

Chapter 13

Observational Databases

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Abstract. Why do we need databases in research on comparative judicial behavior? In this chapter we argue that comprehensive assessments of common models on judicial behavior require data on decisions, judges and environmental characteristics. An expert survey shows that data on these characteristics were often published in rectangular datasets focusing on courts in the United States or specific International Courts mostly allowing assessments of the attitudinal model of judicial behavior. Databases on courts in other regions that allow to assessing judicial behavior are published more recently. They allow for the modelling of different entities – such as information on decisions and information on judges – and establishing the relationships between them; e.g. linking specific judges to specific decision outcomes. The advantage of designing databases is to summarize clearly specified concepts in parsimonious and flexible ways without producing redundancies when collecting data. Comparative judicial databases including information on the action of multiple courts are scarce. However, scholars of judicial politics can learn from existing comparative projects such as the Comparative Study of Electoral Systems (CSES) to design a Comparative Study of Judicial Behavior (CSJB).

Keywords. datasets • databases • judicial behavior • parsimony, flexibility, specificity, non-redundancy • Constitutional Court Database

1 Introduction

Why do we need databases in research on comparative judicial behavior? Databases facilitate the assessment of various key aspects of democracy, such as judicial independence and the judicialization of politics. In order to evaluate competing behavioral models data of similar nature but partially different content is necessary. Data are “systematically collected elements of information about the world” (King, Keohane and Verba, 1994, 23) commonly structured in rectangular datasets. Consider the legal model of judicial behavior which is built on the premise that judges are constrained by constitutional norms and their legal training when making decisions (Parcelle Jr., Curry and Marshall, 2011, 29-32). To assess this model, we need to understand the ways in which opinions are written which requires data on decision characteristics. On the contrary, the attitudinal model assumes that the individual preferences of the judges matter when they make decisions (Parcelle Jr., Curry and Marshall, 2011, 34-39). Data on decision characteristics is essential to the attitudinal model as well but a comprehensive assessment requires identifying the relationship between decision characteristics and characteristics of individual judges, e.g. their potential partisan leaning or voting pattern. Databases are helpful tools to establish such relationships and enable scholars and practitioners to link datasets of different content and complexity. Specifically, databases model real-world objects – both entities (e.g., judges, the actor who nominated them, and judicial decisions) and relationships (e.g., ‘Chief Justice Roberts’ who was ‘nominated by President George W. Bush’ voted ‘with the majority in *Dobbs v. Jackson Women’s Health*’) – and capture structure between them (Foster et al., 2021, 71).

This chapter is no technical guide for computing databases, but the research cited here provides a point of departure for scholars eager to develop comprehensive and comparative databases in judicial politics. This is of great importance because courts

do not operate in a vacuum. To understand the wider implications of judicial behavior we require data structures that situate the judiciary within different societies and polities.

In this chapter we argue that databases in judicial politics are necessary to connect different characteristics to efficiently assess competing models of judicial behavior. To make this argument we outline the characteristics that we require data to cover in order to assess these behavioral models. The results from an expert survey show that existing data structures already include these characteristics to varying degrees (section 2). However, the data structures are developed for single cases and are seldom comparative in nature. Thus, they do not allow for an analysis of judicial behavior across countries or regions. Therefore, we continue outlining important features of database using one of the projects as an example (section 3). This allows to finally present ideas on how to develop an international comparative data-infrastructure project, the “Comparative Study of Judicial Behavior” (CSJB), accounting for the identified features (section 4). The concluding section summarizes our discussion.

2 Datasets and databases to study judicial behavior

In this section we argue that the different models of judicial behavior require data summarizing different characteristics of the judicial process. An expert survey we conducted shows that there are different data structures that already link multiple of those characteristics. However, databases that allow to study judicial behavior comparatively across countries or regions are scarce.

The most common models used to explain judicial behavior are the legal, attitudinal, and strategic model (see part on *Approaches to Judging* in this volume; Epstein, Šadl and Weinshall 2022). Each model is built on different premises which is why assessments require different information. The legal model assumes that judges make decisions based on their legal training using jurisprudential methods (Parcelle Jr.,

Curry and Marshall, 2011, 29-32). Accordingly, judges are constrained by the legal system (George and Epstein, 1992). Therefore, if judges wish to incorporate their preferences into their decisions then they can only do so through the means of decision characteristics; e.g. citing certain legal sources to derive at a particular verdict. Decision characteristics are a necessary precondition to contextualize judicial behavior. Without decisions there is no judicial behavior. Thus, we argue that a comprehensive assessment of the models of judicial behavior always requires decision characteristics.

