

The Czech Constitutional Court dataset*

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Building high quality datasets can enable the European empirical legal research to catch up with the US especially. While on the one hand, institutional features make the civil law harder to research empirically, on the other, there is still plenty of room for creativity and methodological rigor. The present article introduces a dataset on the Czech Constitutional Court while aiming at bridging the gap. To this end, the dataset contains rich information on the background of the cases, background of the justices, their clerk teams as well as the complete text corpus of all decisions until the end of 2023. The dataset adheres to the principles of tidy data as well as to the principles of accessibility, reliability, foundationality, and capacity to address real-world problems.

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1 Introduction

Although it has been traditionally espoused that there has been a divide between the empirically oriented US legal scholarship, stemming from a different perception of the role of courts and judges, and the rest of the world (Hamann 2019, 416). Therein the judges have been viewed and empirically researched as political (Carrubba et al. 2012; Clark and Lauderdale 2010; Epstein and Knight 1997; Lauderdale and Clark 2014; Sunstein et al. 2006) or strategic (Cameron and Kornhauser

*Replication files are available on the author’s Github account (https://github.com/stepanpaulik/apex_courts_dataset/). **Current version:** December 12, 2023

2017; Clark, Engst, and Staton 2018; Epstein, Landes, and Posner 2011; Epstein and Knight 2000; Kornhauser 1992b, 1992a; Posner 1993, 2010; Roussey and Soubeyran 2018) actors.

In contrast to, especially in European legal systems, such as the one at hand - Czechia, judges have been perceived as “proclaimers of law” and the law handed down by them (Hamann 2019, 417). Such a view had hindered empirical legal research in Europe. The lack of empirical legal research could also be partially blamed on lack of high quality data, a prerequisite for any quantitative empirical research. At least so the story goes until recently. The interest in empirical legal studies has picked up in the last years across the whole continent, including studies on plethora of topics within Germany (Arnold, Engst, and Gschwend 2023; Coupette and Fleckner 2018; Benjamin G. Engst et al. 2017; Wittig 2016), Spain and Portugal (Hanretty 2012), the UK (Hanretty 2020) or the EU institutions (Bielen et al. 2018; Brekke, Naurin, et al. 2023; J. Fjelstul 2023; Joshua C. Fjelstul 2019; Joshua C. Fjelstul, Gabel, and Carrubba 2022).

Publications of new high quality publicly accessible data have gone hand in hand with these developments. To the many released comprehensive data sets in the recent years belong namely the Europa project’s CJEU database (Brekke, Fjelstul, et al. 2023), the German Federal courts (Hamann 2019) as well as the Constitutional Court (Benjamin G. Engst, Hönnige, and Gschwend Forthcoming).

To the author’s best knowledge, there have been solitary attempts go gather data in some shape or form in the Czech context (Harašta et al. 2018; Novotná and Harašta 2019), mainly thanks to the Institute of Law and Technology based in Brno, as well as isolated attempts to conduct quantitative methods or research employing natural language processing and alike methods (Chmel 2017; Eliášek, Kól, and Švaňa 2020; Harašta et al. 2021; Vartazaryan 2022). Unfortunately, the former group does not always adhere to the principles of high-quality infrastructure, namely the principle of foundationality, espoused by Weinshall and Epstein (2020), p. 424, the latter group did not publish data/code at all. The output of the law and economics/criminology team centered around Jakub Drápal and Libor Dušek stands out as the only systemic effort to conduct replicable quantitative legal research in Czechia (Drápal 2021, 2023; Drápal, Westermann, and Savelka 2023; Drápal and Dusek 2023; Drápal and Pina-Sánchez 2023; Drápal and Šoltés 2023). The data they are working with currently are still unpublished.

Therefore, the effort to put together and to publish a high-quality dataset on the CCC is more than warranted. The article proceeds as follow. In the section X, I introduce the CCC, namely its compositions, its internal organization and its powers. In the section X, I introduce the CCC dataset. Therein, I briefly discuss its structure, describe the variables. The section X then discusses the adherence of the CCC dataset to four principles of a high-quality dataset, including its relevance for research, as well as to the adherence of the tidy data principles. The last section concludes.

