

- two state markov chain

- Chib 1996 code on \uparrow

① data & ② model

- panel
- hierarchical model
- time series

- within 10 days

- Recommendation system and what policy implication

- Something non standard that there is no procedure for it in SAS

- First should be always question, and only then select your estimation approach (① frequentist ② Bayesian)

- assumption about error term to select model

- interaction \rightarrow deterministic part

- asymmetry

- Question is what is simplest thing to do, and once you did it think about convincing people on why it is very complicated

- if your project does not lead to anything substantial for project at least find time series or cross section to use mixture model

- simplify the paper put 1, 2, 3, and then use paper and step by step translate it.

- most of question on job market presentation and Mkt sci. journals is about presenting your data through different papers.

- be clear why exactly you do it

- try not to be complex

- Either mixture normal or your project, but your project will be valued more

- Beyond the codes in class, at least combination of panel with logit

- Bayesian neural network could be A

- mixture normal is minimum

- something extra is needed for A

- final step is you put your data instead of simulated and get the estimates

- you have to make sure parameters fall into right space (2)

- you need to make sure that ^{for} parameter your estimated \hat{y} and real y Deliverable

- code and result of analysis \rightarrow it is sensible

\rightarrow MATLAB code is most important

\rightarrow not inform of publishable

put everything in table

- look at it as programming exercise

- you estimate ^{is} right thing

- your estimate on real data

- Wordnet (wn2sgl)
- Yaglo
- Lingpipe
- Think in terms of likelihood for new models ①
- mixture minimum (hidden markov) → panel data ②
- ③ Serial Correlation in product review (Don't forget dummies)

① Anti-corr
reviews
sales

② identification
problem
in behavioral
matter

③ Recommendation System
IS - entropy of info

- Change Subject to
how people share
info? who's interesting?

[Bayesian] 25 March

- Quantile gives the standard error in Bayesian - gives you confidence interval

- BLP 1984

① negative last

② social learning → what still learn

③ how reviews are put per day *

④ how many they see on last day

⑤ interaction

⑥ negative review vs. positive reviews

⑦ bias → time series { both reviews
both download

→ ⑧ Correlation → multi collinearity, variation

⑨ seasonality

→ ⑩ For final just implement new model

⑩ data & Prior Variance $10 \rightarrow \frac{100}{\text{variance}}$
 $1000 \rightarrow \frac{10,000}{\text{variance}}$

→ ⑪ narrow down

→ ⑫ 0.95 → Quantile check → Quantile
function

⑬ Seasonality → weekend dummy

⑭ - Versioning and learn during time would be
problem

→ ⑮ Why fluctuate over time → isolated
study would make problem review
questionable

⑮ Sha Yang → social learning
2012

⑯ learning individual, and at aggregate

every week print it

- interpret check mean SD should be

comparable = lower SD

Bayesian seminar next step

- ① interaction
- ② narrow down to significant factors
- ③ Data of usage of product whether reduced (Excel from website)