The attitudinal model assumes that judges are unconstrained actors who follow their sincere preferences when making decisions (Schubert 1965; Rohde and Spaeth 1976; Segal and Cover 1989; Parcelle Jr., Curry and Marshall 2011, 34-39). It is plausible to assume that attitudes are shaped by a number of formative events, such as judges' age or the places judges' were educated. This requires to also collect a number of judges' characteristics in addition to various preference measures in order to assess the attitudinal model. Finally, the strategic model extends upon the attitudinal model adding the assumption that judges are constrained by the decision-making environment (Murphy 1964; Epstein and Knight 1998; Parcelle Jr., Curry and Marshall 2011, 39-49). Thus, judges account for fellow judges, political, or societal actors as well as the institutional setting when making decisions. These environmental characteristics structure judicial behavior and constrain judges in voicing their preferences; for example, when judges confront declining public support for their decisions and alter the clarity of writing in their decisions (Staton and Vanberg, 2008).

Figure 1 visualizes the considerations made. Decision characteristics are necessary to assess the legal model of judicial behavior (zone 1). These characteristics are also necessary to assess all other models. When individual judicial characteristics are added then assessments of the attitudinal model become possible (zone 2). Finally, analyzing the strategic model requires environmental characteristics either coupled with judicial characteristics (zone 3a) or not (zone 3b).

Figure 1: Overlapping entities necessary to assess judicial behavior

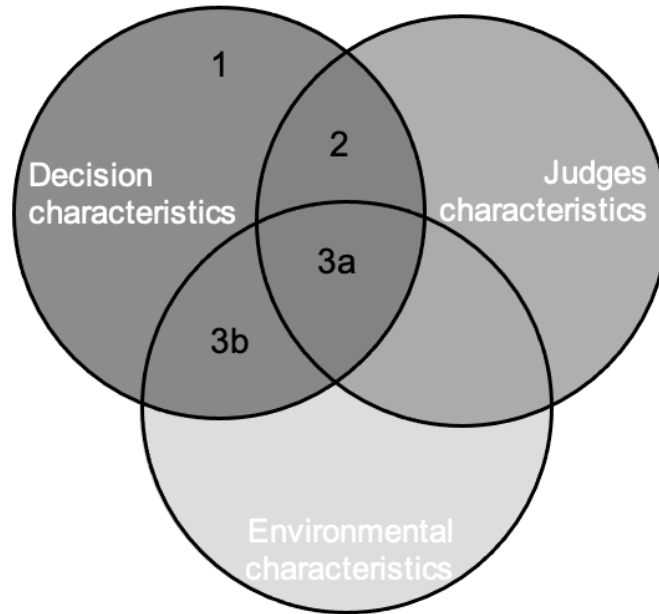


Table 1 highlights examples of data structures that include the different characteristics. The first column indicates the behavioral models that can be studied with the characteristics included in the data. The numbers speak to the overlapping zones in figure 1. The examples in the table are from a non-representative expert survey conducted in April 2022 among contributors to this handbook and among scholars that are mentioned in the acknowledgments in Garoupa, Gill and Tiede (2022, p. vii).¹ The experts mentioned different datasets and -bases and we reviewed the characteristics included in the data. The list makes no claim to be complete. We exclude datasets composed of tailor-made data collected for individual research projects that address very specific research questions. This includes for example Vanberg's (2005) data on Germany or Staton's (2010) data on Mexico. In line with our argument, we also excluded data that does not include decision characteristics, such as Hamann's (2019) data on German justices. What do we learn from table 1 on data available to study comparative judicial behavior?

¹We like to thank all participants of our expert survey for their valuable input.

Table 1: Examples of data structures to assess models of judicial behavior

Models	Type	Example	Access	Regions	Authors
1 - Legal	Database	PITAD.beta on investment arbitration cases	OA	various countries	Behn et al. 2019
	Datasets	The High Courts Judicial Database	OA*	various countries	Haynie et al. 2007
	Database	European Court of Justice Data	OA	Europe	Carrubba / Gabel 2011
	Datasets	Comparative Constitutional Reasoning Project	OA	various countries	Jakab et al. 2015
	Database	Inter-American Court of Human Rights Project	OA	South America	Loyola Law School
	Database	Websites by courts publishing decisions	OA	various countries	courts
	Database	Proprietary databases such as West Law	CA	various countries	often special publishers
2 - Attitudinal	Datasets /-base	Supreme Court Database	OA	United States	Spaeth et al. 2017
	Datasets /-base	Israeli Supreme Court Database	OA	Israel	Weinshall et al. 2018
	Database	CJEU Database (IUROPA Project)	OA	Europe	Brekke et al. 2023
	Database	Doranoh Database	LA	Norway	Grendstad et al. 2015
	Datasets	UK Supreme Court Data	OA	Great Britain	Hanretty 2020
	Datasets	U.S. Courts of Appeals Databases	OA	United States	Songer et al. 2008
	Datasets	DDL Judicial Data Portal	OA	India	Ash et al. 2021
	Datasets	Swedish Supreme Court Database	OA	Sweden	Lindholm et al. 2023
	Datasets	European Court of Human Rights Database (ECHRdb)	OA	International	Cichowski / Chrun 2017
	Datasets	EEOC Litigation Database	OA	United States	Kim et al. 2013
Database	Fee Law Project	OA	United States	Lissner et al.	
3a - Strategic	Datasets	Inter-American Court of Human Rights Database	OA	South America	Stiansen et al. 2020
	Datasets /-base	Constitutional Court Database	OA	Germany	Engst et al. 2020
	Datasets	European Court of Human Rights Database	OA	International	Stiansen / Voeten 2019
	Dataset	Judicial Review of Congress Database	OA	United States	Whittington 2019
		Comparative Law Project	NP	various countries	Gabel
3b - Strategic	Dataset	Compliance with Human Rights Tribunals Dataset	OA	International	Hillebrecht 2016