2 A brief primer on the CCC

The CCC consists of fifteen justices, out of which one is the president of the CCC, two are vice presidents and twelve associate justices (following the terminology of Kosař and Vyhnanek 2020). These fifteen justices are appointed by the president of the Czech republic upon approval of the Senate. The justices enjoy 10 years terms with the possibility of re-election; there is no limit on the times a justice can be re-elected. The three CCC functionaries are unilaterally appointed by the Czech president.

Regarding the competences, the CCC is a typical Kelsenian court inspired mainly by the Ger-

man Federal Constitutional Court. The CCC enjoys the power of abstract constitutional review, including constitutional amendments. The abstract review procedure is initiated by political actors (for example MPs) and usually concerns political issues. Moreover, an ordinary court can initiate a concrete review procedure, if that court reaches the conclusion that a legal norm upon which its decision depends is not compatible with the constitution. Individuals can also lodge constitutional complaints before the CCC. Lastly, the CCC can also resolve separation-of-powers disputes, it can *ex ante* review international treaties, decide on impeachment of the president of the republic, and it has additional ancillary powers (for a complete overview, see [Kosař and Vyhnaněk 2020](#)).

The CCC is an example of a collegial court. From the perspective of the inner, the CCC can decide in four bodies: (1) individual justices, (2) 3-member chambers (*senáty*), (3) the plenum (*plénium*), and (4) special disciplinary chambers. However, the 3-member chambers and the plenum play a crucial role. The plenum is composed of all justices, whereas the four 3-member chambers are composed of the associate justices. Neither the president of the CCC or her vice-presidents are permanent members of the 3-member chambers. Until 2016, the composition of the chambers was static. However, in 2016, a system of regular 2-yearly rotations was introduced, wherein the president of the chamber rotates to a different one every 2 years. I am of the view that such a institutional change opens up potential for quasi-experimental research similar to the Gschwend, Sternberg, and Zittlau ([2016](#)) study utilizing judge absences within the 3-member panels of the German federal constitutional court. In general, the plenum is responsible for the abstract review, whereas the 3-member chambers are responsible for the individual constitutional complaints.

In the chamber proceedings, decisions on admissibility must be unanimous, decisions on merits need not be, therefore, two votes are necessary.¹ In the plenum, the general voting quorum is a simple majority and the plenum is quorate when there are ten justices present. The abstract review is one of the exceptions that sets the quorum higher, more specifically to 9 votes.

A judge rapporteur plays a crucial role ([Chmel 2017](#); [Hořeňovský and Chmel 2015](#) study the large influence of the judge rapporteurs at the CCC). Each case of the CCC gets assigned to a judge rapporteur. The assignment is regulated by a case allocation plan (the original term is *rozvrh práce*, which is usually translated as a *work schedule*, however, I borrow the term *case allocation plan* from Hamann ([2019](#)), p. 673) She is tasked with drafting the opinion, about which the body then votes. The president of the CCC (in plenary cases) or the president of the chamber (in chamber cases) may re-assign a case to a different judge rapporteur if the draft opinion by the original judge rapporteur did not receive a majority of votes. Unfortunately, the CCC does not keep track of these reassignments.²

The CCC allows for separate opinions. They can take two forms: dissenting or concurring opinions. Each justice has the right to author a separate opinion, which then gets published with the CCC decision. It follows that not every anti-majority vote implies a separate opinion, it is up to the justices to decide whether they want to attach a separate opinion with their vote.

It may be concluded that the CCC takes after the american model of selection of justices, with the president of the republic and the upper chamber being in the spotlight, but is also a typical example of a Kelsenian specialised court with concentrated constitutional review. The CCC stands out in how powerful its constitutional review is, having attracted the power to review even constitutional amendments, thus, the CCC is a powerful player in the Czech political system. The internal organization of the CCC gives a lot of room for strategic considerations of its justices.

¹Which enables the attachment of separate opinions

²I unsuccessfully attempted to retrieve the information with the right to information

Not only due to the similarities with the constitutional adjudication powerhouses but also due to its own idiosyncrasies, I believe the CCC to be a worthy object of empirical legal research.

3 Description of the CCC dataset

3.1 Structure and Case inclusion

The CCC dataset includes all publicly available CCC decisions from its foundation until the end of 2023, that is **XXX** decisions. All the data is first scraped from the official CCC website [Nalus](#). The web scraping is followed by intense data cleaning and transformation processes.

