# CoronaNet: A Dyadic Dataset of Government

# Responses to the COVID-19 Pandemic

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9 Abstract

Governments everywhere have implemented a broad range of policies that have been highly influential in shaping the COVID-19 pandemic. We present an initial public release of a large hand-coded dataset of over 10,000 separate policy announcements made in response to the pandemic across more than 190 countries. The dataset will be updated daily, with a 5-day lag for validity checking. We currently document policies across numerous dimensions, including the type of policy implemented; national vs. subnational enforcement; the specific group targeted by the policy; and the time frame within which the policy is implemented. We further analyze the dataset using a Bayesian measurement model which shows the quick acceleration of high-cost policies across countries beginning in mid-March and continuing to the present. While some relatively low-cost policies like task forces and health monitoring began early, countries generally adopted harsher measures within a narrow time window, suggesting strong policy diffusion effects.<sup>1</sup>

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<sup>&</sup>lt;sup>1</sup>We thank the very large number of research assistants who coded this data. Their names and affiliations are listed in the appendix. We also thank the Chair of International Relations at the Hochschule für Politik at the Technical University of Munich (TUM) for their support of this project and the TUM School of Management for their help in providing access to Qualtrics. For the most current, up to date version of the dataset, please visit <a href="http://coronanet-project.org">http://coronanet-project.org</a> and also our Github page at <a href="https://github.com/saudiwin/corona\_tscs">https://github.com/saudiwin/corona\_tscs</a>. Interested readers may also find our code for collecting the data and maintaining the database at the aforementioned Github page. For more information on the exact variables collected, please see our publicly available codebook here.

- Governments all around the world have implemented an astonishing number and variety of policies in reaction to the COVID-19 pandemic in a very short time frame. However, policy makers and researchers have to date
- <sup>27</sup> lacked access to the quality, up-to-date data they need for conducting rigorous analyses of whether, how, and
- to what degree these fast changing policies have worked in brunting the health, political and economic effects
- 29 of the pandemic. To address this concern, in this paper, we present the CoronaNet COVID-19 Government
- 30 Response Database which provides fine-grained, dyadic data on policy actions taken by governments across
- the world since the Chinese government reported the COVID-19 outbreak on December 31, 2019. At the
- time of writing, the dataset covers the policy actions of 196 countries<sup>2</sup> up until 2020-05-08, for a total of
- 33 12762 events.
- With the help of a team of over 220 research assistants in 18 time zones, we are releasing the data on
- <sup>35</sup> a daily basis. We are implementing a five-day lag between data collection and release to evaluate and
- 36 validate ongoing coding efforts for random samples of the data to ensure the best possible quality given the
- 37 considerable time constraints. More specifically, the CoronaNet database collects daily data on government
- policy actions taken against COVID-19 across the following dimensions:
- The type of government policy implemented (e.g. quarantine, closure of schools [16 total])
- The level of government initiating the action (e.g. national, provincial)
- The geographical target of the policy action, if applicable (e.g. national, provincial, municipal)
- The human or material target of the policy action, if applicable (e.g. travelers, masks)
- The directionality of the policy action, if applicable (e.g. inbound, outbound, both)
- The mechanism of travel that the policy action targets, if applicable (e.g. flights, trains)
- The compliance with the policy action (e.g. mandatory, voluntary)
- The enforcer of the policy action (e.g. national government, military)
- The timing of the policy action (e.g. date announced, date implemented)
- 48 We believe that this data will not only help policy makers and researchers better understand which policies
- 49 are more effective in addressing the spread and health outcomes of COVID-19 (Flaxman et al. 2020), it
- 50 will also permit crucial inference on the effects COVID-19 has had on societies and economies. Indeed,
- anecdotal evidence suggests that the pandemic has already had substantial consequences for the nature of
- <sub>52</sub> political institutions (Przeworski et al. 1999; Gailmard and Patty 2019), the stability of financial markets
- 53 (Kindleberger and Aliber 2011) and the way of life of billions of people (Tierney 2007). Data on government
- reactions to the COVID-19 pandemic can help provide systematic evidence of these effects. Moreover, it can
- 55 further help us better understand the determinants of these influential policies at both the structural (Svolik
- 56 2012; Kitschelt, Wilkinson, and others 2007) and interpersonal levels (Boin et al. 2016).

<sup>&</sup>lt;sup>2</sup>Note, we will include additional countries in future versions of the dataset.

Meanwhile, given the exogenous timing of the initial outbreak in Wuhan, China, government policies made in reaction to the COVID-19 pandemic constitute the single largest natural experiment in recent memory, allowing researchers to improve causal inference in any number of fields. Indeed, government reactions to the COVID-19 epidemic will have long-lasting implications on a wide-range of social phenomena, from the evolution of political institutions (Pierson 2000) to the progression of economic development (Nunn 2009; Kilian 2009; Noy 2009) to say nothing of its potential ramifications for environmental outcomes (Dasgupta et al. 2002; Folke 2006), mental health (Galea et al. 2003; Gifford 2014), or disaster preparedness (Blaikie et al. 2014). While scholars have always sought to understand how large-scale historical events have shaped contemporary phenomena, modern technological tools allow us to document such events more quickly and more precisely than ever before.

In what follows, we provide a description of the data, as well as an application of the data in which we model policy activity of countries over time. Using a Bayesian dynamic item-response theory model, we produce a statistically valid index that summarizes countries in terms of their response to the pandemic, and further shows how quickly policy responses have changed over time. We document clear evidence of rapid policy diffusion of harsh measures opposing the virus, indicating some of the most extensive evidence of this type of diffusion ever documented. In the methodology section, we provide a thorough discussion of the procedures used to collate the data and to manage the more than 220 research assistants coding this data around the world in real time.

### $_{\scriptscriptstyle{75}}$ Results

In this section, we first present some descriptive statistics which illustrate how government policy toward COVID-19 has varied across key variables. We then briefly present our new index for tracking how active governments have been with regards to announcing policies targeting COVID-19 across countries and over time.

#### 80 Descriptive Statistics

Here we present some descriptive statistics for key variables available in the data. Table 1 shows the number of records for each policy type, the number of unique countries for each policy type as well as how many countries are targeted in total by each policy type. We note that these are cumulative totals for these different categories in the data, except for the number of targeted countries, which is an average number. Table 1 also provides information on the degree to which a given policy must be complied with.

According to our data, the most common government policy implemented in reaction to COVID-19 is external border restrictions, i.e. policies that seek to limit access to ports of entry or exit across different governmental jurisdictions. We find that 186 countries have made 1064 policy announcements about such restrictions since December 31, 2019. Meanwhile, the second policy that most countries, by our count 169, have implemented is 'Closure of Schools', of which we document 1583 such policies. Governments have implemented 'Restriction of Non-Essential Businesses' policies with the second highest frequency; we document that 135 countries have implemented 1855 such policies. However, we note that a strict comparison of policy types by this metric is not perfect, given that, for example, there may be a need for more individualized policies regarding external border restrictions (given the number of countries which a government can restrict travel access to) as opposed to closing schools. In the next subsection, we provide a more rigorous method of comparing policies while taking their depth into account.

Meanwhile, our dataset also shows that virtually all countries in the world are a target of an external border restriction, quarantine measure, or health monitoring measure from another country. Moreover, a high percentage of policies documented in our dataset have mandatory enforcement. Table 1: Descriptive Information about the CoronaNet Government Response Dataset

Type	Total Number	Number of	Average	% With
	of Policies	Countries	Number of	Mandatory
			Targeted	Enforcement
			Countries	
Health Resources	2342	148	156	58
Restriction of	1855	135	135	93
Non-Essential Businesses				
Closure of Schools	1583	169	169	88
Quarantine	1102	161	206	88
External Border	1064	186	205	81
Restrictions				
Other	819	132	148	58
Public Awareness	609	137	137	27
Measures				
Restrictions of Mass	575	159	160	87
Gatherings				
Social Distancing	518	127	127	71
Restriction of	373	99	99	87
Non-Essential				
Government Services				
New Task Force, Bureau	345	104	104	100
or Administrative				
Configuration				
Declaration of Emergency	330	114	114	100
Health Monitoring	318	110	203	71
Internal Border	313	111	111	90
Restrictions				
Health Testing	283	98	120	64
Curfew	172	91	90	95
Hygiene	133	41	41	77
Anti-Disinformation	20	17	17	80
Measures				
Lockdown	6	5	5	83
Quarantine/Lockdown	2	2	1	100

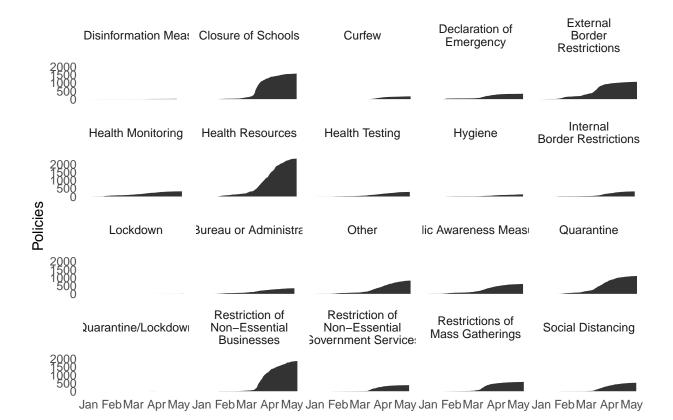


Figure 1: Cumulative Incidence of Policy Event Types Over Time

In addition, we can look at the cumulative incidence of different types of policies in our data over time, as we show in Figure 1. The figure shows that relatively easy to implement policies like external border restrictions, the forming of task forces, public awareness campaigns, and efforts to increase health resources came relatively earl in the course of the pandemic. More restrictive policies like curfews, closures of schools, restrictions of non-essential businesses and restrictions of mass gatherings arrived later.