Note: Access OA is open access; LA is limited access either requiring registration or contacting the author(s); NP is data not published; CA is commercial access which requires a purchase. * Indicates that data is open access but downloaded files cannot be processed. Source: Non-representative expert survey among judicial politics scholars.

Overall most data structures mentioned by the experts include judges’ characteristics and are suitable for assessments of the attitudinal model. Among these is the Supreme Court Database (Spaeth et al., 2017), which is one of the most popular data structures in judicial politics. The Supreme Court Database is a prime example of data often not being published in a database format. Databases are flexible and allow for the modelling of entities and relationships to capture the structure between them (Foster et al., 2021, 71). In the originally published Supreme Court Database, entities and relationships are already connected in a case-centered or justice-centered dataset. Only recently an online tool was added that allows the browsing of the data in a flexible database format. Publishing datasets readily available for analysis instead of underlying databases seems not as uncommon as the column “Type” of the table in figure 1 may indicate.

Comparing the publication dates mentioned in the column “Author(s)” across the column “Models” and the “Regions” uncovers further patterns in the data available to study judicial behavior. First, datasets and -bases that allow for assessments of the legal and attitudinal model are longer established than data-structures suitable for analyses of the strategic model. Second, older data structure mostly cover courts in the United States from Courts of Appeal (Songer, 2008), certain decisions by Federal Courts (Kim, Martin and Schlanger, 2013) to the Supreme Court (Spaeth et al., 2017; Whittington, 2019) as well as popular highest international courts such as the European Court of Justice (Carrubba and Gabel, 2011) or the European Court of Human Rights (Cichowski and Chrun, 2017). Data on courts from individual countries such as the UK Supreme Court (Hanretty, 2020), the German Constitutional Court (Engst et al., 2020) or Indian Courts (Ash et al., 2021) has been published more recently. Moreover, while there are only a few data structures that collect information on various different countries such as the PITAD Database on investment and arbitration cases (Behn et al., 2019), the High Courts Judicial Database (Haynie et al., 2007), or the Comparative Constitutional Reasoning Project (Jakab, Dyevre and Itzcovich, 2017) most data structures focus on a single international court or national courts, e.g. the Inter-American Court of Human Rights (Stiansen, Naurin and Bøyum, 2020), the Norwegian (Grendstad, Shaffer and Waltenburg, 2015) or Israeli Supreme Court (Weinshall and Epstein, 2020). Finally, participants in our expert survey mostly mentioned European and U.S. American courts.

The column “Access” in figure 1 indicates that the overwhelming majority of data is open access albeit some projects do not get updated anymore. In this regard one should note that proprietary databases such as Thomson Reuters *Westlaw* or Germany’s equivalent *Juris* provide numerous original legal documents that allow to collect information for datasets but only as commercial licenses. The proprietary databases do not provide ready-to-use data structures for behavioral analyses. In-

stead, these databases are a collection of documents that allow deriving legal characteristics in raw form. The same holds true for official websites of individual courts that make decisions and legal documents searchable.

In sum, table 1 shows that data structures that include decision and justice characteristics are well established in judicial politics. Moreover, in recent years scholars tend to add environmental characteristics to such data structures. Thus, data to assess the different models of judicial behavior is available open access. Nevertheless, while the available data includes international courts the majority of data does not allow for comparative research across individual countries or regions. This is why in the next section we outlined how databases for comparative judicial behavior can be designed.

