

# Results note

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*3/27/2018*

Data: country-years from 1995 to 2005, which is the limit of ITT data coverage. There are 152 unique countries (G&W codes). The number of observation is about 1600.

The plot is meant to show that while allegation of torture against different victim types within a country are generally positively correlated, there is substantial variation around this broader trend. In other words, not all countries that torture criminal or marginalized groups also torture dissidents.

## Modeling

Coefficient estimates from 4 models. All are Poisson count models and include country random effects. The first model has intercepts only, second adds GDP per capita and a binary indicator for democracy, derived from Cheibub, Gandhi, and Vreeland. The third and fourth models add latent judicial independence and legal system dummies, respectively.

In the fit table, note that the fit statistics for XGBoost are out of sample, while those for the count models are in sample.

outcome	model_name	AIC	BIC	MAE	RMSE
criminal	mdl1	7933.14	7943.97	2.20	4.14
criminal	mdl2	7645.30	7672.17	2.22	4.15
criminal	mdl3	7646.55	7673.41	2.20	4.13
criminal	mdl4	7653.23	7690.85	2.21	4.13
criminal	XGBoost	NA	NA	2.09	3.87
dissident	mdl1	7880.82	7891.66	2.29	4.60
dissident	mdl2	7270.28	7297.14	2.17	4.23
dissident	mdl3	7281.73	7308.59	2.16	4.22
dissident	mdl4	7298.70	7336.32	2.16	4.22
dissident	XGBoost	NA	NA	2.13	4.57
marginalized	mdl1	8703.53	8714.36	2.64	6.21
marginalized	mdl2	8269.87	8296.73	2.58	6.12
marginalized	mdl3	8276.50	8303.36	2.57	6.04
marginalized	mdl4	8281.95	8319.56	2.57	6.07
marginalized	XGBoost	NA	NA	2.49	6.64

## ITT allegations by victim type for select countries

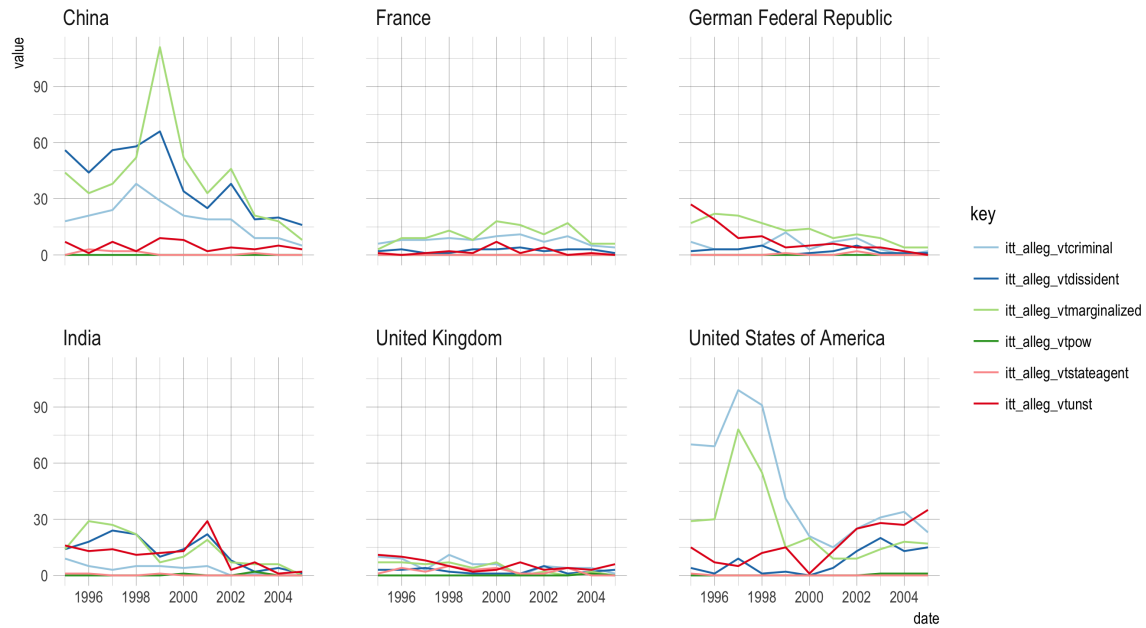


Figure 1:

