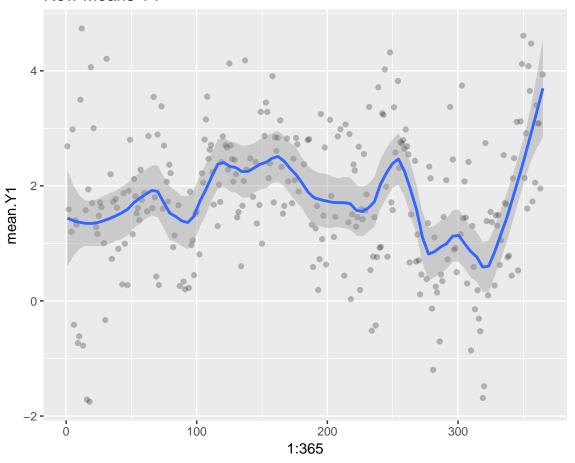
## Applied Bayesian Analysis : NCSU ST 540 $_{\rm Midterm2}$

 $Bruce\ Campbell$ 

## Row Means Y1



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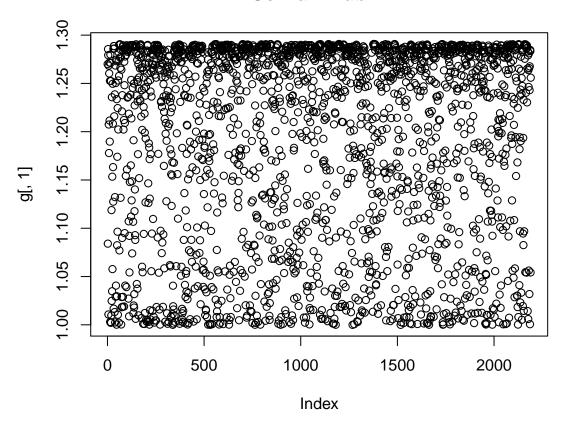
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## Abstracting Y1pred[351,2] ... 20000 valid values
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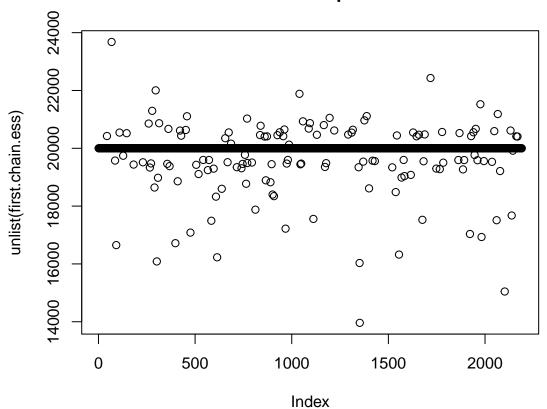
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## Abstracting Y1pred[351,3] ... 20000 valid values
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## Abstracting Y1pred[365,3] ... 20000 valid values
## Abstracting Y1pred[365,4] ... 20000 valid values
## Abstracting Y1pred[365,5] ... 20000 valid values
## Abstracting Y1pred[365,6] ... 20000 valid values
```

## Gelman-Rubin



## **Effective Sample Size**



## [1] "Y1pred[1,3]"
## [1] "Y1pred[1,4]"
## [1] "Y1pred[1,5]"
## [1] "Y1pred[2,1]"
## [1] "Y1pred[2,1]"
## [1] "Y1pred[2,2]"
## [1] "Y1pred[2,3]"
## [1] "Y1pred[2,4]"
## [1] "Y1pred[2,5]"
## [1] "Y1pred[2,6]"

## [1] "Y1pred[1,1]"
## [1] "Y1pred[1,2]"

## [1] "Y1pred[3,3]" ## [1] "Y1pred[3,4]" ## [1] "Y1pred[3,5]"

[1] "Y1pred[3,1]"
[1] "Y1pred[3,2]"

- ## [1] "Y1pred[3,6]" ## [1] "Y1pred[4,1]"
- ## [1] "Y1pred[4,2]"

