## DMC@ISU: Iowa State University Data Mining Cup Team 2015

## Initial Exploration

Spring 2015, Iowa State

```
Due Date: April 14 2015
```

I am using the following packages:

```
library(ggplot2)
library(lubridate)
library(xtable)
library(foreach)
library(rCharts)
library(plyr)
library(dplyr)
library(gtools)
library(gtools)
```

and my working directory is set to dmc2015/ian.

## 0.1 Reading the Data

Read the data into R:

add the time features:

```
source("~/dmc2015/ian/R/TimeFeatures.R")

# Whatever you do to the training set
trn <- TimeFeatures(trn, "orderTime")
trn <- TimeFeatures(trn, "couponsReceived")

# try if you can to do the same to the test set
tst <- TimeFeatures(tst, "orderTime")
tst <- TimeFeatures(tst, "couponsReceived")</pre>
```

and identify orders as belonging to batches starting at every Tuesday at midnight and lasting for one week.