## ITT level of torture by victim type for select countries

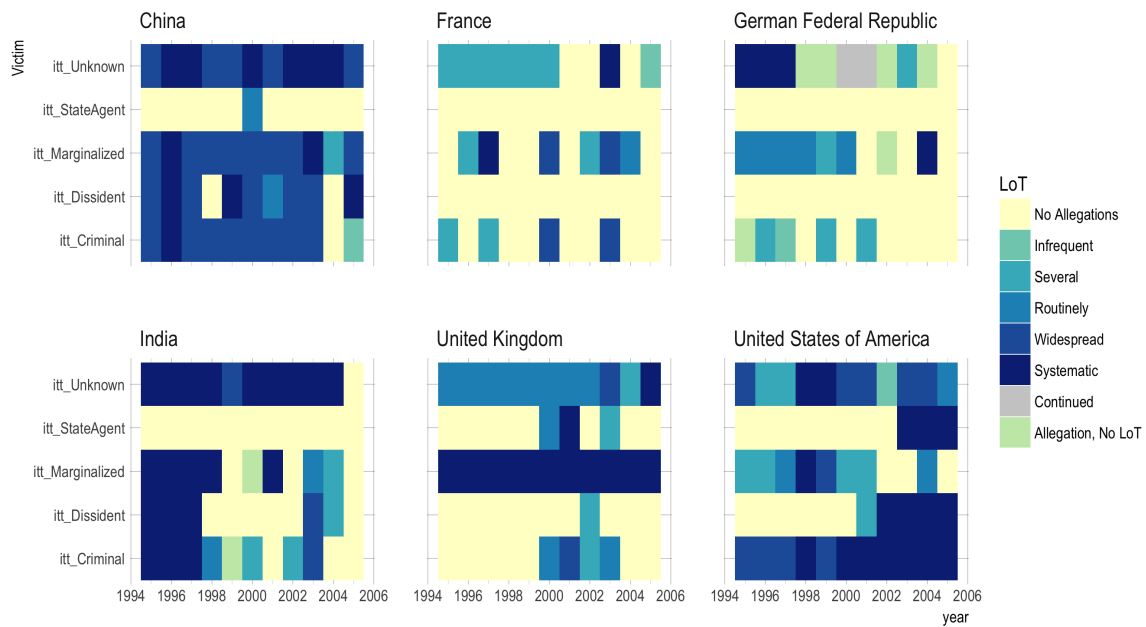


Figure 2:

### Allegations of torture against different types of victims are only loosely correlated within countries

Each line plots the number of allegations of torture for two victim types in a country from 1995 to 2005.

The slope of each line is the within-country correlation between the # of allegations of torture for those two victim types.