```
## [1] "Y1pred[4,3]"
   [1] "Y1pred[4,4]"
```

- [1] "Y1pred[4,5]" ##
- [1] "Y1pred[4,6]"
- [1] "Y1pred[5,1]"
- [1] "Y1pred[5,2]"
- ## [1] "Y1pred[5,3]"
- ## [1] "Y1pred[5,4]"
- [1] "Y1pred[5,5]"
- ## [1] "Y1pred[5,6]"
- [1] "Y1pred[6,1]" ##
- [1] "Y1pred[6,2]"
- [1] "Y1pred[6,3]"
- [1] "Y1pred[6,4]"
- ## [1] "Y1pred[6,5]"
- [1] "Y1pred[6,6]"
- ## [1] "Y1pred[7,1]"
- ## [1] "Y1pred[7,2]"
- [1] "Y1pred[7,3]" ##
- [1] "Y1pred[7,4]"
- [1] "Y1pred[7,5]"
- ## [1] "Y1pred[7,6]"
- [1] "Y1pred[8,1]"
- [1] "Y1pred[8,2]" ##
- [1] "Y1pred[8,3]"
- [1] "Y1pred[8,4]" ##
- [1] "Y1pred[8,5]"
- [1] "Y1pred[8,6]"
- ## [1] "Y1pred[9,1]"
- [1] "Y1pred[9,2]"
- [1] "Y1pred[9,3]" ##
- ## [1] "Y1pred[9,4]"
- ## [1] "Y1pred[9,5]"
- [1] "Y1pred[9,6]"
- [1] "Y1pred[10,1]"
- [1] "Y1pred[10,2]"
- [1] "Y1pred[10,3]"
- [1] "Y1pred[10,4]" ##
- ## [1] "Y1pred[10,5]"
- ## [1] "Y1pred[10,6]"
- [1] "Y1pred[11,1]" ##
- [1] "Y1pred[11,2]"
- [1] "Y1pred[11,3]"
- [1] "Y1pred[11,4]"
- [1] "Y1pred[11,5]" ##
- ## [1] "Y1pred[11,6]"
- ## [1] "Y1pred[12,1]" ## [1] "Y1pred[12,2]"

```
## [1] "Y1pred[12,3]"
## [1] "Y1pred[12,4]"
## [1] "Y1pred[12,5]"
## [1] "Y1pred[12,6]"
   [1] "Y1pred[13,1]"
   [1] "Y1pred[13,2]"
   [1] "Y1pred[13,3]"
## [1] "Y1pred[13,4]"
   [1] "Y1pred[13,5]"
## [1] "Y1pred[13,6]"
## [1] "Y1pred[14,1]"
   [1] "Y1pred[14,2]"
   [1] "Y1pred[14,3]"
   [1] "Y1pred[14,4]"
##
   [1] "Y1pred[14,5]"
   [1] "Y1pred[14,6]"
##
   [1] "Y1pred[15,1]"
## [1] "Y1pred[15,2]"
## [1] "Y1pred[15,3]"
   [1] "Y1pred[15,4]"
   [1] "Y1pred[15,5]"
## [1] "Y1pred[15,6]"
   [1] "Y1pred[16,1]"
   [1] "Y1pred[16,2]"
##
## [1] "Y1pred[16,3]"
## [1] "Y1pred[16,4]"
   [1] "Y1pred[16,5]"
   [1] "Y1pred[16,6]"
## [1] "Y1pred[17,1]"
   [1] "Y1pred[17,2]"
   [1] "Y1pred[17,3]"
##
## [1] "Y1pred[17,4]"
## [1] "Y1pred[17,5]"
   [1] "Y1pred[17,6]"
## [1] "Y1pred[18,1]"
## [1] "Y1pred[18,2]"
   [1] "Y1pred[18,3]"
   [1] "Y1pred[18,4]"
##
## [1] "Y1pred[18,5]"
## [1] "Y1pred[18,6]"
## [1] "Y1pred[19,1]"
   [1] "Y1pred[19,2]"
## [1] "Y1pred[19,3]"
   [1] "Y1pred[19,4]"
   [1] "Y1pred[19,5]"
##
## [1] "Y1pred[19,6]"
## [1] "Y1pred[20,1]"
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## [1] "Y1pred[20,2]"