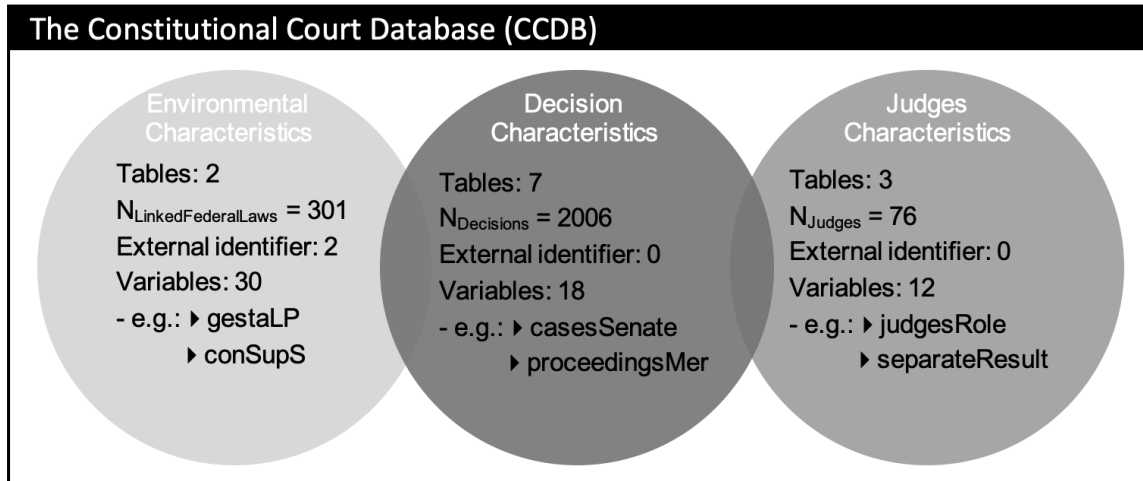
3 Developing comparative databases

In this section we identify features essential to the design of databases. To do so we present the Constitutional Court Database (CCDB, Engst et al. 2020) as an example of a database computed for a single country to assess judicial behavior. Afterwards we outline how to transfer the features important to the design of the CCDB to a larger international and comparative project.

3.1 Features of a database for a single court

The CCDB is a database recently published that includes decisions, judges, and environmental characteristics on three different layers. The database falls in zone 3a of figure 1. It summarizes information on 2006 decisions that include 3284 proceedings initiated by 4088 plaintiffs who referred 6790 issues to the German Federal Constitutional Court between 1972 and 2010 (*decision characteristics*). The database also includes information on separate opinions and background information on 76 judges who served on the court (*judges characteristics*). Finally, the database includes a

Figure 2: The Constitutional Court Database as a tool to study judicial behavior



Note: Variable counts only include substantive variables and no technical identifiers. See Engst et al. 2020 for further information on the Constitutional Court Database.

layer that allows linking the 301 federal laws referred to the constitutional court to a dataset on Germany’s legislative proceedings (*environmental characteristics*). Figure 2 visualizes the CCDB. The circles in figure 2 represent the different layers of the database including summary statistics on each layer. The layers reflect on the characteristics we require to assess judicial behavior in accordance with figure 1. What can we learn from the design of the CCDB?

First, the database consists of twelve different tables similar to rectangular datasets. The tables can be linked through identifiers internal to the databases and each table has at least one of these identifiers; e.g. the 2006 decisions can be linked to the 76 judges to compute a dataset that allows identifying the (normally) eight judges that make each of the 2006 decisions. Instead, of coding the judges’ information 2006 times when creating the initial dataset, it is only necessary to code the judges’ information 76 times. Obviously, 76 entries can be evaluated by the coders much easier than 2006 entries. When an error is identified for information on a single judge then the correction applies equally to all decisions this judge is linked to. Therefore, a database *reduces redundancies* in coding information which makes the data collection

less prone to error. If an error on one of the tables is identified it can be corrected easier than when reviewing a long dataset.

Second, a legitimate claim of importance to all data-driven projects is to resist irrational “data exuberance” (Weinshall and Epstein, 2020, 429-430). Reducing redundancies in coding is one way to achieve this. Moreover, linking information across tables in a database allows to stay focused on essential information of relevance to a data table. It is much easier to answer the question of the characteristics of judges one is interested in when looking at judges independent from decisions or votes. Thus, while the CCDB might appear complex at first sight, figure 2 shows that there are only about 60 substantive variables that allow to cover many characteristics necessary to assess judicial behavior. In our opinion that make the database *parsimonious*. This also makes its future maintenance easier.

Third, the different tables of the CCDB can be linked internally in multiple ways. For instance, the date a decision was published – which is a feature of a table summarizing information on a case – can be linked to a date included in a table summarizing public opinion data on Germany’s political parties. This way one can identify the support for a political party, say the Social Democrats (variable *conSupS*), on the date a decision was made. Equipped with this data scholars can begin to assess how political support influences judicial decision-making. Similar questions have been studied with tailor-made datasets in the past (e.g. Vanberg, 2005). Moreover, figure 2 shows that the CCDB also includes external identifiers as part of the environmental characteristics. These identifiers allow links to preexisting data external to the CCDB, for instance to Germany’s legislative proceedings. In sum, internal identifiers allow linking data within the CCDB in multiple ways while the external identifiers provide even more opportunities to add or create a number of datasets for a variety of specific research questions. This *flexibility* is a major advantage of databases over single datasets.

