**Serologic testing of U.S. blood donations to identify SARS-CoV-2-reactive antibodies: December 2019-January 2020**

<https://watermark.silverchair.com/ciaa1785.pdf?token=AQECAHi208BE49Ooan9kkhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAArcwggKzBgkqhkiG9w0BBwagggKkMIICoAIBADCCApkGCSqGSIb3DQEHATAeBglghkgBZQMEAS4wEQQMw1pB-Uvj9pCwRlpNAgEQgIICarb5NM4sbKgTL_5LGyyeoRTB-aNgeiUKK0ywtmPk7ucyGVMdY2SsnanU1wFHGJjTxWQR8u1a37f2RnqA5LLpa6SiMhuDp83GpEn4AKwEMGn2LeSm2rcE2IUf0ui69kHWUEmyXH1vLdPfMF4I-IZXJXX22KaQqkj4gHALDvdomKTx-EGFhUJqEkxPJ_Ggg-iM0dnPyPDqiOcMcf3mBAbIWW4xPOFoqql1JpSbj0KurgTV5POS8Ol9cWjYangnv-1V7QTHA8xD-6G--E60LeZXoaeqSGMmdQgVbhO4mLJXkucUrISeQ7HAxIuaTBiqFYMSnnweHuZWMFtJzTlMmPGmsggotCdyAI0_0tJghEVGzuRE9hH5Ak9dVS_N9sPYUAZqwUXKVatFkoyPn9HDzWt7YHx2qa7Fe1tKmQ1mpdjlWuzdE0SUGXQTNy0uxIaDSIoqee_MwWgS0bii4xDU0dx2ULiczD6poWZ8FRzSetxZcMrWqjap_iA7KMtSab9yvZVw5tx_kfObDJhcb4vrHxSmob1sWrG-7RQgq0t5UxR0CqoRqXbD49HWsi9a-719t3jycO4MiKv_0dRzAtRV_NPaN2PDFXKg7a6Ohz1PPPsYq2f0LSXRaIVahlIzIL3DywjgDe1SoomygihJ7PRop1_spWJznMmJgk7Yue2upI1UZOpw620x4rI-bLl-TPaUbM8ayDTPzUL37j7ekE3ekFPaeggEf4D8_wmO0M61t9mryPb2hTlbhfvZCjpg98CUnHP2zJuqkS_icGoUSnQQoDqxM9DMjevX3aOLASbwKu46-SthDFyDOez_NS1f3A>

* Article asserts that the virus was present in the USA before Jan 19th, because blood donations received from Dec 13th to Jan 17th were tested for COVID-19 tests about a 100 of them reacted to it overall.
* Not exactly useful for us, but we can talk about this in our introduction and cite this article.
* Could do a possible analysis that involves trying to find a correlation between Antibody test marker and symptomatic/asymptomatic infections?

<https://covid19-projections.com/>

(Figure out how they get that R\_0 number to be variable instead of just be a constant value).

<https://rt.live/>

(We can get R\_t values per state)

**Psuedo-code**

Extract data from rt.csv

Each state R\_t value starts from a different date and goes to the day before the current date. Have to find a way to reconcile that. If we do that then the process is simple

Anyways extract average of each state’s R\_t from each day, and average that average to create a US-wide average.

Plug into model and profit.