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## [1] "Y1pred[180,2]"

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- [1] "Y1pred[279,5]"
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- ## [1] "Y1pred[282,2]"
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- [1] "Y1pred[283,3]" ##
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- ## [1] "Y1pred[284,2]"

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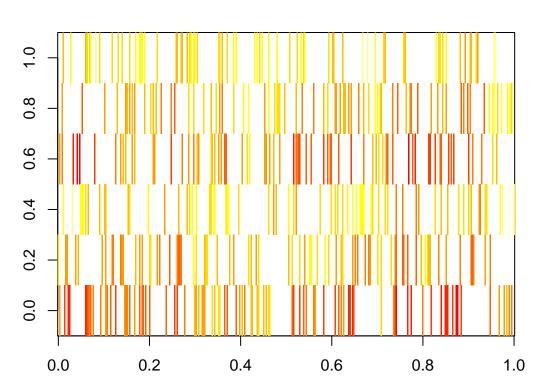
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   [1] "Y1pred[363,2]"
##
   [1] "Y1pred[363,3]"
##
   [1] "Y1pred[363,4]"
   [1] "Y1pred[363,5]"
##
## [1] "Y1pred[363,6]"
```

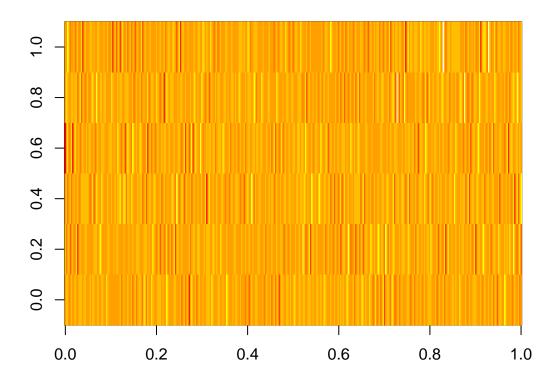
## [1] "Y1pred[364,1]" ## [1] "Y1pred[364,2]"

```
## [1] "Y1pred[364,3]"
## [1] "Y1pred[364,4]"
## [1] "Y1pred[364,5]"
## [1] "Y1pred[364,6]"
## [1] "Y1pred[365,1]"
## [1] "Y1pred[365,2]"
## [1] "Y1pred[365,3]"
## [1] "Y1pred[365,4]"
## [1] "Y1pred[365,5]"
## [1] "Y1pred[365,6]"
```

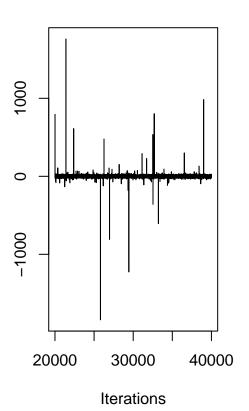




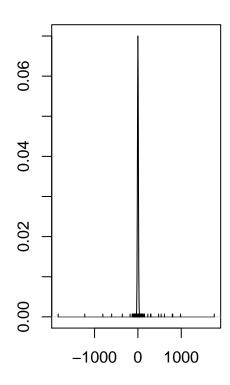
# Imputed



## Trace of var1

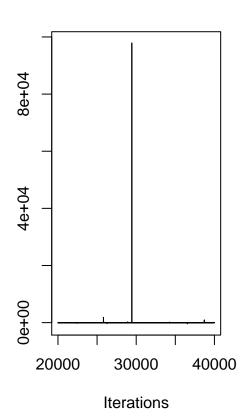


## Density of var1

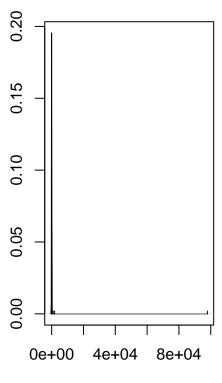


N = 20000 Bandwidth = 1.507

### Trace of var1



## Density of var1



N = 20000 Bandwidth = 1.5