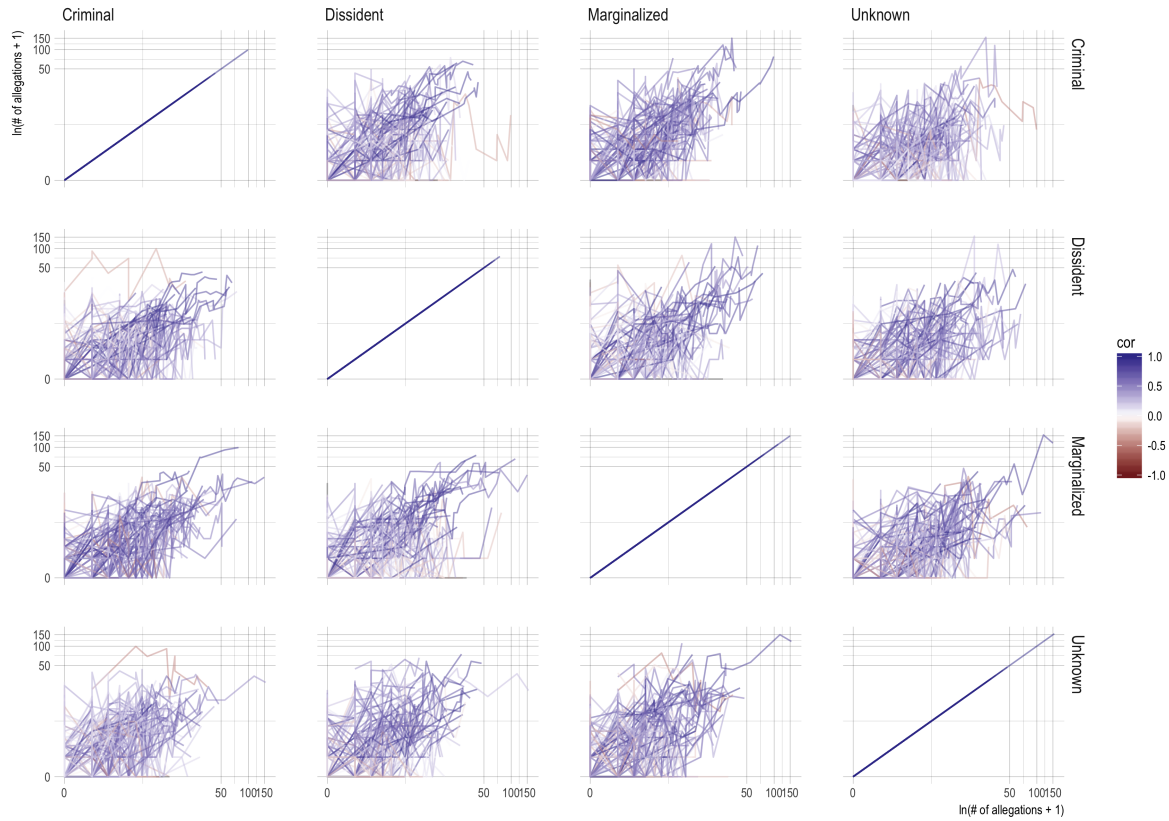


Figure 3:

