

Meeting 4 August

Harriet Notes	Meeting Comments
<p>Forecast Uncertainty Hypothesis: I have a couple of hypotheses that I wanted to run past you guys. I am in the process of simulating different types of data to make example plots of the hypothesis (so far I have only done an ARIMA simulation). I have come up with a few hypothesis about current methods</p> <ol style="list-style-type: none"> 1. I think people will interpret all parts of the blue fan that are the same colour as equally likely, I think percentiles would be better identified by a trace plot 2. I think people would think an overly volatile outcome is more likely than an overly smoothed prediction 3. I think there are two kinds of uncertainty happening in a forecast, the point uncertainty (like what the fan shows) and the path uncertainty. <ol style="list-style-type: none"> a. I think the trace plot would make the path clearer 4. I think people would struggle to take the likelihood of the entire path into consideration <ul style="list-style-type: none"> - I think people would think an overly volatile plot is more likely than an overly smoothed plot - I wonder if people internally account for the time pattern 5. I think the trace will be better at showing multiple forecasts without becoming too cluttered 6. I think the fan would be better for a one step ahead forecast 7. Trace plots would be better at showing generally bizzare prediction cases like with bimodal data 8. I wonder if it's clear that the uncertainty is just as much a function of the model as it is a function of the data 	<p>Hypothesis notes</p> <ol style="list-style-type: none"> 1. Confidence intervals are discrete 3. Try designing experiments where people draw the paths given a realised path? 5. Scatter plot of each model (similar to correlation paper) 8. Try different plots that separate the components into different parts of the plot <p>Extra: Emi links</p> <ul style="list-style-type: none"> - Simulation: https://github.com/ykang/gratis - Draw perception of paths - https://github.com/srvanderplas/Perception-of-Log-Scales/tree/master/you-draw-it-development - https://distill.pub/2020/communicating-with-interactive-articles/#you-draw-it <p>Extra: Di Comments</p> <ul style="list-style-type: none"> - Want to be able to adjust the error type (add skew, from normal, etc) - Generally think of each model with some kind of trend, season, level and error - Fine to try the other simulations to understand what is happening
<p>Life (or alternative time holes)</p> <ul style="list-style-type: none"> - Trying to organise my housemates sublet :(- Finger surgery tomorrow. <ul style="list-style-type: none"> - Pain for a couple of days and worse mobility for a couple months - Grandad Funeral in a couple of weeks probably <ul style="list-style-type: none"> - Ill have to fly home for a weekend probably - It could be next weekend or in a month idk. 	