We can also explore the extent to which other countries are affected by policies that can have a geographic target outside the policy initiator (e.g. 'external border restrictions', 'quarantine') across time. For example, in Figure 2, we map a network of bans on inbound flights to European countries initiated by European countries<sup>3</sup> as of March 15, 2020. In the plot, each horizontal line represents a potential geographical target of a flight ban. The vertical lines denote whether there was such a flight ban and the arrow of the vertical line indicates the direction in which the ban is applied.<sup>4</sup> The figure shows that by March 15, 2020, the

<sup>&</sup>lt;sup>3</sup>In this paper, the following countries are defined as being in Europe: Albania, Andorra, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom, and the Vatican.

<sup>&</sup>lt;sup>4</sup>See Longabaugh (2012) for more information on how to interpret this plot.

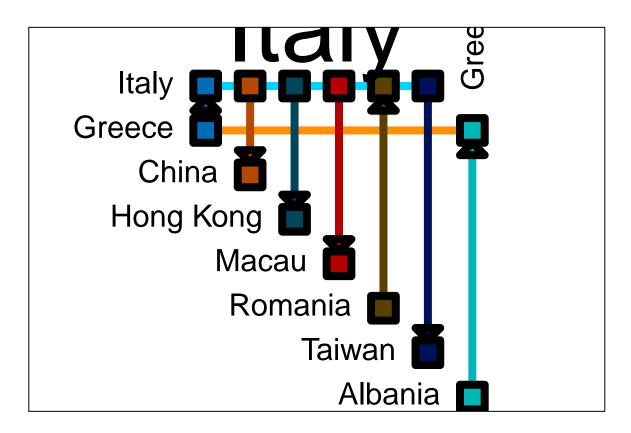


Figure 2: Network Map of Bans on Inbound Flights by European Countries as of March 15, 2020

governments of Poland and San Marino had banned all flights into Poland and San Marino respectively while
the government of Italy banned incoming flights from China, Hong Kong, Macau and Taiwan. Additionally,
the governments of Greece and Romania both banned flights from Italy while the government of Albania
banned incoming flights from Greece. According to our data, up until this point in time, no other European
governments at the national level had banned inbound flights from other countries.<sup>5</sup>

## Government Policy Activity Index

In this section, we briefly present our new index for tracking the relative government activity with regards to policies targeting COVID-19 across countries and over time. The model is a version of item-response theory known as ideal point modeling that incorporates over-time trends (Kubinec 2019; Clinton, Jackman, and Rivers 2004; Bafumi et al. 2005; Martin and Quinn 2002), permitting inference on how a latent construct, in this case total policy activity, responds to changes in the pandemic. To fit the model, the different policy had banned flights from Denmark, Finland, France, Germany, Spain, and Switzerland while the government of Sardinia, Italy closed all airports by March 15, 2020.

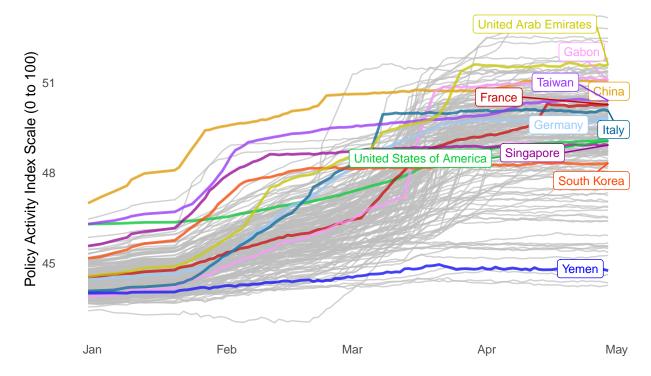
types shown in Table 1 were coded in terms of ordinal values, with lower values for sub-national targets
of policies and higher values for policies applying to the entire country, or in the case of external border
restrictions, to one or more external countries. For instance, internal country policies can take on three
possible values: no policy, sub-national policy, or policy covering the whole country. Meanwhile external
border restrictions can take on four possible values: no policy, policy targeting one other country, policy
targeting multiple countries, and policy targeting all countries in the world (i.e., border closure).

We employed ideal point modeling because it can be given a latent utility interpretation (Clinton, Jackman, and Rivers 2004). The model assumes that countries are located in a latent space in which the distance 129 between countries and policies represents the relative cost of imposing different policies. As countries become 130 more willing to pay these costs, i.e. their ideal points/policy activity score rises, they then subsequently 131 implement more policies. This interpretation is similar to the traditional item-response theory approach for 132 analyzing test questions in which students who answer more questions on a test are considered to have higher "ability" (Takane and Leeuw 1986; Reckase 2009). Following this logic, we are able to estimate latent country 134 scores that represent the readiness of a country to impose a set number of policies. The cost of policies is 135 estimated via discrimination parameters, which indicate how strongly policies discriminate between countries (in other words, are an indication of relative cost).

The country-level policy activity score is further allowed to vary over time in a random-walk process with a country-specific variance parameter to incorporate heteroskedasticity (Martin and Quinn 2002). Incorporating over-time trends explicitly is very important for capturing the nuances of policy implementation over time. For example, countries that impose more restrictive policies at an earlier date will be rewarded with higher policy activity scores compared to those who impose such policies at a later date. Imposing a given policy when most countries have already imposed them will result in little if any change in the policy activity score.

The advantage of employing a statistical model, rather than simply summing across policies, is that the index ends up as a weighted average, where the weights are derived from the probability that a certain policy is enforced. In other words, while many countries set up task forces, relatively few imposed curfews at an early stage. As a result, the model adjusts for these distinctions, producing a score that aggregates across the patterns in the data.

Furthermore, because the model is stochastic, it is robust to some of the coding errors of the kind that often occur in these types of datasets. As we discuss in our validation section, while we are continuing to validate the data on a daily basis, the massive speed and scope of data collection means that we cannot identify all issues with the data in real time. However, the measurement model employed only requires us to assume that on average the policy codings are correct, not that they are correct for each instance. Coding error,



Estimates are derived from Stan, a Markov Chain Monte Carlo sampler. The intervals represent the median and 5% – 95% posterior density region.

Plot shows one estimate per country per day.

Figure 3: CoronaNet Time-Varying Index of National Policy Activity of Measures Opposing COVID-19 Pandemic

such as incorrectly selecting a policy type, will propagate through the model as higher uncertainty intervals, but will not affect average posterior estimates. As our data quality improves, and we are able to collect more data over time, the model will produce more variegated estimates with smaller uncertainty intervals.

Figure 3 shows the estimated index scores for the 196 countries in our dataset at present, and suggests strong evidence of policy diffusion effects. While information about COVID-19 existed at least as early as January, we do not see large-scale changes occurring in activity scores until March. Furthermore, the trajectories are highly non-linear, with a large number of countries quickly transitioning from relatively low to relatively high scores. This tandem movement is a strong indication of policy diffusion as countries adopted similar policies across time and space as opposed to a more linear learning process.

Of course, a caveat with the index is that we may be missing some possible policy measures that have occurred
due to the difficulty in finding them in published sources. However, there is still clear differentiation within
the index in terms of when policies were imposed, with some countries starting to impose policies much
earlier than others. Furthermore, there is a clear break about March 1st when countries began to impose
more stringent policies across the world.

Table 2 shows the discrimination parameters from the underlying Bayesian model for each policy type. These parameters suggest which policies governments find relatively difficult or costly to implement, and for that reason tend to separate more active from less active states in terms of response to COVID-19. Two of these policies (Closure of Restaurants and Quarantine at Home) were given fixed values in order to identify the direction and rotation of the latent scale, and so their discrimination parameters are not informative. However, the rest of the parameters were allowed to float, which provides inference as to which policies appear to be the most difficult/costly to implement.

We note that these are average values for the sample. Imposing these policies may be less costly for certain countries or for countries that share certain characteristics, such as smaller numbers of enrolled students or relatively healthy economies. However, it is important to note that we can see these patterns on a world-wide scale.

Surprisingly, at the top of the index we see school closure as the most difficult/costly policy to implement.

Closure of pre-schools, though, as opposed to other school types, appears to be relatively less costly for
states to undertake, perhaps because pre-schools do not operate on a full-time basis. Generally speaking,
the next most difficult policies are various business closure policies and mandatory social distancing policies.

Internal border restrictions are considered more difficult to implement than external border restrictions,
while relatively straightforward policies like public awareness campaigns, health monitoring and opening
new task forces or bureaus are near the bottom of the index.

Given this distribution of discrimination parameters, we believe the index is a valid representation of the underlying process by which governments progressively impose more difficult policies. As states relax policies, we will further gain information about which policies appear to be more costly as we will be able to factor in the duration for which these policies were implemented. Consistent with our findings, we observe that the announced relaxation policies happening at the time of writing in European countries primarily center on businesses and school openings, suggesting that these policies are uniquely costly to keep in place compared to travel restrictions.<sup>6</sup>

Table 2: Discrimination of Item Parameters (Policies) in Policy Activity Index

Policy	5% Low	Median	95% High
	Estimate	Estimate	Estimate

 $<sup>^6\</sup>mathrm{See}$ Doherty, Ben. "The exit strategy: countries around the world how are Covid-19." after TheGuardian18 April 2020, https://www.theguardian.com/world/2020/apr/19/ the-exit-strategy-how-countries-around-the-world-are-preparing-for-life-after-covid-19

Closure of Shopping	1.5	1.7	2.0
Malls			
Restriction of	1.5	1.7	1.9
Non-Essential Busi-			
$nesses\_type\_commerce$			
Closure of Retail Stores	1.3	1.5	1.8
Closure of Personal	1.2	1.4	1.6
Grooming			
Primary School Closure	1.1	1.3	1.4
High School Closure	1.1	1.2	1.4
Higher Ed Closure	1.0	1.1	1.2
Restriction of	0.9	1.1	1.2
Non-Essential			
Businesses_			
Sanitizer Policies	0.9	1.0	1.2
Closure of Restaurants	1.0	1.0	1.0
Quarantine At Home	1.0	1.0	1.0
Pre-school Closure	0.9	1.0	1.1
Health	0.8	0.9	1.1
Resources_volunteers			
Health Staff	0.8	0.9	1.0
Restrictions of Mass	0.8	0.9	1.0
Gatherings_			
Test Production	0.7	0.8	1.0
Health	0.7	0.8	1.0
Resources_Doctors			
Health Resources_Nurses	0.7	0.8	1.0
Internal Border	0.7	0.8	0.9
Restrictions_			
Limited Quarantine	0.6	0.8	1.0
Health Resources_	0.7	0.8	0.9
Social Distancing_	0.7	0.8	0.9

