

BDA Project: Hurricane forecasting in Stan

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- ▶ *Rapid intensification*: forecasted better by dynamical models
- ▶ This project: a *statistical* model for *intensity*

Hurricane forecasting basics: the SHIPS data

Hurricane forecasting basics: our selection

Intensity change predictive model

Model: limitations

Model: posterior predictive checking

Model: variables to use

Model: marginal posteriors of coefficients

Model: margin of SHRD and CSST

Forecasting

Forecasting: model comparison

Forecasting: what about the NHC?

Problems to solve & development ideas

Conclusions & contact info

Additional information

R Markdown

This is an R Markdown presentation. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document.

Slide with Bullets

- ▶ Bullet 1

Slide with Bullets

- ▶ Bullet 1
- ▶ Bullet 2

Slide with Bullets

- ▶ Bullet 1
- ▶ Bullet 2
- ▶ Bullet 3

Slide with R Output

```
summary(cars)
```

##	speed	dist
##	Min. : 4.0	Min. : 2.00
##	1st Qu.:12.0	1st Qu.: 26.00
##	Median :15.0	Median : 36.00
##	Mean :15.4	Mean : 42.98
##	3rd Qu.:19.0	3rd Qu.: 56.00
##	Max. :25.0	Max. :120.00

Slide with Plot