The structure of the CCC dataset can, on a very basic level, be divided into case-level variables and justice-level variables. As I explain below such a structure does not imply that on the case-level, for example, every row is a case. The case-level (as well as the justice-level) variables have been split up into multiple tables for those variables that would otherwise imply more information within one cell, had the justice level structure been kept. For example, the composition of the court is a case-level variable - each case has certain composition of three or fifteen judges - however, in order to keep the one observation (case) per row structure, one would have to store multiple information in one cell (names of three or fifteen justices). Therefore, while I so flatten the data for the “master” table, for each variable there is also a separate table variable, in which the level is the variable-case-level. ## Case-Level Variables The case-level variables contain information on each and every case that the CCC has decided. There are variables uniquely identifying the cases (ECLI renamed to doc_id or case_id), the dates at which they were lodged and decided (the length of the proceedings has been added).

The procedural variables concern whether the decision was a *usnesení* or *nález* (roughly speaking the difference is between a decision on merits and on admissibility), what type of procedure the decision was made in (abstract review, constitutional complaint etc.), or what type of decision it was (which kinds of admissibility etc.).

The background variables concern among others parties before the CCC, which are identified (a private person, a legal person etc.), the body whose decision was under review (typically which court), the type of decision being review and alike. Moreover, the data on the subject proceedings (relates to the area of constitutional law) and field register (the pertaining area of general law such as criminal-proof, civil damages, or administrative proceedings) variables are included. Such variables are especially useful for controlling for specific features of cases that may have confounding potential.

Lastly, the dataset always contains the full text of the decision, which I believe makes it to stand out. A number of variables have already been mined from these texts. To name two, the compositions of the chambers have been mined using various regex variations of the justices’ names and dissenting opinions as well as their relationships to each other (whether more judges signed one dissenting opinion or whether they dissented separately) have been mined from the texts.

3.2 Justice-Level Variables

Justice-level variables contain information on the individual justices. Most of the information was collected manually from the official profile of the justices at the CCC website.

A lot of information about the justices can be learned from the case-level: which justice was the judge rapporteur in any given case, which justice sat on which case, or in which case and with

