

Online appendix for “Enforcing Boundaries: China’s Overseas NGO Law and Operational Constraints for Global Civil Society”

Meng Ye¹ and Andrew Heiss¹

¹Georgia State University

Author note

Meng Ye,  <https://orcid.org/0000-0002-6552-8338>

Andrew Heiss,  <https://orcid.org/0000-0002-3948-3914>

Online appendix for “Enforcing Boundaries: China’s Overseas NGO Law and Operational Constraints for Global Civil Society”

Model details and results

We use Stan (Stan Development Team 2023b, v2.26.1; 2023a, v2.3.1) through R (R Core Team 2023, v4.3.1) and **brms** (Bürkner 2017, v2.20.5) to estimate our ordered Beta regression models (Kubinec 2022). We simulate 4 MCMC chains with 2,000 draws in each chain, 1,000 of which are used for warmup, resulting in 4,000 (1,000 × 4) draws per model parameter. We assess convergence with visual inspection, and all chains converge. Complete results from all the models, along with posterior predictive checks, goodness-of-fit measures, and model diagnostics—as well as our code and data—are available `ANONYMIZED_URL`. We include the formal definition and priors for our model below.

Registered provinces for INGO i

Count of provinces \sim Ordered Beta($\mu_i, \phi_y, k_{1y}, k_{2y}$)

Model of outcome average

$$\begin{aligned} \mu_i = & \beta_0 + \beta_1 \text{ Issue[Arts and culture]} + \beta_2 \text{ Issue[Education]} + \\ & \beta_3 \text{ Issue[Industry association]} + \beta_4 \text{ Issue[Economy and trade]} + \\ & \beta_5 \text{ Issue[Charity and humanitarian]} + \beta_6 \text{ Issue[General]} + \\ & \beta_7 \text{ Issue[Health]} + \beta_8 \text{ Issue[Environment]} + \\ & \beta_9 \text{ Issue[Science and technology]} + \beta_{10} \text{ Local connections} + \\ & \beta_{11} \text{ Time since January 2017} + \beta_{12} \text{ Year registered} \end{aligned}$$

Priors

β_0	\sim Student t($\nu = 3, \mu = 0, \sigma = 2.5$)	Intercept
$\beta_{1..12}$	$\sim \mathcal{N}(0, 5)$	Coefficients
ϕ_y	\sim Exponential(1/100)	Variability in province count
k_{1y}, k_{2y}	\sim Induced Dirichlet(1, 1, 1), or $[P(\alpha_1), P(\alpha_1 + \alpha_2)]$	o-continuous and continuous-1 cutpoints (boundaries between 3 Dirichlet columns)

Table 1: Complete model coefficients

	(1)	(2)
Intercept	-0.22 [-0.83, 0.38]	-0.22 [-0.84, 0.43]
Issue [Arts and culture]	1.28 [0.49, 2.10]	1.29 [0.47, 2.14]
Issue [Education]	-1.12 [-1.80, -0.47]	-1.14 [-1.79, -0.45]
Issue [Industry association]	0.46 [-0.11, 1.04]	0.46 [-0.12, 1.06]
Issue [Economy and trade]	-0.17 [-0.72, 0.39]	-0.17 [-0.73, 0.45]
Issue [Charity and humanitarian]	-0.27 [-0.85, 0.33]	-0.26 [-0.89, 0.28]
Issue [General]	0.08 [-0.51, 0.70]	0.073 [-0.565, 0.704]
Issue [Health]	-0.23 [-0.89, 0.42]	-0.24 [-0.89, 0.41]
Issue [Environment]	0.27 [-0.38, 0.87]	0.25 [-0.37, 0.90]
Issue [Science and technology]	0.28 [-0.40, 0.92]	0.27 [-0.40, 0.96]
Local connections	-1.7 [-2.1, -1.2]	-1.9 [-2.7, -1.1]
Years since law	0.13 [-0.26, 0.50]	0.13 [-0.24, 0.50]
Year registered [2018]	-0.20 [-0.60, 0.26]	-0.19 [-0.62, 0.25]
Year registered [2019]	-0.31 [-1.21, 0.49]	-0.29 [-1.18, 0.50]
Year registered [2020]	-0.42 [-1.54, 0.93]	-0.42 [-1.64, 0.78]
Year registered [2021]	-0.073 [-1.603, 1.591]	-0.13 [-1.57, 1.58]
Local connections × years since law		0.10 [-0.21, 0.40]
φ	2.2 [1.8, 2.6]	2.2 [1.8, 2.6]
Num.Obs.	593	593
R ₂	0.202	0.203

