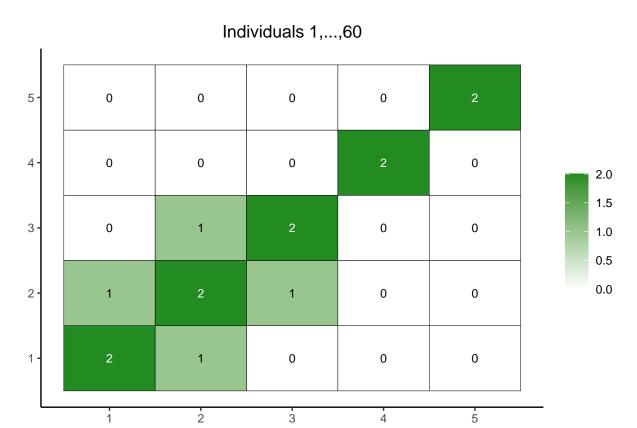
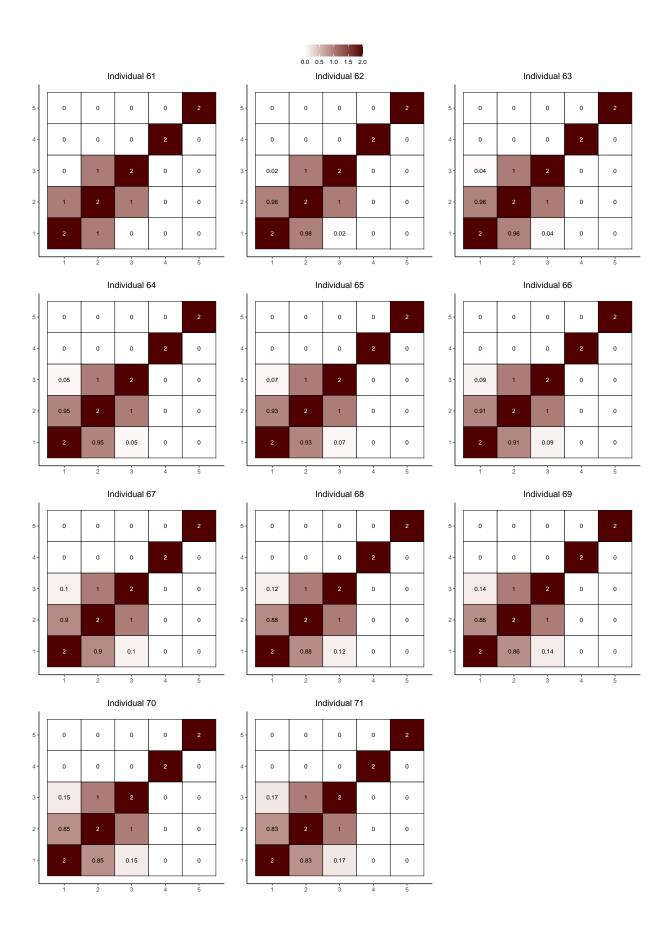
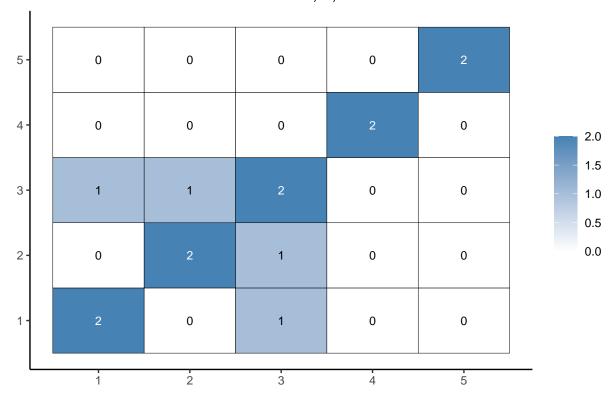
True Precision Matrices







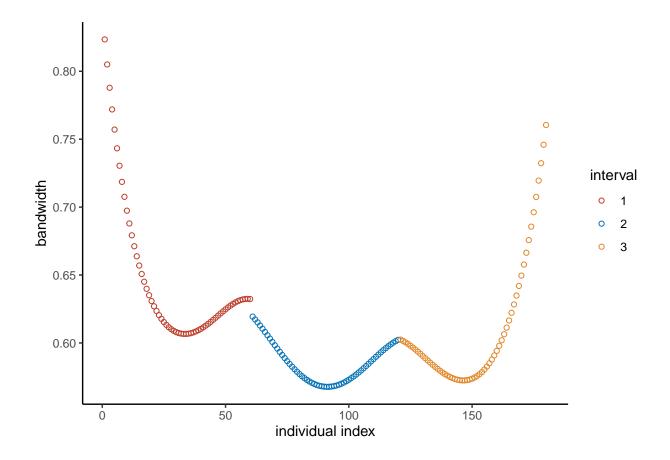


Bandwidth Analysis

The bandwidths for individuals $61, \dots, 71$ are listed below, along with summary statistics and visualizations for all of the estimated bandwidths.

```
out <- covdepGE(data_mat, Z, n_sigma = 200, parallel = T, num_workers = 6)</pre>
## Warning in covdepGE(data_mat, Z, n_sigma = 200, parallel = T, num_workers = 6):
## No registered workers detected; registering doParallel with 6 workers
out
##
                         Covariate Dependent Graphical Model
##
## Model ELBO: -90084.92
                                       Unique conditional dependence structures: 4
## n: 180, variables: 5
                                              Hyperparameter grid size: 200 points
## CAVI converged for 5/5 variables
##
## Model fit completed in 13.234 secs
round(out$bandwidths[61:71], 4)
  [1] 0.6194 0.6173 0.6151 0.6129 0.6105 0.6081 0.6057 0.6032 0.6008 0.5983
## [11] 0.5959
```

summary(out\$bandwidths)



```
ggplot(bw_tb, aes(bandwidth, fill = interval)) +
  geom_histogram(color = "black", binwidth = 0.02) + theme_classic() + ggsci::scale_fill_nejm()
```