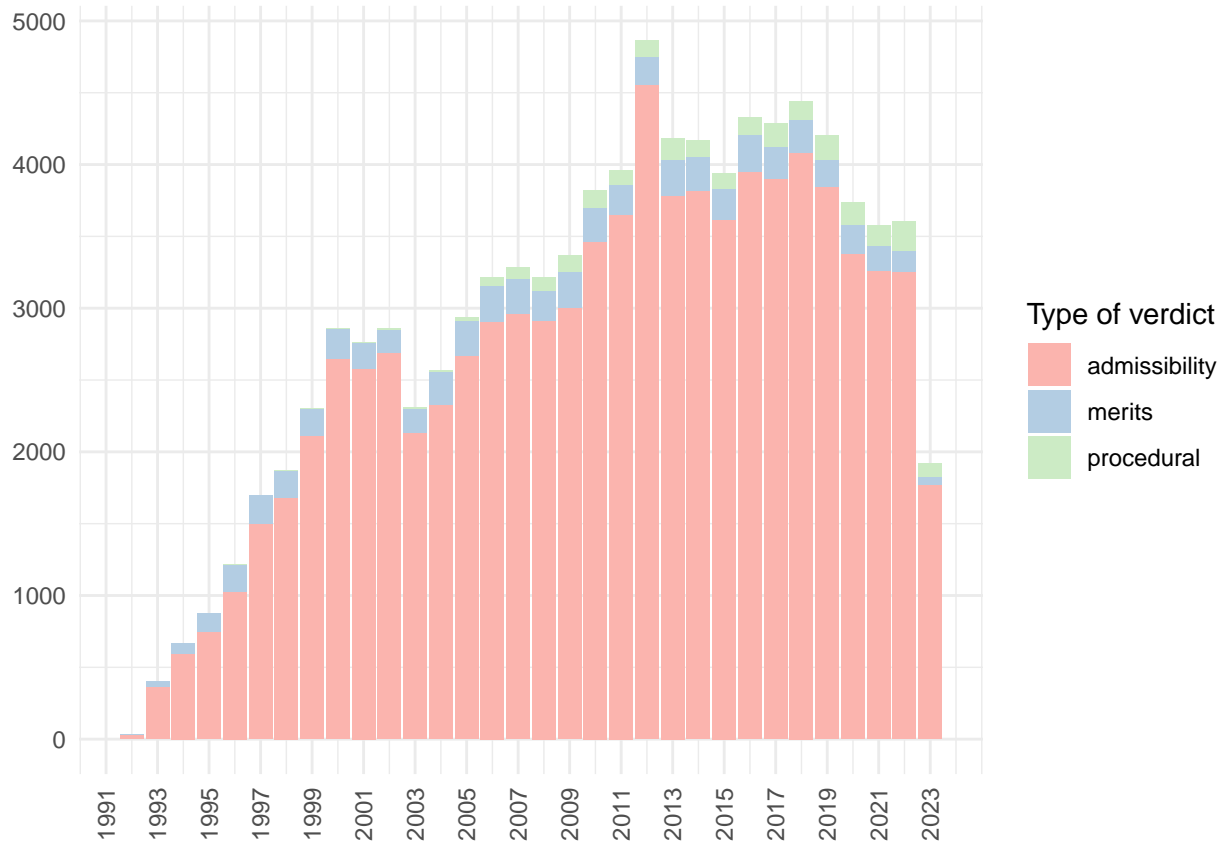


Figure 1: We can see the developing caseload overtime with the colors referring to the type of the decision. We can observe that while the caseload of the CCC has grown, the proportions between the admissibility and merits decisions have not changed, despite the efforts of the CCC to administer more decisions more quickly with the decisions on admissibility (especially the ill-foundness).

whom did any given justice dissent. The purely justice-level variables concern two main groups of information: biographic and about their clerk team.

Regarding the former, the CCC dataset includes information on the terms of the justices, their age and gender, their *alma mater*, highest reached degree, as titles play an especially important “ceremonial” role in the Czech legal environment, their professional background before they became a judge, or information on whether the justice ran for a reelection.

We can, for example observe, that although the CCC has a seat in Brno, most of its justices have graduated at the Prague Charles University. One could, for example, study whether the identification with the CCC differs among the justices based on their *alma mater*, as the judges from Prague must have either relocated to a new city or commuted to their work³