Finally, in order for a database to be parsimonious and flexible one has to be clear about the information coded. This is not only a question of the number of variables included in a database but also a question of how to transfer latent judicial concepts into relatable concepts understandable to a wider audience. Take for example the complex way in which judges write an opinion and argue a case on the merits. Most likely a majority of people is not interested in the legal details but a simplifying measure on the merits. In the CCDB the decision on the merits has been coded per proceeding in a trichotomous variable that indicates whether a referred proceeding is not justified, partially justified or justified on the merits (variable `proceedingsMer`). Similarly, the German Constitutional Court seldom publishes individual judicial votes which are frequently used in analyses of the attitudinal model in the US context (Epstein and Knight, 1998; Martin and Quinn, 2002). However, in rare instances the German judges publish separate opinions (Wittig, 2016) and while specific details on those opinions are not included in the CCDB, the results are coded in a trichotomous variable. This variable summarizes whether a separate opinion is written as a concurring, partially dissenting or fully dissenting opinion (variable `separateResult`). The way the dissenting opinions are coded should be compelling to a wide audience. Therefore, not all information can be coded in a parsimonious database and it is essential to simplify information while being *conceptually clear*.

In sum, databases are powerful tools to account for variables on each characteristic necessary to assess models of judicial behavior. Databases help to reduce redundancies, permit parsimonious data collection and provide for high flexibility in dataset production. To enable a large audience to work with databases scholars need to make sure that the concepts underlying the data collection efforts are clearly specified. The CCDB is an example of a database designed for the German Constitutional Court as a single case, though. Indeed, table 1 shows that the overwhelming majority of databases are designed for single courts. This is why in the next section we outline

how features of the CCDB can be transferred to a comparative project.

3.2 Conceptualizing a comparative judicial behavior database

What can we learn from developing the CCDB when conceptualizing other data structures for the analysis of courts (within and) across countries? We identified four features of importance to high-quality data infrastructures: reducing redundancies, parsimony, flexibility, and conceptual clarity. In this section, we outline the implications of these features when designing a comparative judicial behavior database as part of an international project.

Reducing Redundancies

Our first argument concerns the *reduction of redundancies*. As a field, we would benefit if we take advantage of opportunities to systematically learn from each other's expertise on particular courts and judicial systems in order to conceptualize and implement a comparative data infrastructure project. The project could be a driver of novel comparative research particularly *across* courts and legal systems.

It is reasonable to expect that such a data infrastructure can be a game-changer for the questions we aim to answer and for how we conduct comparative judicial research in the future. Currently, such research is often merely equated with studying courts and their decision-making behavior outside of the United States. Recent summaries of the comparative literature by regional specialists highlight that the prevailing research design in the reported studies consists of country-level or court-level case studies (see the respective chapters in Garoupa, Gill and Tiede, 2022).

Driscoll (2022) conducted a content analysis of articles published in top peer-reviewed political science journals between 2000 and 2018 (*American Political Science Review*, *American Journal of Political Science*, *The Journal of Politics*, *British Journal of Political Science*, *Comparative Political Studies* and the *Journal of Law and Courts*). The analysis provides evidence that only a minority of studies explicitly

implement a cross-national design.

Cross-national comparative work encompasses various approaches. There is research that tries to test general theories based on a country-by-country analysis. An example of this is the work by Brouard and Hönnige (2017). The authors utilize veto player theory to derive observable implications that can be tested comparatively. They gather context-specific measures of the positions of institutions (such as the highest court, parliament, government, and president) in the country-specific policy spaces of France, Germany, and the United States to examine how frequently the highest courts are absorbed by veto players. Since their key measures are context-specific, they cannot simply aggregate their data but instead rely on conducting a country-by-country analysis. They select their countries because system design differs greatly (Przeworski and Teune, 1970).

In a similar vein, Alarie and Green (2017) adopt a country-by-country analysis of five high courts: the US Supreme Court, the UK Supreme Court (including its predecessor, the House of Lords), the Supreme Court of Canada, the High Court of Australia, and the Indian Supreme Court. The study demonstrates that these courts vary along two dimensions and that the design differences correlate with how the courts decide. While the authors do compile some country-specific measures, their main source of data is the publicly available *High Courts Judicial Database* (HCJD) assembled by Haynie et al. (2007).

Finally, there is research that pools data for analysis when relevant measures are comparable across different contexts. Take, for instance, Skiple, Bentsen and McKenzie (2021) analysis of dissent in tax decisions in the Norwegian and Danish supreme courts. Recognizing that courts may respond differently to increasing caseloads by exercising discretionary docket control to varying degrees, the authors employ a most-similar design (Przeworski and Teune, 1970) and pool the data from both courts. Their aim is to examine whether discretionary dockets are associated with higher

dissent and reversal rates compared to mandatory dockets. The data for this analysis is primarily sourced from available databases, namely the Danish Supreme Court Database (McKenzie, Bentsen and Skiple, 2016) and the Norwegian Supreme Court Database (Grendstad, Shaffer and Waltenburg, 2015).

