Afstudeer presentatie verslagen

1. Jurrien de Jong

Ankora web based diagnostic analyses tool.

He made a R shiny integration of the back end data to quickly compare different subset and or data and plot and compare them interactively with allot of features , it was well thought out an easy an intuitive to use, and for anyone to use without any coding knowledge .

He used his created tool which was the mean goal to answer a secondary goal (hypothesise)

1. What are the participants and app engagement statistics?

2. Does increased app engagement correlate with weight loss?

3. Which specific in-app interaction correlate most with weight loss?

Conclusion:

1. Increased app interaction is significantly associated with weight loss

2. Question and swipe able elements are associated with being the primary drivers of

weight reductions

3. Inconsistent effect of physical activity on weight loss

I found his presentation very good and thought out, the live demo of his web application was also very nicely done.

Personally this kind of works interest me the least but i did give me a better view on how bioinformatical can be used more for the broader non coding researchers, since my interest are more aligned to the pure analytical side and machine learning and a little less toe the web development side.

Orfeas

His presentative was about the further development of using eqtls derived from rna sequencing in tissue specific samples to discover more and new relevant connections.

And of these trans eqtls

He used public available rna sequence samples for blood liver and brain tissue.

Some of these steps where : rna sequencing > mapping of the reads > calling genotypes > genotyping and expression qc > imputing

The cons where a limited size because of heavy filtering steps needed from rna seq, testing of non coding and coding genes that reduced statistical power due to multiple testing corrections.

A question asked was : what is the reason for kinship filtering? To reduce the bias kinship introducec in the filtering steps.

And : how would u solve the power issue of trans eqtl research ? stricter gene selection and reduce variant testing.

Overall i was deeply interested in this research and was very helpful in determining my own goals for my internship.