Variable Exploration

08 April, 2023

First Moment

```r
#importing dataset
lc = read.csv("../datasets/processed/lc.csv")

#importing window
suppressMessages(library(spatstat))
suppressMessages(library(sf))
load("../datasets/raw/BC_Covariates.Rda")
bc_window_sf = st_as_sf(DATA$Window)
```

```
## Loading required package: sp
```

```r
bc_window_owin = as.owin(bc_window_sf)

#converting to a ppp
lc_ppp = ppp(x = lc$decimalLongitude, # X coordinates
             y = lc$decimalLatitude, # Y coordinates
             window = bc_window_owin, # Observation window
             )
```

```
## Warning: 2 points were rejected as lying outside the specified window
```

```
## Warning: data contain duplicated points
```

```r
plot(lc_ppp, pch = 16, cols = "#046C9A", cex = 0.6)
```

```
## Warning in plot.ppp(lc_ppp, pch = 16, cols = "#046C9A", cex = 0.6): 2 illegal
## points also plotted
```

lc_ppp