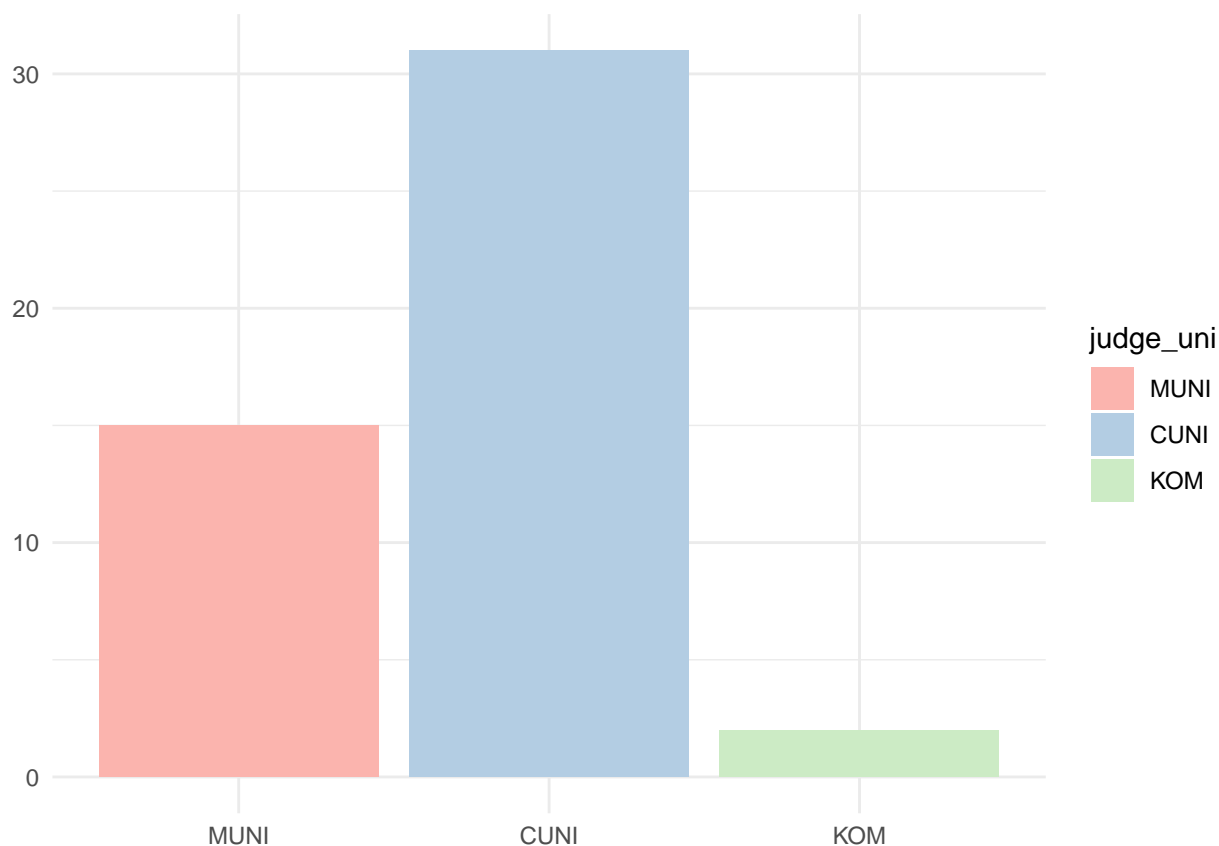


Figure 2: The alma mater among the CCC justices.

Secondly, the dataset also includes information on all 218 clerks that have served in the CCC’s history. To this end, I believe inclusion of such an information makes the dataset quite unique and opens up a lot of avenues for research. The information on the clerks contains under which judge they deserved, what was their term, what is their gender, education, or whether they studied abroad.

³Based on a personal insight, there is a number of examples of the later approach, namely of justices that never identified themselves with Brno and that would commute to the CCC only for a day or two per week.

4 Principles guiding the CCC dataset

The Czech Constitutional Court database is a “multi-user dataset” created in a principled manner. Epstein et al. (2014), p. 14 define a multi-user dataset as a dataset created with the purpose of that “[r]ather than collect data to answer particular research questions [...] the idea is to amass a dataset so rich in content that multiple users, even those with distinct projects, can draw on it.”

Accordingly, the Czech Constitutional Court dataset upholds the principles of a high-quality dataset espoused by Weinshall and Epstein (2020), p. 424, namely that the database is (1) capable of addressing real-world problems, (2) accessible, (3) reproducible and reliable, and (4) foundational.⁴ The data structure also follows the principles of tidy data. According to Wickham (2014), tidy data are data with such a tabular⁵ structure that

- (1) every column is a variable,
- (2) every row is an observation,
- (3) every cell is a single value.

Although the dataset contains one all-encompassing “master” table, some of the variables (for example concerned laws or applicant) contain multiple values nested in one cell. The reason is simple: the master table contains observations on the case-level, whereas whenever a variable contains more values per case, the data structure would then require a variable-case level. For this purpose, the dataset is also split up into multiple smaller tables on a variable-case level (for example dissenting judge-case level or concerned acts-case level), which can then be joined together relational database SQL-style in the form of unique keys.

4.1 Capacity to Address Real-World Problems

In the words of Weinshall and Epstein (2020), “By definition, data infrastructure should promote innovation, inventions, and insights. Although no product can guarantee these ends, infrastructure aimed at solving (or developing implications for) real-world problems increases the odds of success.” With the dataset at hand I hope to enable data- and evidence- based research on the CCC, which has so far not been an object of thorough empirical legal research. I now present two examples that corroborate the capacity of the CCC dataset to address real-world problems and research concerns.

4.1.1 Clerks

The first brief example concerns clerks of justices. Kosař and Vyhnánek (2020) argue that the clerks at the CCC play an especially vital and unappreciated role: “The initial idea of the legislature was to grant each Justice one law clerk who would take administrative burdens unrelated to substantive decision-making off the Justices’ shoulders. Yet the reality is different. First, due to the growing caseload, the number of law clerks per Justice increased gradually; today, each Justice has three law clerks. Moreover, law clerks de facto prepare drafts of most CCC judgments and decisions, and the real administrative burden has been ‘outsourced’ to secretaries of the cabinets.” The difficulty of studying the role of clerks was highlighted in the Clark, Engst, and Staton (2018) study on the effects of leisure on judicial performance.

