

Scott Dayton '23

Summer 2020

With Professor Yoonsang Lee, I have been looking into and coding Kalman, particle, and Ensemble Kalman filters, comparing their accuracies with a rotational 2d example, then implementing imperfect information and comparing errors once again. The goal of the research is to use the Ensemble Kalman Filter to estimate state values of high dimensional systems with imperfect observational information. This research is scheduled to continue throughout the Fall quarter as well, with an unclear end date.