Wrangle COVID Project

Minutes for Monday July 20, 2020 - 1 PM - 2 PM PST via Microsoft Teams Meeting

Present: John Braun, Kaitlyn Hobbs, Ngan Lyle (Minutes), Shahrukh Alvi

Agenda

- PHU regions analysis presented (Ngan)
- Future work presented (KT)

Meeting Notes

PHU regions analysis

1 — Principal components regression

- MLR does not account for the fact that the response variables are bounded by 0 and 1
- Try logistic regression with numerator and denominator vs beta regression (John not familiar with this)
- Discussion about connecting predictor variables directly to outcomes using LASSO
  - Predictors reference a health region and there is question of how meaningful single variables are in characterizing a region
  - Try group LASSO where predictors can be categorized into groups

2 — Temporal analysis

- Consider trends relative to dates of policy change e.g. opening phases
- Can do this using indicator variables
- Need to account for lag effects

3 — Goals

- For Sept 30, 2020
- Create a national database
  - Quebec has the greatest number of cases
  - John has connections in Manitoba
  - BC and AB
- Publish
  - Website
  - R package
  - Small paper

Action Items

Scheduling and workflow

- Create a shared github repo (Ngan)

- Draft a schedule (next team meeting)

- Regular meetings with John (every 2 weeks)

- Regular team meetings (weekly or twice weekly?)

- Schedule a meeting with Patrick's team in 2 weeks on Aug 4 (Ngan)

Data wrangling and analysis

- Scrape and wrangle LTC and PHU data for BC (Ngan and KT)

- Refine statistical analysis (Shahrukh)

Absences

- Ngan is away working next week July 27 to Aug 31

- Shahrukh will be busy this week moving

Next Meeting:

- Team meeting Thursday July 23 at 10:30am on Microsoft Teams

- Meeting with John and Patrick Tuesday, August 4 at 10am PDT - 1pm EDT on Microsoft Teams