The CCC dataset contains the information on all clerks that have served on the CCC, including their gender, education, beginning and end of mandates. Such an information can serve as a basis

⁴I decided to skip the principle of sustainability as I do not see the benefit of discussing it separately, most of its issues are answered in the other sections

⁵i.e. data with a column and row structure

for any research on the role of clerks. For the purpose of showing the capability of solving real-world problems, I present descriptive statistics. We can for example compare the gender distribution of clerks against that of judges. While we observe almost complete gender equality among the clerks

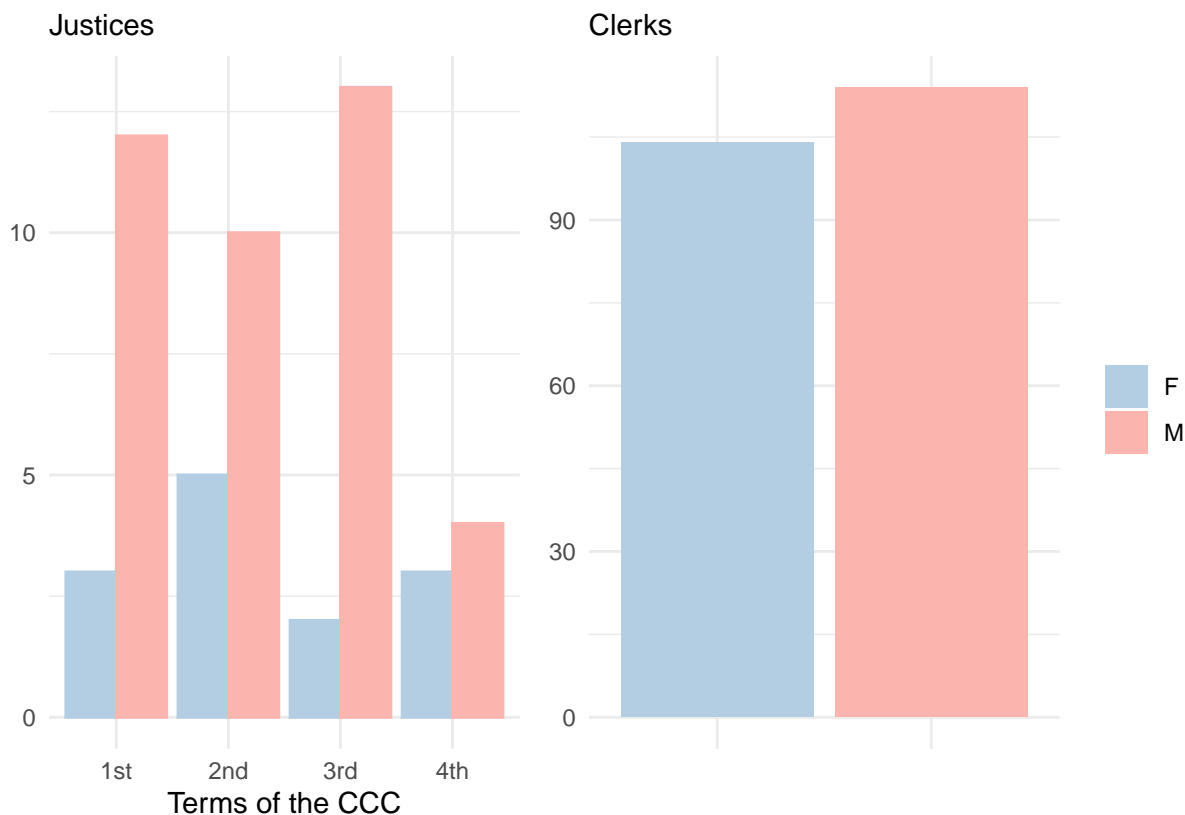


Figure 3: Comparison of proportions of genders among justices (on the left) and among their clerks (on the right). The X axis of the left bar chart signifies the terms of the CCC, which roughly correspond to decades.

We can further inquire whether male or female justice have different preferences regarding their clerks. Surprisingly, given the theoretical expectations, the judges at the CCC seem to prefer clerks equally whereas female judges seem to hire more male clerks.