Health	0.6	0.8	0.9
Resources_Unspecified			
Health Infrastructure			
Other Health Resources	0.6	0.8	0.9
Health	0.6	0.8	0.9
Resources_ventilators			
Masks Policies	0.6	0.7	0.9
Restriction of	0.6	0.7	0.8
Non-Essential			
Government Services_			
Health Re-	0.5	0.7	0.8
$sources\_other\_facilities$			
Health	0.5	0.6	0.8
Resources_Personal			
Protective Equipment			
External Border	0.6	0.6	0.7
Restrictions_			
Health	0.5	0.6	0.7
Resources_Hospitals			
$Quarantine/Lockdown\_Other$	0.5	0.6	0.7
Quarantine			
Quarantine/Lockdown_hot	0.5	0.6	0.7
Curfew_	0.5	0.5	0.6
Health Re-	0.4	0.5	0.7
sources_health_research			
Declaration of	0.4	0.5	0.6
Emergency_			
Temporary Medical Units	0.3	0.5	0.6
Quarantine/Lockdown_	0.3	0.4	0.6
Health	0.3	0.4	0.5
Resources_quar_facility			
Health	0.3	0.4	0.5
Resources_public_tests			

Quarantine in Govt.	0.3	0.4	0.5
Facility			
External Border	0.3	0.4	0.5
$Restrictions\_health\_cert$			
Health Monitoring_	0.3	0.4	0.4
Public Awareness	0.3	0.3	0.4
Measures_			
External Border	0.3	0.3	0.4
Restrictions_Visa			
restrictions (e.g. suspend			
issuance of visa)			
Health Testing_	0.3	0.3	0.4
New Task Force, Bureau	0.2	0.3	0.4
or Administrative			
Configuration_			
External Border	0.0	0.2	0.5
Restrictions_Other			
External Border			
Restriction			
Border Health Screenings	0.2	0.2	0.3
External Border	0.1	0.1	0.2
Restrictions_travel_hist			

## $^{_{194}}$ Methods

<sup>195</sup> In this section, we first describe the variables that our dataset is able to provide as well as how they are

organized. We then provide detail on the methodology we employed to collect the data.

#### 197 Data Schema

Each policy records at the minimum, the following monadic information: the policy type, the name of the country from which a policy originates, the degree to which a policy must be complied with, the entity 199 enforcing the policy, and the date a policy is announced, implemented and ends. When a policy is dyadic in 200 nature, the database further documents information about the geographic target of the policy, the human or 201 material target of a policy, the directional flow of the policy, and the mechanism of travel. Where applicable, all of the information documented above is also provided qualitatively via a textual policy description. 203 Additional meta-data that is available for all policies include when the record entered into the database and 204 a link for the information source for the policy. See the appendix for a list of currently available fields in the 205 data, along with a list of external data variables such as country-level covariates that are added in to daily releases, including COVID-19 tests and cases. 207

There is a unique record ID for each unique policy announcement, which we code at the policy sub category type. Of the 12762 such events in the dataset, we have identified 10955 unique events. That is, some events in the database are updates or changes to existing policies. We link such events over time using a unique ID, which we term the policy ID as opposed to the record ID. An event counts as an update if it deals with a change in either the:

1. Time duration or <sup>10</sup>

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- 2. Strength of an existing policy in terms of either:
- a. the nature of the policy 11
- b. compliance rules for the policy<sup>12</sup>
  - c. who the policy applies towards<sup>13</sup>

A policy counts as a new entry and not an update if it deals with a change in any other dimension, e.g. policy
type, targeted country.

<sup>&</sup>lt;sup>7</sup>If the policy originates from a province or state, that information is also documented. Future versions of the dataset will also include information on whether a policy was initiated from a city or municipality or another level of government.

<sup>&</sup>lt;sup>8</sup>Note that sometimes policies are announced without a pre-determined end date. In those cases, this field is left blank.

<sup>&</sup>lt;sup>9</sup>That is, some policy types are further categorized into sub-categories. E.g. 'Quarantine/Lockdown' can be further classified into one or more of the following sub categories: 'Self-Quarantine', 'Government Quarantine', 'Quarantine outside the home or government facility', 'Quarantine only applies to people of certain ages' and 'Other'.

<sup>&</sup>lt;sup>10</sup>E.g. A country lengthens its quarantine to 28 days from 14 days.

 $<sup>^{11}</sup>$ E.g. People can no longer leave their houses to go to work whereas before they could

<sup>&</sup>lt;sup>12</sup>E.g. The quarantine used to be voluntary but now its mandatory

<sup>&</sup>lt;sup>13</sup>E.g. The quarantine used to apply to people of all ages and now it only applies to the elderly.

## 220 Data Collection Methodology

As researchers learn more about the various health, economic, and social effects of the COVID-19 pandemic, it is crucial that they have access to data that is reliable, valid, and timely (to the greatest extent possible). 222 We have adopted a data collection methodology that we believe optimizes over all three of these constraints. 223 To collect the data, we recruited more than 220 research assistants (RAs) from colleges and universities 224 around the world, representing 18 out of the 24 time zones. Large social scientific datasets typically rely 225 on experts, coders, or crowd-sourcing to input data. The literature has shown that common coding tasks can be completed via crowd-sourcing (Benoit et al. 2016; Sumner, Farris, and Holman 2019), but that 227 there are also limitations to the wisdom of crowds when specific contextual or subject knowledge is required 228 (Marquardt et al. 2017). To address these trade offs, we decided to train current students to code our 229 entries, leveraging the benefits of wide-spread recruitment and a diverse pool of country-specific knowledge from across the globe. Data collection started on March 28, 2020 and has proceeded rapidly, reaching 12762 231 records as of the date of this article. Each RA is responsible for tracking government policy actions for at 232 least one country. RAs were allocated depending on their background, language skills and expressed interest 233 in certain countries (Horn 2019).<sup>15</sup> We have also partnered with the machine learning company Jataware to automate the collection of more than

We have also partnered with the machine learning company Jataware to automate the collection of more than
200,000 news articles from around the world related to COVID-19.<sup>16</sup> Jataware employs a natural language
processing (NLP) classifier using Bidirectional Encoder Representations from Transformers (BERT) to detect
whether a given article is indicative of a governmental policy intervention related to COVID-19. They then
apply a secondary NLP classifier to categorize the type of policy intervention (e.g. "declaration of emergency",
"quarantine", "travel restrictions", etc.). Next, Jataware extracts the geospatial and temporal extent of the
policy intervention (e.g. "Washington DC" and "March 15, 2020") whenever possible. The resulting list of
news sources is then provided to our RAs for manual coding and further data validation.

In what follows, we describe in greater detail how RAs document the policies that they identify using our data collection software instrument, and our post data-collection validation procedure. Please refer to the appendix for more information on our procedure for on-boarding and training RAs and our system for communicating with and organizing RAs.

<sup>&</sup>lt;sup>14</sup>For more information on the individual RAs, please visit http://coronanet-project.org/

<sup>&</sup>lt;sup>15</sup>Note depending on the level of policy coordination at the national level, certain countries were assigned multiple RAs, e.g. the United States, Germany, or France.

 $<sup>^{16}\</sup>mathrm{We}$  thank Brandon Rose and Jataware for making the news database available to this project.

#### 247 Data Collection Software Instrument

We designed a Qualtrics survey with survey questions about different aspects of a government policy action to streamline the CoronaNet data collection effort. With this tool, RAs can easily and efficiently document different policy actions by answering the relevant questions posed in the survey. <sup>17</sup> For example, instead of entering the country that initiated a policy action into a spreadsheet, RAs answer the following question in the survey: "From what country does this policy originate from?" and choose from the available options given in the survey.

By using a survey instrument to collect data, we are able to systematize the collection of very fine-grained data while avoiding coding errors common to tools like shared spreadsheets. The value of this approach of course, depends on the comprehensiveness of the questions posed in the survey, especially in terms of the universe of policy actions that countries have implemented against COVID-19. For example, if the survey only allowed RAs to select 'quarantines' as a government policy, it would not capture any data on 'external border restrictions', which would seriously reduce the value of the resulting data.

As such, to ensure the comprehensiveness of the data, before designing the survey, we collected in depth, 260 over-time data on policy actions taken by one country, Taiwan, since the beginning of the outbreak as well as cross-national data on travel bans implemented by most countries for a total of 245 events. 18 We 262 chose to focus on Taiwan on because of its relative success, as of March 28, 2020, in limiting the negative 263 health consequences of COVID-19 within its borders.<sup>19</sup> As such, it seems likely that other countries may 264 choose to emulate some of the policy measures that Taiwan had implemented, which helps increase the comprehensiveness of the questions we ask in our survey. Meanwhile, by also investigating variation in how 266 different countries around the world have implemented travel restrictions, we have also helped ensure that 267 our survey is able to comprehensively document variation in how an important and commonly used policy 268 tool is applied, e.g. restrictions of different methods of travel (e.g. flights, cruises), restrictions across borders and within borders, restrictions targeted toward people of different status (e.g. citizens, travelers). 270

There are many additional benefits of using a survey instrument for data collection, especially in terms of ensuring the reliability and validity of the resulting the data:

1. Preventing unforced measurement error. RAs are prevented from entering data into incorrect fields or unknowingly overwriting existing data—as would be possible with manual data entry into a

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<sup>&</sup>lt;sup>17</sup>See (???) for an example of a similar use of Qualtrics in collecting data.

