

Progress Report

Pranav Bangarbale - 3/25/2022

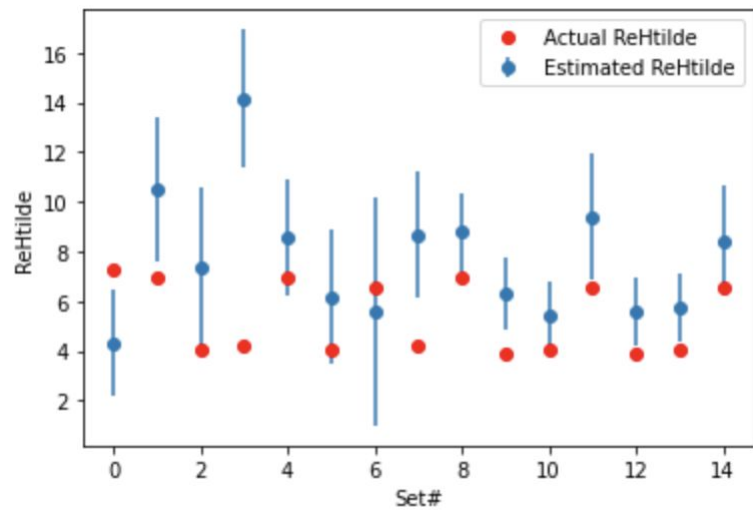
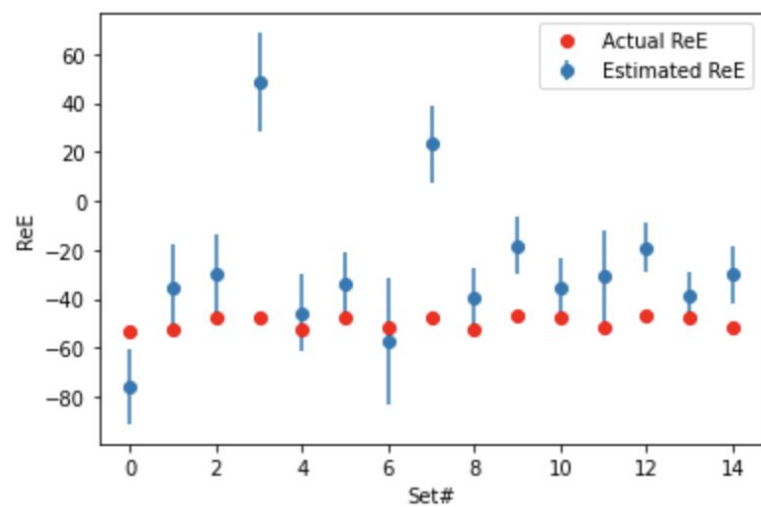
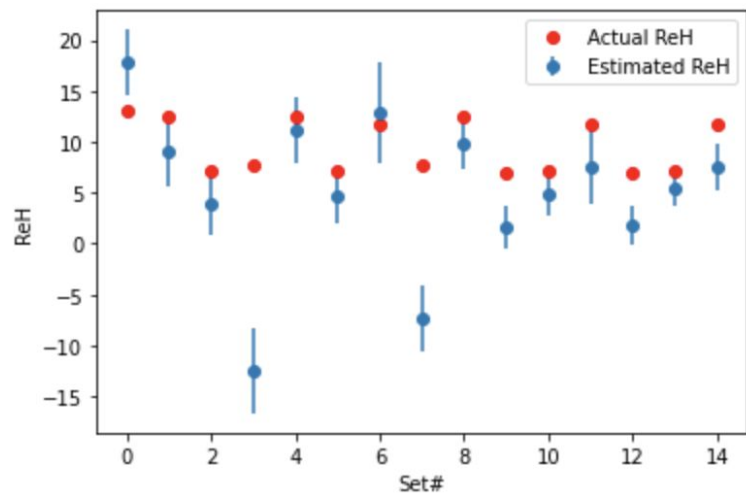
Last week

- Did some basic tests to see if the BKM-10 formalism (with pytorch to tensorflow code conversion) was working as intended
 - E.g. Method 2 “baseline” → no angle modification
- Started putting together scripts to generate plots for required angle modifications
 - Reduced phi (excluding small, large angle), reduced phi (evenly spaced but missing certain angles)