To summarize, even though cross-national comparative work comes in different flavors, one obvious benefit of a comparative database is the provision of data across countries (or courts). Moreover, a second benefit lies in the development of such an infrastructure project. It requires scholars to coordinate their efforts to conceptualize the design of the database. This reduces redundancies (beyond mere technical aspects) by incentivizing scholars to contribute to a common good rather than duplicating each other's data-collection efforts.

Parsimony

Our second argument concerns *parsimony*. What does a *parsimonious data collection strategy* imply when developing a comparative database? To enable scholars to eventually use the most common explanatory models of judicial behavior for their analysis any data infrastructure should provide information not only on decisions and judge characteristics but also on environmental characteristics. As with children just before their birthday, though, the wish lists quickly become quite long. These data are not only compiled at some point in time but also need to get updated to maintain such a project over time.

Thus, scholars involved in designing such an infrastructure project need to resist data exuberance. Less is more! After taking stock of existing resources — for instance the Israeli Supreme Court Database (Weinshall and Epstein, 2020), which in many respects is modeled after the US Supreme Court Database — scholars need to define ‘core characteristics’ that should be collected consistently for all courts and countries included in the comparative database.

Such characteristics describe decisions, judges as well as the environment. They

obviously live on different observation levels. While having a master plan is definitely a good thing, scholars are luckily not simply a bunch of Trotskyist internationals. They can allow themselves to change plans – for instance, when updating the data across countries and courts. Scholar might therefore distinguish cross-sectional core characteristics, that are only measured once, from longitudinal core characteristics that are repeatedly measured. This allows for the possibility that at some point also new characteristics can make it in the set of “core characteristics” when starting to update the initial data collection plan. However, relevant characteristics should apply to a large enough subset of cases to allow for a cross-country comparative analysis of those characteristics.

Ideally, one can develop pipelines to automate the updating process for some of these characteristics. The less human judgment is involved in coding decisions, the more reliable is the data collection strategy. The more data can be collected automatically or the fewer characteristics need to get updated, the more room there is to implement ideas for new characteristics that should get coded in in subsequent data collection phases. Additionally, alongside the core characteristics, there can be specific characteristics that apply only to a subset of courts or countries.

In summary, each data collection phase to maintain the data infrastructure requires scholars to have a predefined list of characteristics that should be collected. However, it is important to recognize that this list may undergo partial changes when transitioning from one data collection phase to the next.

Flexibility

Our third argument concerns *flexibility*. Scholars should leverage the inherent flexibility offered by databases in contrast to standalone datasets. Therefore, in addition to determining what should be collected in a comparative manner and at which level of observation, scholars also need to consider how newly collected data can be systematically integrated with existing data infrastructure projects. Databases offer internal

links that enable efficient combination of data stored in separate datasets. When designing a comparative database, scholars should also consider incorporating external links to facilitate the incorporation of specialized information to enhance the richness of the data structure.

By incorporating valid external links, some of the burden of compiling environmental characteristics can be alleviated. By including a time variable for court decisions, for instance, scholars could collect their own information to better characterize the political environment in which the respective decisions are published, such as election results or the popularity of the respective government.

Another possibility would be that such time and decision identifiers allow tracking down (potentially using external data) the actual decision text to conduct an analysis of who cites whom among the apex courts and which potentially common other legal sources have been cited. In addition to the decision text itself one could also include accompanying text material such as briefs, press releases or news reports related each decision. Moreover, one could also include qualitative interview data, survey marginals but also potentially variables derived from verbatim notes, audio or video files from hearings of the cases or results from crowd-sourced coding or lab experiments that are related to a decision as well. The sky is the limit.

Likewise, by including court and country identifiers as an external link, for instance, scholars could integrate existing (or newly collected) country-level datasets about institutional characteristics to the analysis. These additional country-level datasets provide valuable information on the system of governance or the legal system.

In summary, by proactively considering how different data sources can be linked to the comparative database through external links and maintaining a flexible data structure also through internal links, the data infrastructure becomes not only highly beneficial to those who conceptualized it but also to a wide range of additional users.

Conceptual Clarity

Our fourth argument concerns *conceptual clarity*. This is arguably the most complex feature to address when designing a comparative database. It necessitates consensus among scholars regarding the relevant theoretical concepts to be used, how they should get operationalized into variables, and the methods of measuring them at which appropriate level of observation. Building on the expertise of a diverse group of experts becomes crucial in overcoming challenges related to translating relevant terms and concepts, as well as ensuring that concept specifications are applicable across different countries or legal systems.

It is well known that the meaning of even the most fundamental concepts, such as case outcome, a judge’s ideology, or case characteristics, can vary across countries (e.g., Gill and Zorn, 2022, p.312–318). Consequently, achieving direct comparability of these concepts is not straightforward. This challenge is common in the field of comparative politics. The literature suggests (e.g., van Deth, 1998) addressing such challenges by specifying “functional equivalent” rather than identical concepts. Equivalent concepts are related to other concepts in an analogous way across contexts. This often requires “increas[ing] the level of abstraction of the concepts” (van Deth, 1998, 6) until context-specific differences seem not to matter anymore. This is not a free lunch, though, as increasing abstraction could easily lead to concept stretching (Sartori, 1970, 1041) such that the functional equivalent concepts lose their analytical power.

