution chart

Goal: Subdivide each piece into clear manageable tasks

GPU Cluster (SLURM)



Set up small cluster to mimic Monsoon on small scale

Goal: Mini-Monsoon

UI Design



Make UI easy to use for scientists and look "clean" and "professional"

Goal: Make site look like other Genome Browser

Display Data Dynamically



Allow user to move and zoom over data. Bigwig Files => Data

Goal: "Snappy", movable, editable data model

