

# Team East to West

Reproduce results from paper: [Mining Causal Topics in Text Data: Iterative Topic Modeling with Time Series Feedback](#)

1. Which tasks have been completed?  
Implemented one iteration of the paper.
2. Which tasks are pending?
  - Need to understand how the Mu weight works
  - Implement feedback loop
  - Calculate purity
    - Use purity as stopping criteria
3. Are you facing any challenges?
  - a. Calculating/implementing mu?
  - b. Granger Causality covariance warning
    - i. Calculating the word stream leads does not make a full rank matrix. We think this makes sense that this happens, but the paper doesn't mention what they do

```
/home/jagaskak/.local/lib/python3.8/site-packages/statsmodels/base/model.py:1832: ValueWarning: covariance of constraints does not have full rank. The number of constraints is 5, but rank is 0
warnings.warn('covariance of constraints does not have full ')
```