$$\xi$$

```r
library(dplyr)
library(ggplot2)

load("data/lst_csi_mod_0_pred_0.RData")
```

```r
csi = as.numeric(names(lst_csi_mod_0_pred_0))
GeoMean_Results = NULL
GeoMean_Scores = NULL
for(i in 1:length(lst_csi_mod_0_pred_0)) {
  GeoMean_Results[i] = lst_csi_mod_0_pred_0[[i]]$GeoMean_Results
  GeoMean_Scores[i] = lst_csi_mod_0_pred_0[[i]]$GeoMean_Scores
}
```

```r
tib_csi = tibble(csi, GeoMean_Results, GeoMean_Scores)
```

```r
tib_csi %>%
  ggplot(aes(x = csi, y = GeoMean_Results)) +
  geom_line() +
  geom_point() +
  theme_bw() +
  ylab("Geometric mean for the results")
```
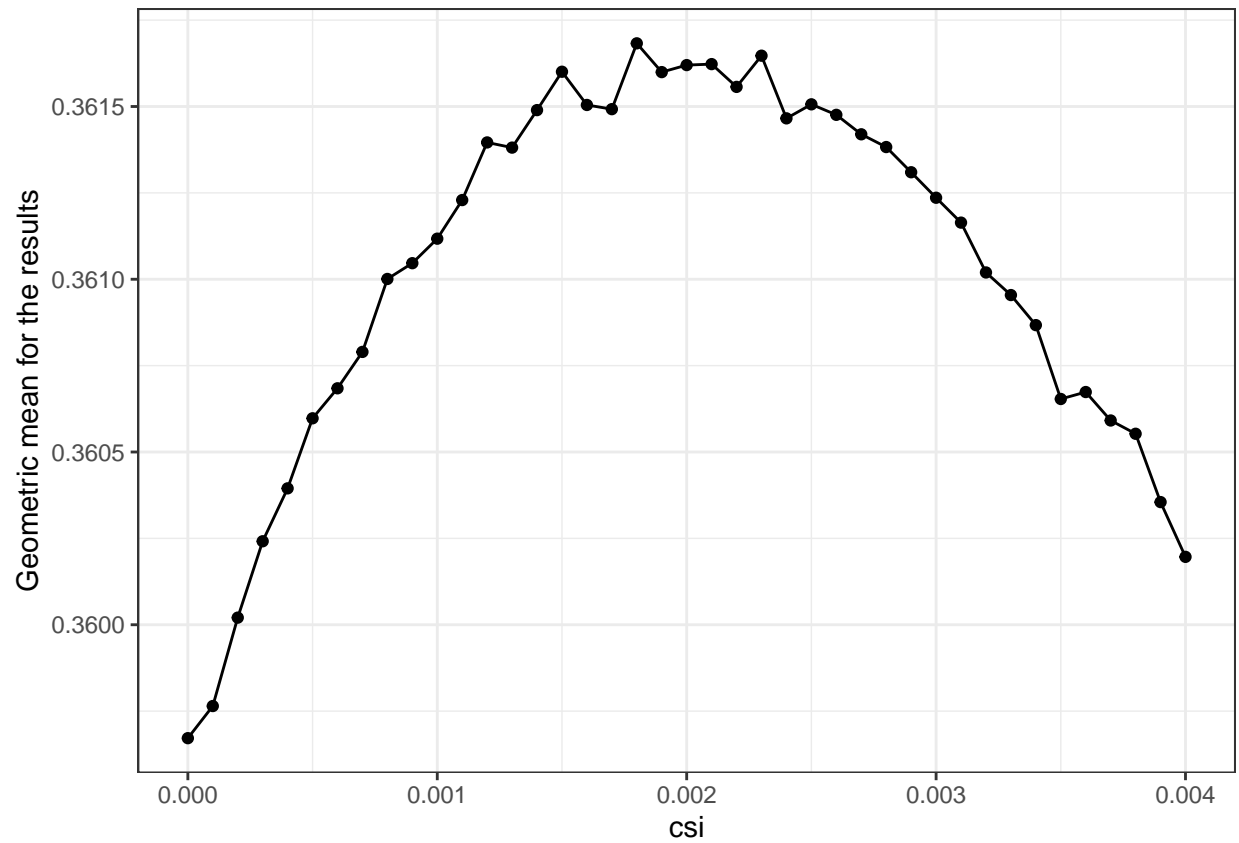
```
tib_csi %>%
  ggplot(aes(x = csi, y = GeoMean_Scores)) +
  geom_line() +
  geom_point() +
  theme_bw() +
  ylab("Geometric mean for the scores")
```
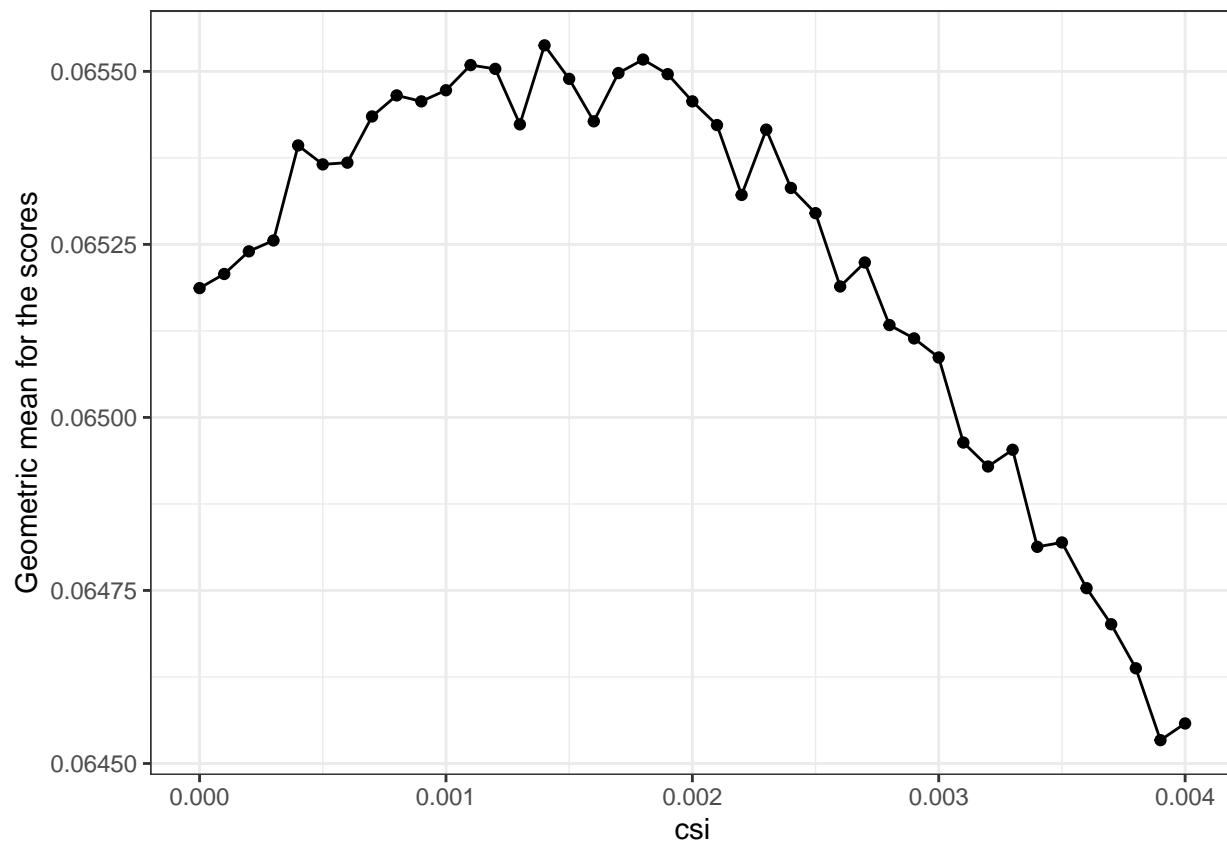
```
tib_csi %>%
  arrange(desc(GeoMean_Results))
```

```
## # A tibble: 41 x 3
##       csi GeoMean_Results GeoMean_Scores
##     <dbl>           <dbl>          <dbl>
##  1 0.0018           0.362         0.0655
##  2 0.0023           0.362         0.0654
##  3 0.0021           0.362         0.0654
##  4 0.002            0.362         0.0655
##  5 0.0015           0.362         0.0655
##  6 0.0019           0.362         0.0655
##  7 0.0022           0.362         0.0653
##  8 0.0025           0.362         0.0653
##  9 0.0016           0.362         0.0654
## 10 0.0017           0.361         0.0655
## # ... with 31 more rows
```

```
tib_csi %>%
  arrange(desc(GeoMean_Scores))
```

```
## # A tibble: 41 x 3
##       csi GeoMean_Results GeoMean_Scores
##     <dbl>           <dbl>          <dbl>
```

```
##  1 0.0014            0.361           0.0655
##  2 0.0018            0.362           0.0655
##  3 0.0011            0.361           0.0655
##  4 0.00120           0.361           0.0655
##  5 0.0017            0.361           0.0655
##  6 0.0019            0.362           0.0655
##  7 0.0015            0.362           0.0655
##  8 0.001             0.361           0.0655
##  9 0.0008            0.361           0.0655
## 10 0.0009            0.361           0.0655
## # ... with 31 more rows
```

```r
# Dixon & Coles csi
0.0065 / 3.5
```

```
## [1] 0.001857143
```