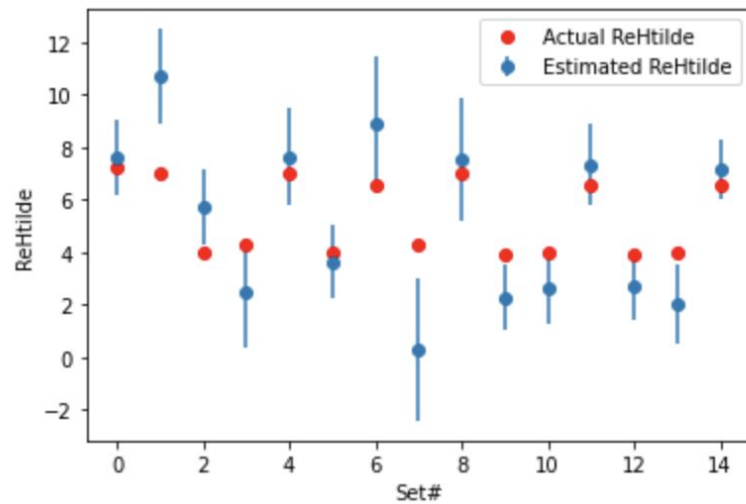
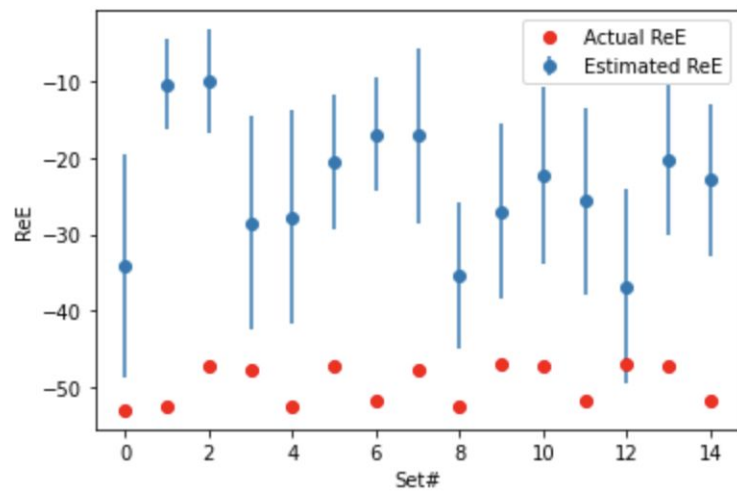
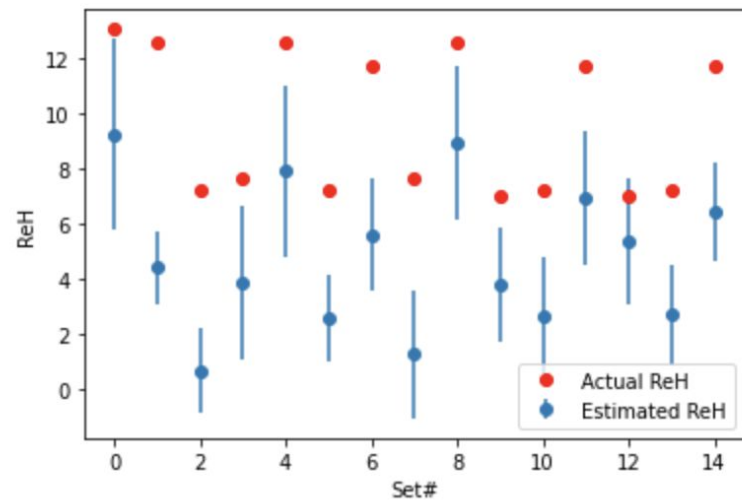
This week

- Used Zulkaida's hyperparameters to optimize BKM-10 training with Method 2
- Ran Method 2 w/BKM-10 for baseline and reduced-phi
- Generated plots
- For next week: even-phi plots

Baseline



Reduced-phi



Observations

- For BKM-10, reduced-phi seems to have similar results to VA formalism in comparison to a baseline Method 2
- ReE, ReH have significantly worse performance with reduced-phi angles
- ReHTilde has slightly worse performance with reduced-phi, but is much more stable than the former two
- Possibly, ReHTilde is a relatively phi-independent CFF to fit?