<sup>&</sup>lt;sup>18</sup>The specific data source we cross referenced for this effort was the March 20, 2020 version of the following New York Times article: Salcedo, Andrea and Gina Cherelus, "Coronavirus Travel Restrictions, Across the Globe" New York Times, 20 March 2020, https://www.nytimes.com/article/coronavirus-travel-restrictions.html

<sup>&</sup>lt;sup>19</sup>Beech, Hannah. "Tracking the Coronavirus: How Crowded Asian Cities Tackled an Epidemic." New York Times 18 March 2020, https://www.nytimes.com/2020/03/17/world/asia/coronavirus-singapore-hong-kong-taiwan.html

- spreadsheet—because RAs can only document one policy action at a time in a given iteration of a survey and do not have access to the full spreadsheet when they are entering in the data.
- 277 2. Standardizing responses. We are able to ensure that RAs can only choose among standardized responses
  278 to the survey questions, which increases the reliability of the data and also reduces the likelihood of
  279 measurement error. For example, when RAs choose different dates that we would like them to document
  280 (e.g., the date a policy was announced) they are forced to choose from a calendar embedded into the
  281 survey which systematizes the day, month and year format that the date is recorded in.
- 3. Minimizing measurement error. A survey instrument allows coding different conditional logics for when certain survey questions are posed. This technique obviates the occurrence of logical fallacies in our data. For example, we are able to avoid situations where an RA might accidentally code the United States as having closed all schools in another country.
- 4. Reduction of missing data. We are able to reduce the amount of missing data in the dataset by using
  the forced response option in Qualtrics. Where there is truly missing data, there is a text entry at the
  end of the survey where RAs can describe what difficulties they encountered in collecting information
  for a particular policy event.
- 5. Reliability of the responses. We increase the reliability of the documentation for each policy by embed-290 ding descriptions of different possible responses within the survey. For example, in the survey question 291 where RAs are asked to identify the policy type (type variable, see appendix and/or Codebook), the 292 survey question includes pop-up buttons which allow RAs to easily access descriptions and examples 293 of each possible policy type. Such pop-up buttons were also made available for the survey questions 294 which code for the people or materials a policy was targeted at (target\_who\_what) and whether the 295 policy was inbound, outbound or both (target\_direction). Embedding such information in the 296 dataset both clarifies the distinction between different answer choices and increases the efficiency of 297 the policy documentation process (as RAs are not obliged to refer back and forth from the survey to 298 the codebook). 299
  - 6. Linking observations. The use of a survey instrument allows us to easily link policy events together over time should there be updates to existing policies. Once coded, each policy is given a unique Record ID, which RAs can easily look up, reference and link to if they need to update a particular policy.

#### Post-Data Collection Validation Checks

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We further implement the following processes to validate the quality of the dataset:

1. Cleaning. Before validation, we use a team of RAs to check the raw data for logical inconsistencies and typographical errors.

- 2. Multiple Coding for Validation. Others have shown that the random allocation of tasks and the validation of labels by more than one coder are among the best ways to improve the quality of a dataset (Sheng, Provost, and Ipeirotis 2008; Amazon.com 2011). We randomly sample 10% of the dataset using the source of the data (e.g. newspaper article, government press release) as our unit of randomization. We use the source as our unit of randomization because one source may detail many different policy types. We then provide this source to a fully independent RA and ask her to code for the government policy contained in the sampled source in a separate, but identical, survey instrument. If the source is in a language the RA cannot read, then a new source is drawn. The RA then codes all policies in the given source. This practice is repeated a third time by a third independent coder. Given the fact that each source in the sample is coded three times, we can assess the reliability of our measures and report the reliability score of each coder.
- 3. Evaluation and Reconciliation. We then check for discrepancies between the originally coded data and the second and third coding of the data through two primary methods. First, we use majority-voting to establish a consensus for policy labels. Using the majority label as an estimate of the "hidden true label" is a common method to address classification problems (Raykar et al. 2009). One issue with this approach is that it assumes that all coders are equally competent (Raykar et al. 2010). This criticism is generally levied at data creation with crowd-sourced laborers. We mitigate this problem by training our RAs in the data collection process and prioritizing RA country-knowledge and language skills, and therefore ensuring a more equal baseline for RA quality. We provide RA ID codes that will allow users to evaluate coder accuracy.

If the majority achieves consensus, then we consider the entry valid. If a discrepancy exists, a fourth RA or PI evaluates between the three entries to determine whether one, some, a combination of all three is most accurate. Reconciled policies are then entered into the dataset as a correction for full transparency.

If an RA was found to have made a coding mistake, then we sample six of their previous entries: 3 entries which correspond to the type of mistake made<sup>20</sup> and randomly sample 3 more entries to ascertain whether the mistake was systematic or not. If systematic errors are found, entries coded by that individual will be entirely recoded by a new RA.

<sup>&</sup>lt;sup>20</sup>e.g. if the RA incorrectly codes an 'External Border Restriction' as a 'Quarantine', we sample 3 entries where the RA has coded a policy as being about a 'Quarantine.'

## Conclusion Conclusion

- As policymakers, researchers and the broader public debate and compare how to succeed against the novel
  threats posed by COVID-19, they need real-time, traceable data on government policies in order to understand which of these policies are effective, and under what conditions. This requires specific knowledge of
  the variation in such policies and the extent of their implementation across countries and time. The goal of
  the dataset and policy action index presented here is to provide this information.
- We have tried to match our data collection efforts to keep up with the exponential speed with which COVID19 has already upended global public health and the international economy while also maintaining high levels
  of quality. However, we will inevitably be refining, revising and updating our data to reflect new knowledge
  and trends as the pandemic unfolds. The data that we present in this first version of the dataset represents
  only the initial release of the data, and we will continue to validate and release data so long as governments
  continue to develop policies in response to COVID-19.
- In future work, we intend to analyze the policy combinations that are best able to stymie the epidemic so as to contribute to the social science research community and provide urgently needed knowledge for policymakers and the wider global community.

### 349 Data Availability

For the most current, up to date version of the dataset, please visit http://coronanet-project.org or our Github page at https://github.com/saudiwin/corona\_tscs.

#### 352 Code Availability

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Interested readers may also find our code for collecting the data and maintaining the database at our Github page: https://github.com/saudiwin/corona\_tscs.

#### Appendix A: Description of Dataset Fields

The format of the data is in country-day-record\_id format. Some record\_id values have letters appended to indicate that the general policy category type also has a value for type\_sub\_cat, which contains more detail about the policy, such as whether health resources refers to masks, ventilators, or hospitals. Some entries are marked as new\_entry in the entry\_type field for when a policy of that type was first implemented in the country. Later updates to those policies are marked as updates in entry\_type. To see how policies are connected, look at the policy\_id field for all policies from the first entry through updates for a given country/province/city. If an entry was corrected after initial data collection, it will read corrected in the entry\_type field (the original incorrect data has already been replaced with the corrected data).

- 1. coronanet\_release.csv This file contains variables from the CoronaNet government response project,
  representing national and sub-national policy event data from more than 190 countries since December
  31st, 2019. The data include source links, descriptions, targets (i.e. other countries), the type and level
  of enforcement, and a comprehensive set of policy types. For more detail on this data, you can see our
  codebook here.
  - 2. coronanet\_release\_allvars.csv This file contains the government response information from coronanet\_release.csv along with the following datasets:
    - a. Tests from the CoronaNet testing database (See <a href="http://coronanet-project.org">http://coronanet-project.org</a> for more info);
    - b. Cases/deaths/recovered from the JHU data repository;
  - c. Country-level covariates including GDP, V-DEM democracy scores, human rights indices, powersharing indices, and press freedom indices from the Niehaus World Economics and Politics Dataverse

#### 376 coronanet\_release.csv Field Dictionary

- 1. record\_id Unique identifier for each unique policy record
- 2. policy\_id Identifier linking new policies with subsequent updates to policies
- 3. recorded\_date When the record was entered into our data
- 4. date\_announced When the policy is announced
- 5. date\_start When the policy goes into effect
- 6. date\_end When the policy ends (if it has an explicit end date)
- 7. entry\_type Whether the record is new, meaning no restriction had been in place before, or an update (restriction was in place but changed). Corrections are corrections to previous entries.
- 8. event\_description A short description of the policy change
- 9. type The category of the policy
- 10. type\_sub\_cat The sub-category of the policy (if one exists)
- 11. type\_text Any additional information about the policy type (such as the number of ventilators/days of quarantine/etc.)
- 390 12. country The country initiating the policy
- 391 13. init\_country\_level Whether the policy came from the national level or a sub-national unit
- 392 14. province Name of sub-national unit
- 15. target\_country Which foreign country a policy is targeted at (i.e. travel policies)
- 16. target\_geog\_level Whether the target of the policy is a country as a whole or a sub-national unit of that country
- 17. target\_region The name of a regional grouping (like ASEAN) that is a target of the policy (if any)
- 18. target\_province The name of a province targeted by the policy (if any)
- 19. target\_city The name of a city targeted by the policy (if any)
- 299 20. target other Any geographical entity that does not fit into the targeted categories mentioned above
- 21. target\_who\_what Who the policy is targeted at
- 22. target\_direction Whether a travel-related policy affects people coming in (Inbound) or leaving
  (Outbound)
- 403 23. travel mechanism If a travel policy, what kind of transportation it affects
- 24. compliance Whether the policy is voluntary or mandatory
- 25. enforcer What unit in the country is responsible for enforcement
- 406 26. link A link to at least one source for the policy
- 407 27. ISO\_A3 3-digit ISO country codes
- 408 28. ISO\_A2 2-digit ISO country codes