### What we are trying to model

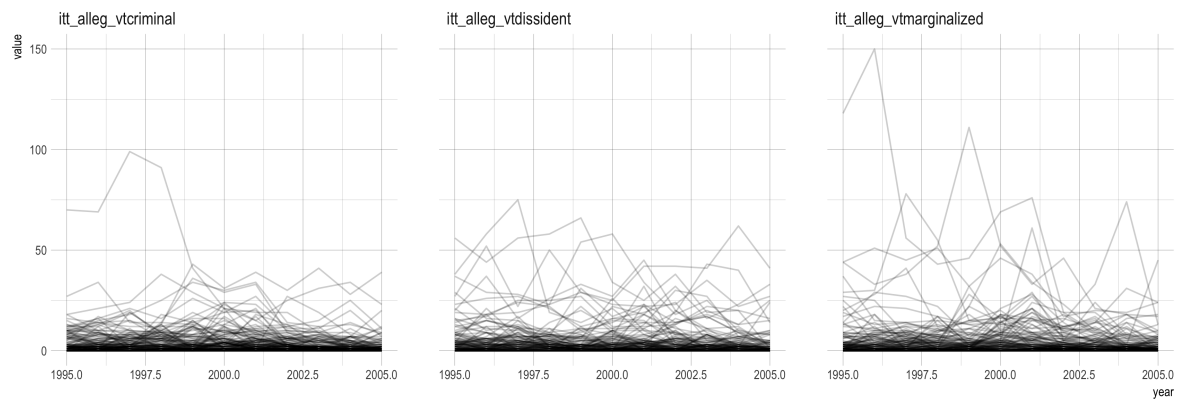


Figure 4: The three dependent variables, allegation counts by victim

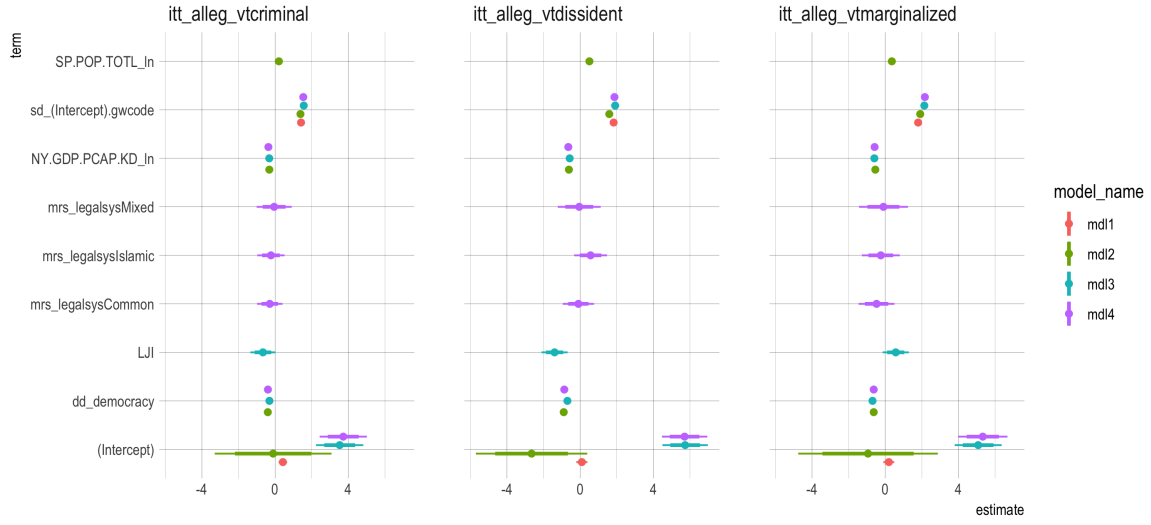


Figure 5:

