











- Forward population modelling challenging
- GP surrogate for LnL can help
- GP surrogate can use fewer training points to obtain similar posteriors
- ***Some Drawbacks:***
  - Need to retrain for new data
  - Tuning parameters?



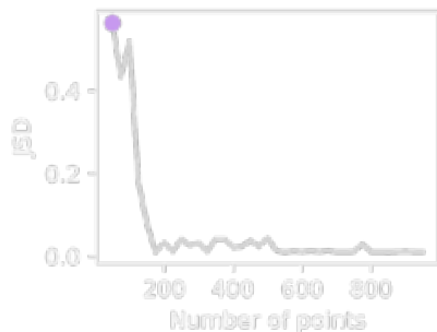
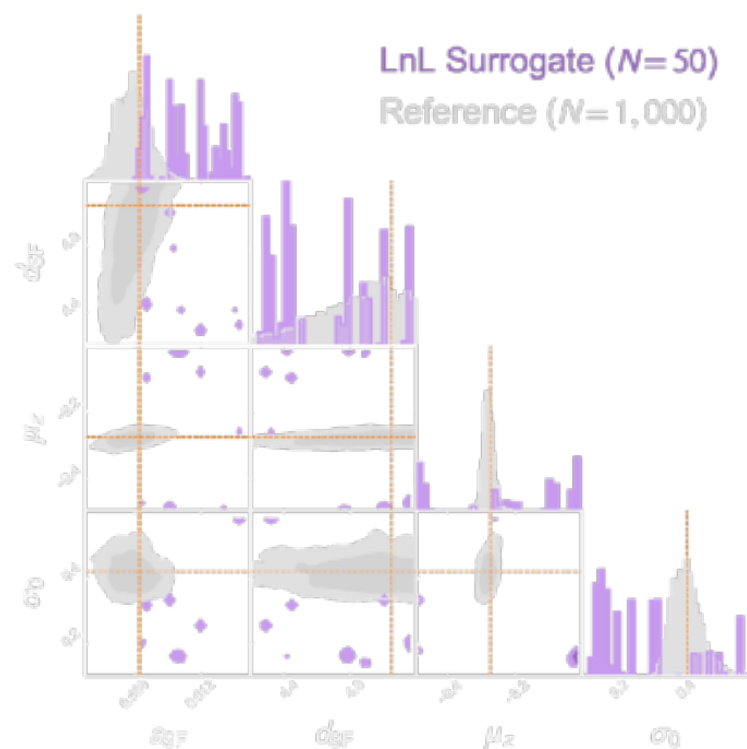
- Build a better acquisition function
- Increase  $\Delta$
- Determine COMPAS population sizes needed for different  $\Delta$





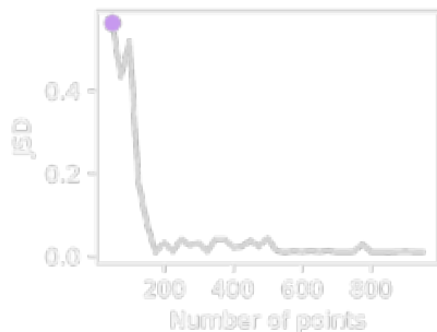
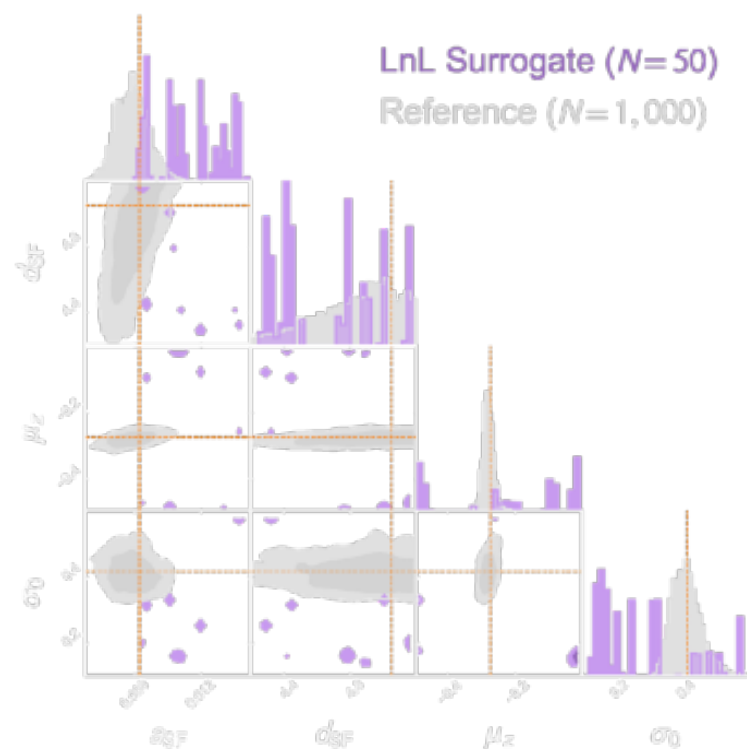
LnL Surrogate ( $N=50$ )

Reference ( $N=1,000$ )



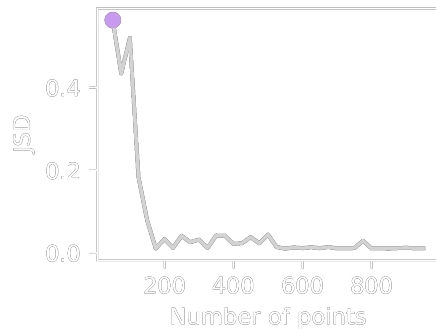
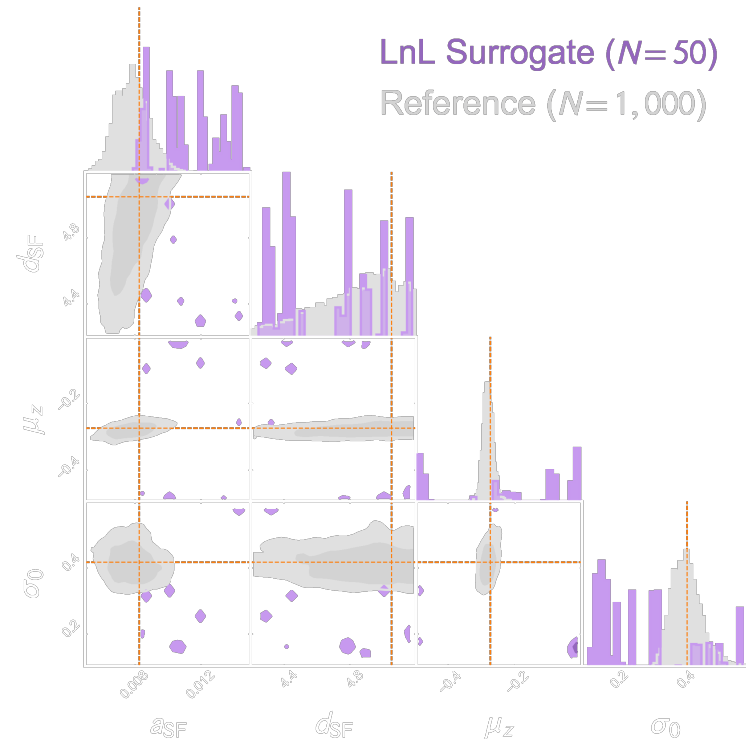
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to obtain similar posteriors

- GP surrogate can use fewer training points

- Forward population modelling challenging



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- *Some Drawbacks:*



Increase

- Determine COMPAS population sizes

needed for different

- Build a better acquisition function









EXTRA

PLOTS