#### 409 coronanet\_release\_allvars.csv Field Dictionary

- 1. All of the fields listed above, plus
- 2. tests\_daily\_or\_total Whether a country reports the daily count of tests a cumulative total
- 3. tests\_raw The number of reported tests collected from host country websites or media reports
- 4. deaths The number of COVID-19 deaths, aggregated to the country-day level (JHU CSSE data)
- 5. confirmed\_cases The number of confirmed cases of COVID-19, aggregated to the country-day level (JHU CSSE data)
- 6. recovered The number of recoveries from COVID-19, aggregated to the country-day level (JHU CSSE data)
- 7. ccode The Correlates of War country code
- 8. ifs IMF IFS country code
- 9. Rank\_FP (most recent year available from Niehaus dataset) Reporters without Borders Press Freedom
   Annual Ranking
- 10. Score\_FP (most recent year available from Niehaus dataset) Reporters with Borders Press Freedom
  Score
- 11. state\_IDC (most recent year available from Niehaus dataset) State/Provincial Governments Locally
  Elected
- 12. muni\_IDC (most recent year available from Niehaus dataset) Municipal Governments Locally Elected
- 427 13. dispersive\_IDC (most recent year available from Niehaus dataset) Dispersive Powersharing
- 14. constraining\_IDC (most recent year available from Niehaus dataset) Constraining Powersharing
- 429 15. inclusive\_IDC (most recent year available from Niehaus dataset) Inclusive powersharing
- 430 16. sfi\_SFI (most recent year available from Niehaus dataset) State fragility index
- 431 17. ti\_cpi\_TI (most recent year available from Niehaus dataset) Corruption perceptions index
- 432 18. pop\_WDI\_PW (most recent year available from Niehaus dataset) World Bank population
- 19. gdp\_WDI\_PW (most recent year available from Niehaus dataset) World Bank GDP (total)
- 20. gdppc\_WDI\_PW (most recent year available from Niehaus dataset) World Bank GDP per capita
- 21. growth\_WDI\_PW (most recent year available from Niehaus dataset) World Bank GDP growth percent
- 22. lnpop\_WDI\_PW (most recent year available from Niehaus dataset) Log of World Bank population

- 23. lngdp\_WDI\_PW (most recent year available from Niehaus dataset) Log of World Bank GDP
- 24. lngdppc\_WDI\_PW (most recent year available from Niehaus dataset) Log of World Bank GDP per capita
- 25. disap\_FA (most recent year available from Niehaus dataset) 3 category, ordered variable for disappearances index
- 26. polpris\_FA (most recent year available from Niehaus dataset) 3 category, ordered variable for political imprisonment index
- 27. latentmean\_FA (most recent year available from Niehaus dataset) the posterior mean of the latent variable index for human rights protection)
- 28. transparencyindex\_HR (most recent year available from Niehaus dataset) Transparency Index
- 29. EmigrantStock\_EMS (most recent year available from Niehaus dataset) Total emmigrant stock from
- 30. v2x\_polyarchy\_VDEM (most recent year available from Niehaus dataset) Electoral democracy index
- 31. news\_WB (most recent year available from Niehaus dataset) Daily newspapers (per 1,000 people)

#### Appendix B: Research Assistant Training and Management

## $_{ t 450}$ 0.1 RA Training

- All RAs watch a mandatory 50 minute video training of the survey instrument which explains how to use the 451 survey instrument. RAs are also provided with written guidelines on how to collect data and a comprehensive 452 codebook. To briefly describe it here, the written guidelines provide a definition of what counts as a new 453 or updated policy (see Data section for more details) and provides a checklist for RAs to follow in order to identify and document different policies. In the checklist, RAs are instructed to find policies by checking the sources in the order given in the guidelines to identify policies, to document the relevant information 456 into the survey and to save and upload a document of the source they found for each policy into Qualtrics. 457 The codebook meanwhile provides descriptions and examples of the different possible response options in the survey. Using a training video and the written codebook also has the added benefit of helping us efficiently disseminate the information RAs need to use the survey experiment consistently. 460
- In order to participate as an RA in this project, RAs must fill out a form<sup>21</sup> in which:
  - They identify themselves.

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• They certify that they have viewed the training video in which we explain how to use the survey instrument.

<sup>&</sup>lt;sup>21</sup>See here for the link to the form.

- They certify they have joined the CoronaNet Slack Channel (see section below for more information).
- They certify that they understand that RA responsibilities entail
  - gathering historical data on COVID-19 government policy actions for their country, and;
  - providing daily updates for new government policy actions.

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- They certify that they understand they can access the data collection guidelines and codebook or pose their questions on the Slack Channel.
- They certify that they are expected to upload .pdfs of the sources they access to the survey instrument.
- Once the RA submits the form, they are sent a personalized link to access the survey. With the customized
- link, we are also able to keep track of which RA coded what entries.

#### 474 0.2 Real-Time Communication and Feedback

Once an RA joins the project, they can pose their questions on a CoronaNet Slack channel, which they must join in order to participate in the project. The channel allows any RA to pose a question or issue they may have in using the survey instrument to any of the PIs and allows all other RAs to learn from the exchange at the same time. As such, RAs are able to receive feedback and learn from each other's questions in a timely and centralized manner. Since the data collection effort was launched on March 28, 2020 until April 18, 2020, both RAs and PIs have actively used Slack to communicate with one another. On the Slack channel devoted to asking questions about the Qualtrics data survey in particular, there were 1,752 messages posted by 130 project members.

#### Appendix C: List of Contributors to Dataset

Table 3: Contributing Researchers and their Responsible Countries

Name	Affiliation	Country	Vita
Abdelaziz Ibn Abdelouahab	Mohamed V	Senegal	Moroccan Medical
	University		Doctor.
Abhyudaya Tyagi	NYU Abu	Romania	I am a second-year
	Dhabi		student at NYU
			Abu Dhabi,
			majoring in
			Political Science
			and Economics.

Adriana Poppe	University of Cologne	Colombia, Spain	Master Student of Sociology and Social Research at the University of Cologne
Alette Mengerink	Teacher (German and children's righs) to people with a migration background	Bosnia and Herzegovina	Teacher (German and children's rights).
Alexander Pachanov	Charite Universitätsmedizin, Berlin School of Public Health	Kazakhstan	Master's student at Berlin School of Public Health
Amadeus Albrecht		Georgia,	
Amanda Panella	Hertie School of Governance, Berlin, Germany	Cyprus	Amanda Panella is a MIA student specialising in international security studies at the Hertie School of Governance, where she graduates in June 2020.
Ana Acero	Sciences Po Paris	Equatorial Guinea	

Anabella McElroy		United	Anabella is
		States,	studying political
		United	science at Sciences
		States	Po Paris and the
			University of
			British Columbia.
Anastasia Steinbrunner	Willy	Samoa	
	Brandt		
	School of		
	Public		
	Policy/		
	University of		
	Erfurt		
Andreas Duncan	University of	Vanuatu	Andy is an
	Applied		undergraduate
	Forest		student in
	Scienes		Sustainable
	Rottenburg		Regional
	Routenburg		Management.
Andres Lopez Schrader	NYU Abu	Morocco	I am a marine
Andres Lopez Schräder	Dhabi	Wordco	genetics researcher
	Dilabi		with an interest in
			education policy
			and language
	3137TT A1	т 1.	learning.
Angad Johar	NYU Abu	India	Sophomore at New
	Dhabi		York University
		a .	Abu Dhabi
Angela Herz	Heidelberg	Spain:	Political Science
	University	sub-national	Student from
			Germany

Angeline Kanyangi	Kenya School of Law	Eritrea	
Anke Horn	Pharmacist	Switzerland: sub-national	Pharmacist
Anna Sophia Körner	SciencesPo Paris/FU Berlin	Mexico	I am currently doing my dual degree at Sciences Po Paris and FU Berlin with a focus on European Affairs and Public Policy.
Anoushka Thakre	Dual BA Columbia University and Sciences Po Paris	Kuwait	A student currently enrolled in the Dual BA program between Columbia University and Sciences Po Paris interested in economics, healthcare and public policy.
Antonia Pérez	Dual BA Program Sciences Po Paris/ Columbia University	Venezuela	

Ariana Barrenechea	Willy Brandt School of Public Policy	Spain	Master of Public Policy candidate at the Willy Brandt School
Arianna Schouten	Research Assistant	Canada	I am Canadian with an interdisciplinary Bachelor in Politics, Psychology, Law & Economics from the University of Amsterdam, and I have a specific interest in law, health policy and pharmaceutical regulation.
Avery Edelman	Journalist	Lebanon	Tufts University graduate with a BA in Arabic and International Relations.
Aysina Maria	Technische Universität München	Greece	Grew up in Russia.  I am a student at the Technical University of Munich and currently Erasmus Student at University of Pavia, Italy.

Babrik Kushwaha	University of	Nepal	Babrik Kushwaha,
	Lille		BA, Graduate
			student of
			European and
			International
			Studies,
			Management of
			European Affairs
			Program at
			University of Lille /
			Trainee at the
			Institute for the
			Danube Region
			and Central
			(IDM).
Barbora Bromová	University of	Czechia,	
	Amsterdam	Slovakia	
Beatrice Di Giulio	Technical	San Marino	
	University of		
	Munich		
Beatrice von Braunschweig	Leuphana	Mali	BA student of
	University		political science at
	Lüneburg /		Leuphana
	Université		University
	Paris-Est		Lüneburg,
	Créteil		Germany, and
			Paris XII, France

Borja Arrue-Astrain	Project and Policy Officer at AGE Platform Europe	Equatorinal Guinea	Graduate in Political Science from the University of the Basque Country (Spain) and Masters in European Affairs from Sciences Po Paris, specialised in social policy advocacy.
Brahim Ouerghi		Lebanon	I am a 22 year old student at the Technical University of Munich where I study technology and management
Brian Chesney Quartey	NYU Abu Dhabi	Ghana, Togo	
Bruno Ciccarini	Communicatio Manager	Italy: sub-national, Italy: sub-national	
Calvin Kaleel	Yale University	Oman	A sophomore at Yale University, Calvin majors in Modern Middle Eastern Studies and is extremely excited about this project!