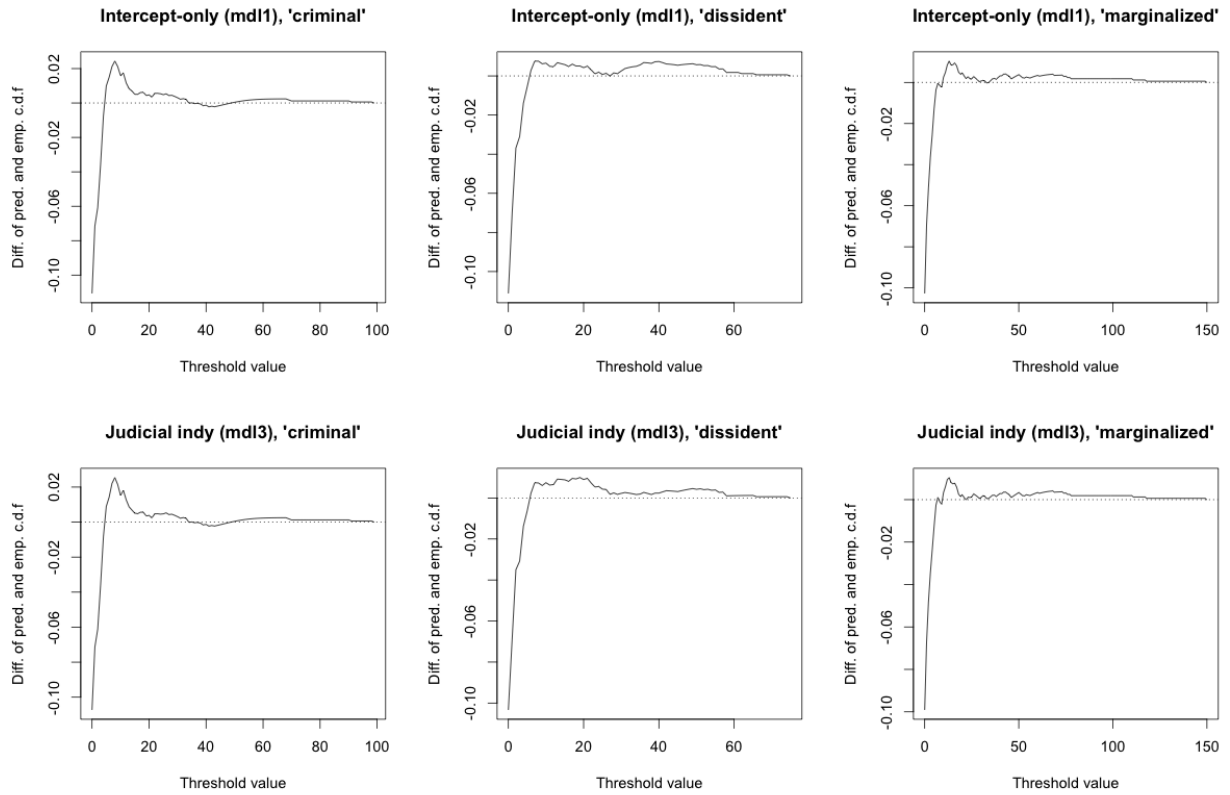


Figure 6: Marginal calibration plots, dont show much difference

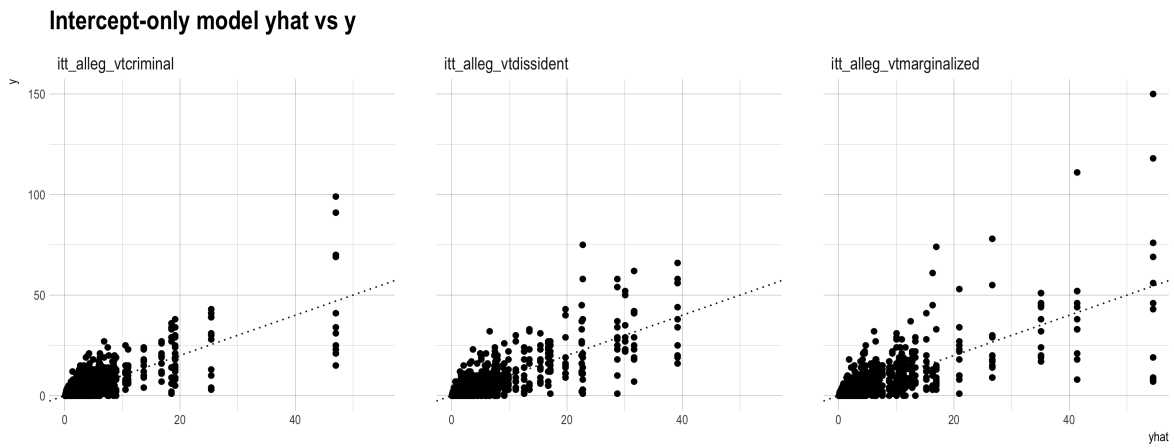


Figure 7: Predicted vs observed

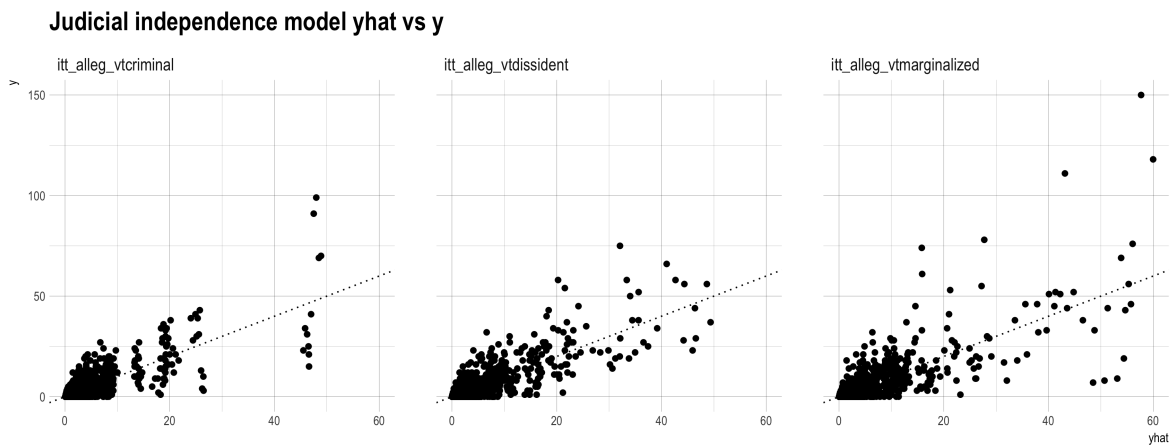


Figure 8: Predicted vs observed