Estimates are median posterior log odds from ordered Beta regression models; 95% credible intervals (highest density posterior interval, or HDPI) in brackets.

Coding rules for issue areas

Author 1 assigned each organization to one of the issue areas defined in Article 3 of the ONGO Law, and Author 2 cross-checked the coding for ambiguous cases. Organizations with multiple ROs are coded based on the overall issue area of the INGO, not the specific RO, so to ensure the issue area coding is consistent across ROs.

We followed these rules for categorizing INGOs’ stated missions into issue areas:

- **Education vs. Charity and humanitarian:** If charitable activities are all education related (e.g., building schools, donating education facilities and books), code as *Education*. If activities include other community support (e.g., building bridges, roads, medical facilities), code as *Charity and humanitarian*.
- **Economy and trade vs. Industry association:** If the trade promoted is focused on a particular industry (e.g., poultry, grains, etc.), code as *Industry association*.
- **Arts and culture:** Include sports organizations.
- **Industry association vs. Health & Science and technology & Arts and culture:** There are professional associations for health providers, scientific associations, and artistic industries. If activities go beyond only serving members only, code as *Health* or *Science and technology* or *Arts and culture*; if activities are limited to member-only service, code as *Industry association*.
- **Health vs. Charity and humanitarian:** If activities only provide medical assistance to underprivileged communities, code as *Health*.

Table 2: Comparison of the work of The Nature Conservancy and Greenpeace in China

	The Nature Conservancy	Greenpeace
Issue area	Environmental	Environmental
Presence in China	Office in Beijing since 1998	Office in Beijing since 2001
Home country	United States	The Netherlands
Legal status after ONGO Law	Became RO on November 17, 2017; approved to work in 27 provinces	Not registered as RO; has filed 67 temporary activities since June 2017
Work approach	Technical, non-confrontational, science-based focus	Advocacy and actions, peaceful protests, and creative confrontation
Relationship with government	Partnership, technical consultancy	Independent, no permanent allies or enemies
Example program	Provided policy makers with technical support to develop the China National Biodiversity Conservation Strategy and Action Plan (2011–2030)	Monitored and released independent investigation reports on the damages of Sinar Mas Group’s projects to natural forests in southern Yunnan

- **Charity and humanitarian vs. General:** If there are overlapping issue areas (e.g., poverty alleviation, education, health), code as *General*, then code the apparent primary issue area as a second work area.

Comparison of the cases of TNC and Greenpeace

Table 2 summarizes the cases of TNC and Greenpeace. In addition to confirming the correlation between issue area and operational space found in the statistical model, the cases highlight how government preferences exert influence on both the degree of contentious programming INGOs are allowed to undertake and the severity of legal restrictions INGOs can face.

References

- Bürkner, Paul-Christian. 2017. “brms : An R Package for Bayesian Multilevel Models Using Stan.” *Journal of Statistical Software* 80 (1). <https://doi.org/10.18637/jss.v080.i01>.
- Kubinec, Robert. 2022. “Ordered Beta Regression: A Parsimonious, Well-Fitting Model for Continuous Data with Lower and Upper Bounds.” *Political Analysis*, 1–18. <https://doi.org/10.31235/osf.io/2sx6y>.
- R Core Team. 2023. “R: A Language and Environment for Statistical Computing.” Vienna, Austria: R Foundation for Statistical Computing. <https://www.r-project.org/>.
- Stan Development Team. 2023a. “CmdStan: The Shell Interface to Stan.” <https://mc-stan.org/users/interfaces/cmdstan>.
- . 2023b. “Stan Modeling Language.” <https://mc-stan.org>.