Cara Kim	Technical University of Munich	Myanmar	Medical student from Germany
Caress Schenk	Nazarbayev University	Russia	Associate Professor of Political Science
Carl Philip Dybwad	Sciences Po Paris	Sweden	Circularity  Advocate with a passion for the future of electioneering.
Carlos Velez	Yale University	Liberia	Yale Undergraduate, Class of 2020, B.A. Political Science
Carly Kimmett	University of Western Ontario	Republic of the Congo	Canadian. UWO Kin Grad and current BScN Nursing Student
Charlotte Vorbauer	TUM Munich	Namibia	student of political science at TUM
Cheng-Hao SHEN	Sciences Po Paris	Belize, Palau, Philippines, Saint Lucia	A political science student interested in comparative government, British politics, and cross-strait relations from the Republic of China

Chloë Fraser	Dual BA	Guatemala	Having grown up
	Sciences Po		near Montreal and
Paris/Univ		ity	close to Brussels, I
	of British		am now completing
	Columbia		my second year in
			a Dual BA in
			social sciences
			between Sciences
			Po and UBC, and
			with an interest in
			human rights work
			and sustainable
			development.
Cornelia Marie Dybwad	ESPOL Lille	Armenia,	Norwegian
J. T. T. T. J. T. T. J. T.		Estonia	International
			Security Policy
			student, interested
			in hybrid security
			threats.
Csilla Horvath	Customer	Bolivia	
	Support		
	Specialist		
Dan Downes	TUM	Brazil	Structural
	Munich		Engineer.
			Currently studying
			a Masters in
			Political Science.
Dan Wu	Sciences Po	Finland,	Native Chinese
	Paris	Finland	studying Political
			Science in France
			and living in
			Austria

Daniel Boey	Hertie School & Columbia University	Thailand	Columbia-Hertie MPA-MPP Dual Degree Candidate working in the intersection of environmental engineering and public policy.
Daniel Martínek	Institute for the Danube Region and Central Europe (IDM) Vienna	Czechia, Slovakia	Research Fellow at the Institute for the Danube Region and Central Europe (IDM), Vienna, Austria
Dariga Abilova	Georgia State U	Barbados, Lesotho	PhD Student
Davit Jintcharadzé	NYU Abu Dhabi	Italy: sub-national	NYU Abu Dhabi Psychology and Philosophy student.
Deborah Agboola	New York University Abu Dhabi	United Kingdom	I am a British-Nigerian undergraduate student at New York University Abu Dhabi
DICK PAUL OUKO	SciencesPo Paris	Burundi, Rwanda	A student at SciencesPo Paris University who considers himself to be a global citizen.

Diego Calvo	Florencio del Castillo University	Nicaragua	Law student
Dominik Juling	Technical University of Munich	Antigua and Barbuda	Currently studying political science at the Technical University Munich and working as a free journalist.
Donia Kamel	Paris School of Economics	Comoros, Djibouti	I am currently in my first year of my Masters in Analysis and Policy in Economics at the Paris School of Economics
Dorian Quelle	Zeppelin University	Nicaragua, Panama	
Dotrus Wilstic	IOM- Johannesburg ZA	Tanzania	A doctor of philosophy (Ph. D)in Education
Dylan Ollivier	Columbia College of Columbia University in the City of New York	Gabon	

Eduardo Landaeta	Old Dominion University	Costa Rica	Doctoral Student in the Graduate Program in International Studies at Old Dominion University
Elfriede Derrer-Merk	Universiity of Liverpool	Switzerland: sub-national, Switzerland: sub-national	I am a PhD student at the University of Liverpool. I am interested in psychological experience of covid-19 of older people. Risk and uncertainty and how it is communicated in this exceptional time might influence the individuals resilience.
Elisa Seith		Luxembourg, Luxembourg	Master Graduate from Heidelberg University, Political Science
Elizabeth (Lizzie) Jones	LSE/Sciences Po Paris/NYU	Cameroon	

Ella Pettersen	Kenyon College	Norway	I am a first year student at Kenyon College, and an intended Political Science major.
Elliot Weir	Otago University	Testing Data	I am an undergraduate student in my second year at Otago University in New Zealand, with a broad interest in statistical research.
Emma Hutchinson	Sciences Po Paris	Australia, Japan	Sciences Po Paris  Masters in  International  Security Student
Esther Ollivier	SciencesPo Paris	Mali	Esther Ollivier is a French-American student studying in the Columbia- SciencesPo Dual BA program, where she is double majoring in Economics and Music, with a Finance minor.
Eugene Kwizera	African Leadership University - Kigali	Central African Republic	

Fabienne Lind	Univesity of	Austria	I am a PhD
	Vienna		student and work
			as research
			associate at the
			Computational
			Communication
			Science Lab at the
			University of
			Vienna.
Fabio Kadner	University	Palastine	I'm currently
	Bonn		writing my master
			thesis in the
			programme
			'Society,
			Globalization,
			Development' at
			the university of
			Bonn, Germany.
			My main research
			topics include
			migration, religion
			and international
			relations.

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Fadhilah Fitri Primandari	Universitas	Indonesia	Final year political
	Indonesia		science student at
			Universitas
			Indonesia, with a
			concentration in
			comparative
			politics. Her views
			on Indonesian
			politics have
			previously
			appeared on
			several notable
			platforms, such as
			East Asia Forum,
			New Mandala, and
			The Diplomat.
Farah Sadek	NYU Abu	Qatar	I am an
	Dhabi		undergraduate
			student pursuing a
			degree in Social
			Research and
			Public Policy with
			a minor in
			Economics and
			Peace Studies at
			New York
			University Abu
			Dhabi.

Felix Willuweit	London	Ethiopia	I am a student
	School of		from Germany in
	Economics		my 3rd year of a
	and Political		BSc in
	Science /		International
	Sciences Po		Relations at the
	Paris		London School of
			Economics and
			Sciences Po Paris
			with interest in
			Global Governance
			and International
			Development.
Fernanda Werneck	Leipzig	Sao Tome	I'm a researcher on
	University	and Principe	International
	·	_	Relations and
			Environmental
			Studies and I'm
			currently studying
			the last semester of
			MA. Global
			Studies
Francis Yoon	FU Berlin	Malaysia,	
		Malaysia,	
		South Korea,	
		South Korea	
Frank Yuxuan Sun	Technische	Malta	Active social
	Universität		commentator,
	München		interested in
			political science.

Frederic Denker	I followed the outbreak of the Corona- Crisis in Israel, where I completed an internship and also had to deal with some Corona regulations. I could also work on any spanish-	Nigeria	Undergraduate student interested in innovation and development economics.
	spanish- speaking country.		
Gloria Mutheu	The University of Nairobi, Kenya	Uganda	LLB 1st year student who has a great passion for research and helping people access information.
Gulmira Imanova	Carleton University	Tajikistan	

Ha-Neul Yu	NYU Abu Dhabi	Testing Data	I am an undergraduate student at New York University Abu Dhabi. I am majoring in biology with a minor in psychology and I have an interest in statistical research.
Hafsa Ahmed	NYU Abu Dhabi	Singapore	A senior undergraduate social research, public policy, and public health student from New York university in Abu Dhabi, driven to tackle global policy challenges in the development field.
Hajar Chams Eddine	University of Mohammed 5, Rabat	Mozambique	
Helene Paul	TU Darmstadt / Policylead	Germany, Netherlands	Graduate student in governance and public policy, working on political monitoring as a working student for Policylead.

Helwan Felappi	Sciences Po	Moldova,	I'm a second year
	Paris	Moldova,	Economics and
		Montenegro,	Political Science
		Montenegro	student at Sciences
			Po Paris, on
			exchange at the
			University of
			Pennsylvania. I am
			passionate about
			studying,
			describing and
			better
			understanding our
			societies and the
			challenges they
			face.
Heman Asibuo	Cornell	Sierra Leone	
	University		
Henry Okwatch	Advocate of	South Africa,	
	the High	South Africa	
	Court of		
	Kenya		
Ilona Koch	German	Niger	Passionate Political
	Development		Scientist who loves
	Cooperation		to analyse the
			world

Imogen Rickert	Policy Advisor in non-profit sector	Trinidad and Tobago, United States: sub-national	Social researcher with M.A. in Sociology from Freie Universität Berlin, B.A. from the University of
			Sydney and experience in providing policy analysis in the non-profit sector.
Ines Böhret	University of Manchester, University of Passau	Kiribati	Ines has a B.A. in International Emergency and Disaster Relief and currently writes her theses for a M.Sc. in Global Health and a M.A. in Caritas Science and Value-based Management.
Ingeborg Sæle Helland	University of Copenhagen	Argentina	Master student in Security Risk Management at the University of Copenhagen
Isabela Russo	TU München HfP	Mozambique	Born and raised in Brazil - currently studying Political Science in Germany.

Isabelle Smith	Colorado College, SciencesPo Paris	Madagascar	Hello, my name is Isabelle Smith and I am a third year bachelors student in Political Science at Colorado College and have recently completed a year abroad with SciencesPo Paris.
Ismail Jamai Ait Hmitti	Yale University	Ivory Coast	Modern Middle Eastern Studies and History major at Yale University.
Jack Kubinec	Cornell University	Hungary	Jack is a freshman at Cornell University studying Government.
Jakob Berg	Universität Regensburg	Bulgaria	I am a third-year student in the field of political science at the University of Regensburg
Jane Murutu	Project  Management  Consultant	Uganda	I am a project Management Specialist Consultant
Janice Klaiber	ESB Business School / Rollins College	Tonga, Tuvalu	

Janne Luise Piper	Zeppelin University	Israel	I am a student of Sociology, Politics and Economics at Zeppelin University in Germany where I work as a student assistant for the Chair of International
Jasmina Sowa		Solomon Islands, Solomon Islands	Relations.  I am Psychology student from Germany in the fourth year of my bachelors degree.
Jennifer Noguera Barrera	Universidad del Rosario	Cabo Verde	

Jessica Johansson		United	M.Sc. graduate in
Jessieu Johansson		Kingdom,	Politics, Economics
		United	and Philosophy
		Kingdom	from University of
		ringdom	Hamburg, with
			research experience
			from political
			science research at
			the German
			Institute of Global
			and Area Studies
			(Hamburg) as well
			as economics
			research at
			CIESAS
			(Guadalajara,
71 77		G 41 T	Mexico).
Jiho Yoo		South Korea,	Undergraduate
		South Korea	student in Sciences
			Po Paris Campus
			de Reims, studying
			Political
			Humanities
Joana Lencastre Morais	Technische	Angola	Politics &
	Universität		Technology student
	München &		at the TU
	Hochschule		München.
	für		
	Philosophie		
	München		