Think about how one could conceptualize decision outcomes. The Supreme Court Database for example focuses on the ideological direction of a decision, i.e., whether an outcome is liberal rather than conservative. Outcomes of decisions in other countries might vary along different substantive dimensions — for instance, more or less EU integration in the case of the Court of Justice of the European Union (CJEU). By increasing abstraction of the concept ‘outcome of a decision’ one can avoid any

substantive characterization of outcomes that hardly travel across contexts.

An outcome could be simply specified in terms of whether the plaintiff wins, partially wins or whether the defendant wins. Operationalizing outcomes with regard to those facts we may even end-up with a more abstract operationalization; e.g., plaintiff wins the case or not. Thus we avoid defining what a ‘partially win’ implies. This more abstract, yet valid and reliable measurement strategy travels well across different contexts. Another strategy is used by Skiple, Bentsen and McKenzie (2021). When conceptualizing their nonunanimous decision variable they distinguish between disagreement about outcome (dissents) and disagreement about the rationales (concurrences). Given that they like to pool the data across different contexts they realize that this can only be done for dissents but not for concurrences. Hence they only code and analyze dissents as a decision outcome.

Most importantly, though, the validity of cross-national measurement strategies must be established rather than assumed. Additionally, the respective coding protocols should minimize the use of human judgment in order to enhance reliability. Reliability is a crucial criterion for defining a reproducible strategy that facilitates the updating of observations within a new time frame in a given context. It is also essential for ensuring that observations from new contexts can be added to the existing infrastructure.

Finally, conceptual clarity is increased by mapping out a precise case selection strategy that defines the criteria for including an observation and determines the appropriate level of observation for each characteristic to be coded. Taking the example of decision outcomes again, we can consider the decision-level outcome or a more refined strategy that examines how the court disposes of each legal issue per case. The latter approach provides more nuanced information that would otherwise be overlooked. However, refined coding strategies are not necessarily superior. They require more effort and potentially more human judgment during the coding process.

Furthermore, if the underlying theory or other variables do not vary across different legal issues within a case, it becomes questionable why one should invest additional coding effort to obtain a more detailed picture.

To summarize, ensuring conceptual clarity is crucial but can be a challenging task. Designing a comparative database involves establishing case selection criteria, conceptualizations, and coding protocols that are applicable across different contexts. These procedures should be reproducible, allowing others to add new countries and courts in the future or update the existing data for different time periods.

4 An institutional proposal for action: The “Comparative Study of Judicial Behavior”

How should we move forward? While it may have been controversial decades ago (e.g., Tate, 1989, 1992), by now it seems to be common sense for everyone working on courts comparatively that the field needs to find ways to compile, regularly update, and maintain a high-quality data infrastructure for analyzing courts and judicial behavior within and across countries.

In order to make real progress and efficiently allocate our time and resources towards data compilation, our field needs to change its approach to overcome the dominant data collection strategy known as the “one-off” approach (e.g., Epstein and Weinshall, 2021; Weinshall and Epstein, 2020). Currently, scholars often collect data and measures that specifically align with their particular research questions, theories, and chosen institutional and political contexts to test their hypotheses. While this is individually rational – scholars need to use their time and research funds effectively – as a field, we would greatly benefit from finding ways to avoid duplicative scholarly efforts. Furthermore, we should also learn from failed attempts to build a database. Why were projects ultimately unsuccessful in accomplishing their intended goals?

How can we establish a high-quality data infrastructure and set it on the right

track? We propose looking at how scholars of comparative political behavior have done this previously. We can learn from them because scholars in this field face similar challenges than we do when studying judicial behavior comparatively. Conducting comparable election studies, which involve surveying voters in different electoral systems, poses similar challenges. Implementing the same survey instrument requires case-specific knowledge. Scholars need to understand the political context in which the survey is conducted. They also need to understand the nature of party competition in a country and how its institutional context, such as the electoral system, pre-structures various party strategies and voter behavior. Additionally, scholars need to have sufficient language proficiency to ensure the comparability of different implementations of the same survey items in different languages. To achieve this, scholars must collaborate and pool their resources and expertise.

We propose the establishment of a collaborative research program called the “Comparative Study of Judicial Behavior” (CSJB) with research teams from around the world. The aim is to create and maintain a high-quality data infrastructure for comparative judicial research, similar to the “Comparative Study of Electoral Systems” (see <https://cses.org/> for more information). The CSES is a collaborative program for election studies that was institutionalized by scholars of comparative political behavior two decades ago. Participating teams include a common module of survey questions in their post-election studies to measure respondents’ voting behavior and political attitudes during national elections. In addition to individual survey data, the resulting data includes contextual variables that characterize features of, e.g. the electoral district, the overall polity, and the electoral system, providing additional context for understanding respondents’ voting decisions. All this election- and country-specific information is merged with the survey data to create a single, publicly available dataset. Every five years, a new CSES Module is designed with a different substantive theme, selected to address relevant questions in comparative

political behavior.