Joel Gräff	Technical Product Designer	South Africa	German and South African Technical Product Design trainee in the final year
Josef Montag	Charles University	Testing Data	I am an Assistant Professor at the Department of Economics, Faculty of Law, Charles University in Prague, the Czech Republic. I do empirical research in fields related to law and economics.
Jule Scholten	Ruhr- Universität Bochum	Jamaica	Student of Political Science and student assistant, working on a project of interest groups influence on Government decision in Germany
Julia Dröge	University of Natural Resources and Life Sciences	Iceland, Iceland	

Julia Nassl	University of Munich	Bolivia, Peru	I am a 4th year law student at Ludwig-Maximilians-Universität, Munich with a specialization in Public International Law.
Julia Smakman	University of Amsterdam (currently interning with Amnesty International)	Poland	Dutch, BSc Graduate, Law major, Main interest in international law
Julia Wießmann	University of Heidelberg	Latvia	
Kadriye Nisa Başkan	Yıldız Technical University	Turkey	Economics Graduate from Yıldız Technical University/ Istanbul
Karina Lisboa Båsund	NYU Abu Dhabi	Norway, Senegal	Research Assistant at NYU Abu Dhabi's Department of Social Science

Karlotta Schultz	University of	Bolivia	I am a recent
	Edinburgh		graduate of the
			University of
			Edinburgh in
			Global
			Environment,
			Politics and Society
			and just complete
			an internship at
			the Gesellschaft für
			Internationale
			Zusammenarbeit
			(GIZ).
Katharina Klaunig	NYU Abu	Azerbaijan,	Katharina is a
	Dhabi	Kazakhstan,	third year B.A.
		Kyrgyzstan,	student studying
		Tajikistan,	Social Research
		Turk-	and Public Policy
		menistan,	at New York
		Uzbekistan	University Abu
			Dhabi.

Kayla Schwoerer	Rutgers University- Newark	United States: sub-national	PhD student at Rutgers University-Newark in the School of Public Affairs studying government transparency with a focus on ICT-enabled interactions between government and its
Khoa Tran	NYU Abu Dhabi	Vietnam	stakeholders.  Khoa Tran is a legal studies student at New York University Abu Dhabi and a youth social entrepreneur.
Kojo Vandyck	NYU Abu Dhabi	Guinea	A Ghanaian STEM enthusiast keen on battling COVID-19!
Konstanze Schönfeld	Universität Leipzig / Fudan University	Japan	Global Studies student at Uni Leipzig / Fudan University, focusing on visa policy; BA in Japanese Studies from Uni Heidelberg

Laura Williamson	Rosario University of Colombia  Colorado	Andorra United	I have a degree in International Relations of University of Rosario of Colombia
	Christian University	States: sub-national	
Laureen Hannig	Universität Erfurt	Chad	Student of International Relations and Communication Science
Laurent Frick	Social Worker	Eswatini	Graduated Sociology Student and Social Worker
Lea Clara Frömchen-Zwick	Christian- Albrechts Universität zu Kiel	Grenada, Saint Kitts and Nevis, Saint Vincent and the Grenadines	
Lea Wiedmann	University of Groningen	Belize	International Relations graduate
Lena Kolb	Technische Universität München (TUM)	Cabo Verde, Malawi	I study in 4th Semester of political science at TUM
Leon Kohrt	Zeppelin University	Switzerland: sub-national	Senior Student at Zeppelin University

Leonie Imberger	TU Dresden	Australia	3rd year Med
			Student from
			Germany;
			interested in
			Global Health and
			Public Health
			Policy
Li Cheng	NYU Abu	Testing Data	I am an
	Dhabi		undergraduate
			student at NYU
			Abu Dhabi
			majoring in
			Interactive Media.
Lilli Tabea Albrecht	Institute of	Cambodia	Grad student in
	Human		Human Rights at
	Rights and		the IHRP at
	Peace		Mahidol University,
	Studies,		focusing on
	Mahidol		democracy and
	University,		global health
	Thailand		governance.

Lily Zandstra	Project Support Officer	Syria	Recent MA graduate from Leiden University in International Relations: European Union Studies. A dynamic thinker with cross-cultural and international experience and a keen interest in project development. Experience working on
			research projects to bridge the gap between policy and practice.
Lincoln Dow	New York University	Uruguay	Lincoln Dow is an undergraduate student in political science at New York University from Houston, Texas.

Linlin Chen	TU München HfP	Sri Lanka	Final year M.Sc student in the Politics and Technology program at Technical University of Munich
Luise Modrakowski	Copenhagen University	Norway	Master student of security risk management at Copenhagen University, originally from Dresden (DE), focusing on risk governance, political risk analysis, and sustainability.
Lya Cuéllar	FU Berlin	Costa Rica, El Salvador	
Magdalena Strebling	Management	Marshall Islands	
Maheen Zahra	Lecturer, Social Policy specialist	Afghanistan, Iran	Lecturer at the Department of Development Studies, National University of Science and Technology (NUST), Pakistan

Maira Sheikh		Liberia	Born and raised in Pakistan, I'm a Social Research and Public Policy Major at New York University Abu Dhabi.
Maisa Nasirova	Technical University of Munich (TUM)	Pakistan, Tanzania	Political Science Student at Technical University of Munich
Maite Spel	University of Amsterdam	Suriname	I'm a graduate in Interdisciplinary Social Sciences from the University of Amsterdam
Malina Winking	University of Amsterdam	Botswana	
Mamle Akosua Kwao	New York University Abu Dhabi	Mauritania	
Mara Förster	Sciences Po Paris	Trinidad and Tobago	I am currently a first-year student at the Reims Campus of Sciences Po Paris, particularly focusing on North America and Europe.

Marianne Sievers	Humboldt	Yemen	I'm a freelance
	University,		researcher, holding
	Berlin,		a BA in Sociology
	Germany		and Islamic
			Science, currently a
			MA student in
			Berlin.
Marius Deierl	LMU	Ecuador	Student of cultural
	Munich		anthropology, 22,
			Germany
Marlies Hofmann	University of	United	Currently
	Amsterdam	States	completing my BSc
			in PPLE (Politics,
			Psychology, Law
			and Economics) at
			the University of
			Amsterdam and
			looking forward to
			subsequently
			continuing my
			studies of law at
			the University of
			Oxford.
Mary Nussbaumer	Colorado	United	I am Mary
	College	States:	Nussbaumer, a
		sub-national,	sophomore at
		United	Colorado College
		States:	
		sub-national	

Mascha Hotopp		United	I am a Master 1
		States,	journalism and
		United	human rights and
		States	humanitarian
			action student at
			the Sciences Po
			Paris.
Mats Jensen	Sciences Po Paris	Iceland	
Matthew Cottrell	University of	United	
	Cologne	States	
Matthew Hargreaves	University of Amsterdam	Switzerland	A graduate in psychology, politics, law and economics from the university of Amsterdam.
Maximilian Dirks	University of Bochum, Germany	New Zealand	I am studying Economic Policy Consulting M.Sc. at the University of Bochum.
Maya Rollberg	University of Freiburg	Germany: sub-national	I am a Liberal Arts and Sciences student, currently writing my Bachelor's thesis in Germany.

Mehdi Bhouri	Technische	Algeria	I am a
	Universität		Business/Political
	München		science student at
			The Technical
			University of
			Munich
Michaela Balluff	Gesellschaft	Eritrea	
	für Interna-		
	tionale		
	Zusamme-		
	narbeit		
	(GIZ) GmbH		
Milan Chen	HfP	Taiwan	Doctoral researcher
	(Munich)		at the Technical
			University of
			Munich
Milos Moskovljevic	City	Maldives,	PhD student at
	University of	Serbia	City University of
	Hong Kong		Hong Kong

Miranda Tessore Janowski		Argentina,	I am a graduate of
		Argentina	Politics,
			Psychology, Law
			and Economics
			(PPLE) with a
			specialisation in
			International Law
			from the University
			of Amsterdam,
			where I graduated
			with an Upper 2:1.
			I currently live in
			London and will
			start a Master's in
			International Peace
			and Security at
			King's College
			London in
			September 2020.
Miriam Witte	University of	Ireland	Psychology student
	Regensburg,		BSc at the
	Germany		University of
			Regensburg,
			scholarship holder
			of the Friedrich-
			Ebert-Foundation,
			lived and worked in
			L'Arche Ireland for

 $1\ 1/2$  years.

Mirjam Muller	European Parliament	European Union, Latvia, Lithuania	BSc law graduate working for the Greens in the European Parliament and hoping to contribute to some good on this earth!
Mona Horn		Costa Rica, Costa Rica	I am a student of geosciences at the University of Freiburg.
Muhammad Masood	City University of Hong Kong	Bahrain	Muhammad Masood is a Ph.D. student at the Department of Media and Communication, City University of Hong Kong, since September 2018. Muhammad's dissertation focuses on the impact of social media use on the socio-political landscape of Pakistani society.
Muhannad Alramlawi	NYU Abu Dhabi	Jordan	I am senior student studying Economics at New York University Abu Dhabi (NYUAD).

Museera Moghis	NYU Abu Dhabi	United Arab Emirates	Museera is an undergraduate student at New York University Abu Dhabi, double majoring in Political Science and Social Research & Public Policy.
Mustafa Nasery	Researcher and Consultant	Afghanistan	Co-founder and Board-Member of Afghanistan Center for Policy Studies (ACPS)
Nadja Grossenbacher	Utrecht University / University of Vienna	Gambia	Nadja Grossenbacher holds a MA degree in Conflict Studies & Human Rights as well as a BA degree in Cultural & Social Anthropology and set her regional focus on Sub-Saharan Africa.

Natalia Filkina-Spreizer	HfP	Belarus,	M.Sc. student of
	(Munich)	Russia	Politics and
			Technology at
			Technical
			University of
			Munich
Nicolas Göller	Zeppelin	Germany	Undergraduate
	University		student of
			Sociology, Politics
			& Economics with
			an interest in
			interdisciplinary
			research and Data
			Science.
Nicole Oubre	Willy	Honduras	I am a Master of
	Brandt		Public Policy
	School of		student at the
	Public		Willy Brandt
	Policy		School of Public
			Policy in Erfurt,
			Germany.
Nida Hasan	Dual BA	Saudi	I am an
	Sciences Po	Arabia	undergraduate
	Paris/Columb	ia	student in the Dual
	Universitty		BA program with
			Sciences Po Paris
			and Columbia
			University,
			passionate about
			working in the
			fields of Medicine
			and Public Health.

Niklas Illenseer	SciencesPo Paris/FU Berlin	Austria, France, Liechten- stein	Dual Degree Master's student in Environmental Policy at Sciences Po Paris and Political Science & International Relations at FU Berlin.
Nikolina Klatt	Fernuniversität Hagen	Croatia, United States	Political Science student based in New York City
Nivedita Darshini Bholah	University of Tübingen	Mauritius, Mauritius	Graduate Student/Avid Researcher
Noelle Kubinec	English teacher	Albania, North Macedonia	I am a Language and Orientation Coordinator for a non-profit and have been living in the Balkan region of Europe for 8.5 years.
Noor Altunaiji	NYU Abu Dhabi	Libya	I'm a student studying at NYU Abu Dhabi.
Océane Mauffrey	Colorado College	Guinea- Bissau	

Oliver Pollex Oliver Weber	TUM Munich  University of Regensburg, Germany	Brunei  Denmark, Germany, Italy,	B.Sc. student politics and technology TU Munich Graduate Student at the University of Regensburg,
		Monaco	Bachelor's Degree from the University of Mannheim
Olzhas Gibatov	Nazarbayev University	Barbados	2nd year MA student at the Department of Political Science and International Relations at Nazarbayev University
Ongun Durhan	University of Amsterdam	Turkey	Graduate student of Political Economy at the University of Amsterdam (expected to graduate this year).
Pablo Robles	Hochschule Fresenius	Paraguay	Ecuadorian Architect pursuing an International Business Masters degree

Paula Germana Philipp Weber	Willy Brandt School of Public Policy/ University of Erfurt Motio Gmbh	El Salvador	Peruvian Sociologist. Master in Public Policy Student at the Willy Brandt School of Public Policy.
Pia Bansagi	& Co. KG University of Vienna	Nauru, Timor Leste	Erasmus Mundus Masters of Global Studies student at the University of Leipzig and University of Vienna.
Racha Hanine	University of Oslo	Tunisia	First year BA student in Political Science at the University of Oslo
Raquel Karl	Zeppelin University	Cuba, Dominican Republic	Undergraduate student in Sociology, Politics & Economics.
Rebecca Beigel	Stiftung Neue Verant- wortung, Project Manager In- ternational Cybersecu- rity Policy	Syria	

Ricardo Buitrago	Universidad de La Salle Colombia	Honduras	Head of the B.A. in International Business & Relations
Richmond Silvanus Baye	University of Tuebingen	Mauritius	I am into environmental and food economics research
Robin Fischer	University of Braun- schweig	Dominica	I study  Mathematics and Philosophy at the University in Braunschweig.
Rosana Fayazzadh	University of Oslo	Iran	Oslo-based student majoring in law and economics at the University of Oslo
Saif Khan	Technical University of Munich	Seychelles	M.Sc. Politics and Technology student.
Salma Soliman	NYU Abu Dhabi	Egypt	I am a third year student studying Economics with a Data Science Track at NYUAD.

Samantha Reinard	San Francisco State University/On Exchange Sciences Po Reims	Bhutan, Mongolia	Undergraduate student of International Relations and Comparative World Literature, soon to study in Taiwan.
Sana Moghis	Shifa College of Medicine	Bangladesh, Nepal, Testing Data	I am a young doctor who has just graduated from Shifa College of Medicine. Passionate about developing a career in Critical Care and exploring methods that revolutionize modern healthcare.
Sarah Edmonds	TUM Munich	Papua New Guinea, United States: sub-national	
Sau Kan Chan	HfP (Munich)	China, Hong Kong, Macau	PhD student at HfP (Munich). My research focuses on transparency in Chinese governance.

Saw Eh Doh Soe	Institute of Human Rights and Peace Studies, Mahidol University, Thailand	Zimbabwe	
Sean-Michael Pigeon	Yale University	United States: sub-national	I'm Sean-Michael, I am a Junior at Yale University working on a double major in History and Political Science
Shalini Corea	NYU Abu Dhabi	United States: sub-national	I am a Junior majoring in Theater and Political Science at NYU Abu Dhabi
Shruti Shukla	Consultant, C4ED	Guyana	I am a qualitative research with a global health background.
Simon Hüttemann	TUM Munich	Nigeria	I am a Student for political science at Technical University Munich.

Sophia Tomany	Willy Brandt School of Public Policy	Iraq, South Sudan	Sophia is a Master's student in Public Policy at the Willy Brandt School, specializing in Conflict Studies and Management.
Stefanie Mallow	Sustainable Development Consultant	Portugal	I have a master's degree in Cultural Anthropology from Uppsala University and I am interested in inequalities in knowledge production.
Stella Dold		Bahamas, Bahamas	Student of Political Science
Su Ülkenli		Democratic Republic of the Congo	Second-year student at SciencesPo Paris, pursuing a BA in Political Humanities.
Surendra Belbase	Georg August University of Göttingen	United States: sub-national	I am a Business and Social Science graduate and interest in Social entrepreneurship, Media Anthropology, Censorship and Marginalisation issues.

Symrun Razaque	NUST, H-12. Islamabad	Laos	Postgraduate student in quarantine
Tanja Matheis	University of Kassel	Benin, Indonesia	PhD candidate, Friedrich Ebert Foundation Fellow, writer and consultant with a background in economics, passionate about decent work in supply chains.
Tasia Wagner	Institute for Islamic Strategic Affairs (IISA), programme advisor & advisor to Executive Director	Finland: sub-national	A passionate researcher with a strong background in international relations.
Temur Davronov	Carleton University	Uzbekistan	I'm a first-year MA student in European, Russian and Eurasian studies program at Carleton University in Ottawa, Canada.

Togg do Pooii	University of	Dolging	I hold a BSc in
Tess de Rooij	University of	Belgium	
	Amsterdam		Politics,
			Psychology, Law &
			Economics (politics
			major, cum laude)
			from the University
			of Amsterdam. I've
			worked as a guest
			teacher and
			campaigner, and
			I'm currently
			deciding where to
			pursue my master's
			next year - next to
			assisting in the
			CoronaNet
			Research Project!
Tess Martin	Sciences Po	Micronesia	Research Project! Tess Martin is an
Tess Martin	Sciences Po Paris	Micronesia	
Tess Martin		Micronesia	Tess Martin is an
Tess Martin		Micronesia	Tess Martin is an American
Tess Martin		Micronesia	Tess Martin is an American undergraduate
Tess Martin		Micronesia	Tess Martin is an American undergraduate student currently
Tess Martin		Micronesia	Tess Martin is an American undergraduate student currently pursuing her
Tess Martin		Micronesia	Tess Martin is an American undergraduate student currently pursuing her degree in Politics
	Paris		Tess Martin is an American undergraduate student currently pursuing her degree in Politics & Government at
Tess Martin  Tilda Nilsson Gige	Paris  Sciences Po	Micronesia	Tess Martin is an American undergraduate student currently pursuing her degree in Politics & Government at
Tilda Nilsson Gige	Paris  Sciences Po Paris	Libya	Tess Martin is an American undergraduate student currently pursuing her degree in Politics & Government at
	Paris Sciences Po Paris University of		Tess Martin is an American undergraduate student currently pursuing her degree in Politics & Government at
Tilda Nilsson Gige Tom Seiler	Paris  Sciences Po Paris University of Bremen	Libya Denmark	Tess Martin is an American undergraduate student currently pursuing her degree in Politics & Government at
Tilda Nilsson Gige	Paris Sciences Po Paris University of	Libya	Tess Martin is an American undergraduate student currently pursuing her degree in Politics & Government at

Ursela Barteczko		Chile, Uruguay, Chile	Enthusiastic student of Political Science, Sociology, Data Science and Artificial Intelligence.
Vellah Kedogo Kigwiru	Technical University of Munich	Kenya	A Doctoral Research Fellow at the Technical University of Munich, Hochschule für Politik and Guest Researcher at Marx Planck Institute für Innovation and Competition, Munich Germany.
Veronika Bartáková	London School of Economics and Political Science	Slovenia, United Kingdom	I am a student at the London School of Economics and Political Science, pursuing an MSc in Theory & History of International Relations. I am passionate about research, data, public policy and I am very excited to be a part of this project.

Victor Abuor	Kenyatta	Zambia	A data-driven
	University		young professional
			passionate in
			research, data
			analysis and
			presentation.
Victoria Atanasov	Humboldt	Japan:	MA Gender
	University	sub-national	Studies, Rikkyo
	Berlin,		University
	Rikkyo		Tokyo/Humboldt
	University		University Berlin
	Tokyo		
Vida Han	Dual BA	Burkina	I am a student in
	SciencesPo	Faso	the Dual BA
	Paris /		program between
	Columbia		SciencesPo and
	University		Columbia
			University who
			strongly believes in
			the power of
			kindness, and is
			interested in
			sustainability,
			development and
			management.

Vinayak Rajesekhar	Independent Researcher and Commu-	India	Vinayak is an independent communications
	nications		professional based
	Professional		in New Delhi,
			India. He holds a
			masters degree in
			international
			security from the
			Paris School of
			International
			Affairs, SciencesPo
			in Paris, France.
Winrose Njuguna	Practising	Somalia,	
	Advocate,	Sudan	
	Commercial		
	& Corporate		
	Law		
Xian Jin	Technical	China	
	University of		
	Munich		
Yifei Zhu	FU Berlin	North Korea	I am a PhD
			student on political
			science and East
			Asia Studies at FU
			Berlin

Yoes C. Kenawas	Northwestern	Bahamas,	I am PhD
	University	Philippines	Candidate in
			Political Science at
			Northwestern
			University,
			specializing in
			subnational
			dynastic politics in
			Indonesia and
			Southeast Asia.

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