The research design, the respective required comparative data as well as the study design, e.g., inclusion criteria, could be developed by a module planning committee, an international committee of scholars of judicial behavior in political science, law and neighboring fields such as sociology and economics. The design is then implemented in each participating country by a scholar or a team of scholars – the country collaborators. Similar to the CSES operations, those country collaborators possess enough case-specific knowledge to organize the data collection within their country. This requires the planning committee to lay out conceptualizations and coding protocols that travel across legal systems and are reproducible (Weinshall and Epstein, 2020).

The respective planning committee needs to decide how the first data module should look like, i.e. which case-level and judge-level data should get collected systematically. Moreover, in addition to case-level and judge-level data the module planning committee should define macro-level characteristics such as features about the court and its internal decisions-processes, as well as characteristics of the legal system together with variables (or at least external identifiers for them) that define the political context (e.g., public opinion data, election results) in which the judicial decisions are made. Such characteristics are on the macro level in the sense that they apply, for instance, to each case-level variable in the same way.

Actively resisting data exuberance is of utmost importance for the committee to motivate scholars participating in this endeavor and to help update already compiled data. Thus, not every characteristic of judges, courts, decisions, and the political context can be included. But whatever characteristic should get coded (at whatever level of observation) requires a detailed coding protocol to make sure that the data are valid and country collaborators can reliably collect (by minimizing human judgment) the data.

Similar to the CSES, the planning committee of the first “Comparative Study of Judicial Behavior” module could initially establish a common set of baseline variables and measures that would be expanded and updated in subsequent modules. The sources from which these data is generated are manifold. In addition to the decisions themselves, including accompanying textual material such as briefs, press releases, or news reports, qualitative interview data, survey data, and also potential variables from verbatim notes, audio or video files of hearings on the cases, or results of crowd-sourced coding or laboratory experiments could be included.

While potentially not all variables can be updated, nevertheless, a master plan is required that defines which key variables should get updated from one module to the next (or even automatically if such pipelines can be established). Such a plan ensures that the infrastructure is sustainable while not growing too big such that new country teams can still join this collaborative program at a later stage without hesitation. The CSES is meanwhile coordinating its 6th data module.

Why should scholars participate in this comparative infrastructure project? One incentive to participate in the “Comparative Study of Judicial Behavior” research program could be to get access to a (centralized) tech-support infrastructure that develops and adapts data-collection pipelines to automatically and, thus, reliably code the respective characteristics within a given context. Hand-coding should be avoided as much as possible. This would enable researchers with less knowledge and expertise in automatic data-collection strategies (e.g., web-scraping, regular expressions ect.) and programming expertise to also collect more than the required data to further their personal research agenda as well. In addition to defining particular characteristics, the tech-support infrastructure could provide tools to automatically use the text of a decision to categorize it depending on the agenda defined by the module’s planning committee. The resulting data should be open and accessible. Therefore, it should get deposited along with coding protocols of the macro data to the project’s headquarter

for data checking and to prepare for its immediate release to the research community.

Even if a physical comparative judicial database may not grow as fast as we all would like, it would be nevertheless instrumental that the datasets used in research – as a way of establishing a best-practice norm – become available in various data repositories. If they include external identifiers, such data can be used for new research projects of scholars who might be willing to extend or update existing data.

5 Conclusion

Why do we need databases in research on comparative judicial behavior? The assessment of common models on judicial behavior requires knowledge of decisions, judges, and environmental characteristics. Databases allows us to summarize information on all these characteristics in parsimonious and flexible ways without producing redundancies in collected data. An expert survey we conducted shows that while common rectangular datasets were originally used to study the attitudinal model of judicial behavior, relational databases addressing the strategic model are published in recent years. However, most existing data structures address single national courts or specific international courts. In order to design an international database for a Comparative Study of Judicial Behavior existing comparative projects, such as the Comparative Study of Electoral Systems, can function as role models.

The development of judicial databases is of major importance to modern research on democracy. Databases allow us to embed courts and judicial action within political systems and societies. Thus, they portray courts as what they are: key institutions in the separation of powers. In order to understand developments within political regimes open access data on the judiciary is as essential as data on the executive and the legislative branches. Thus, it is important that we as a community are able to engage in large scale comparative data driven projects. Developments that limit the opportunity to analyze data structures (e.g. the French Article 33 LOI n° 2019-222

du 23 mars 2019) eventually hinder scientific progress. After all, databases in judicial politics allow to evaluate the independence of judges, the judicialization of politics as well as the politization of the judiciary and the protection of individual rights as essential features of democracy.

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