4.1.2 Coalitions in the plenum

The research on judicial coalitions at the CCC has revealed that the third period of CCC between 2013-2023 is rather polarized and that there are two big coalitions of judges that clash against each other (Chmel 2021; Smekal et al. 2021; Vartazaryan 2022). The articles rely primarily on network analysis of the dissenting opinions in the plenary proceedings and make inferential conclusions based on a rather superficial descriptive analysis. I predict that should the relationship from the plenum indeed exist, they should also carry over to the 3-member panel hearings. The hypothesis is that panels composed of judges from both coalitions will be more likely to show disagreement in the form of dissenting opinion; i.e. whether having a 3-member panel composed of members of both judicial coalitions increases judges' likelihood of a dissent.. If this shows to be true, it would

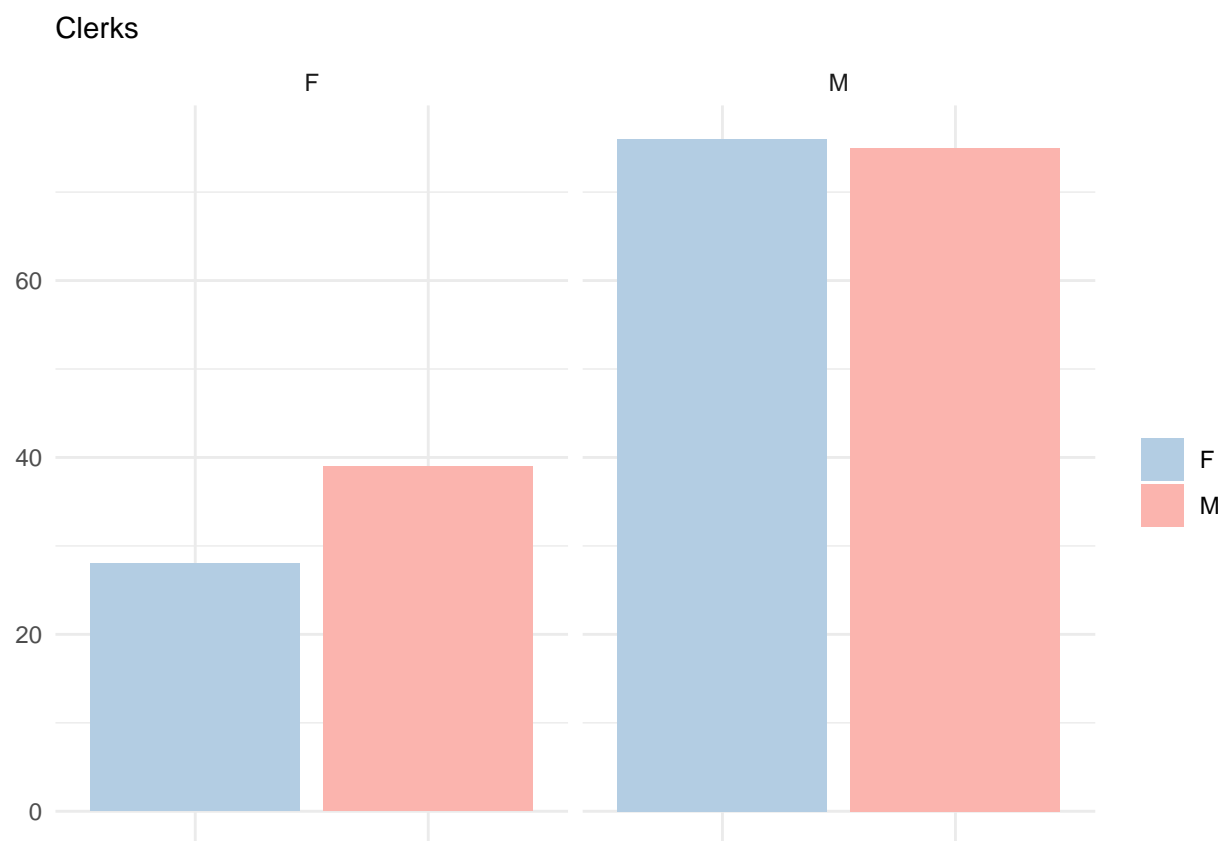


Figure 4: The different gender composition of the clerk teams facettet by the gender of the hiring justice.

provide further evidence to the two coalition theory of the CCC (Chmel 2021; Vartazaryan 2022; Smekal et al. 2021).

I very concisely tested whether the presumable existence of the coalitions carries over to and has any effect on the dissenting behavior of judges in the panels building a very simple Bayesian binomial logistic regression. I manually annotated which justices of the 3rd term were from which coalition, thus further proving that the CCC dataset adheres to the below discussed principle of foundationality. The model predicts the likelihood of a dissenting opinion occurring in the 3-member panel proceedings depending on whether the panel is fully composed of members from the 1st or 2nd coalition and on the composition being a mix of one minority justice from one coalition and the remaining two from the other.

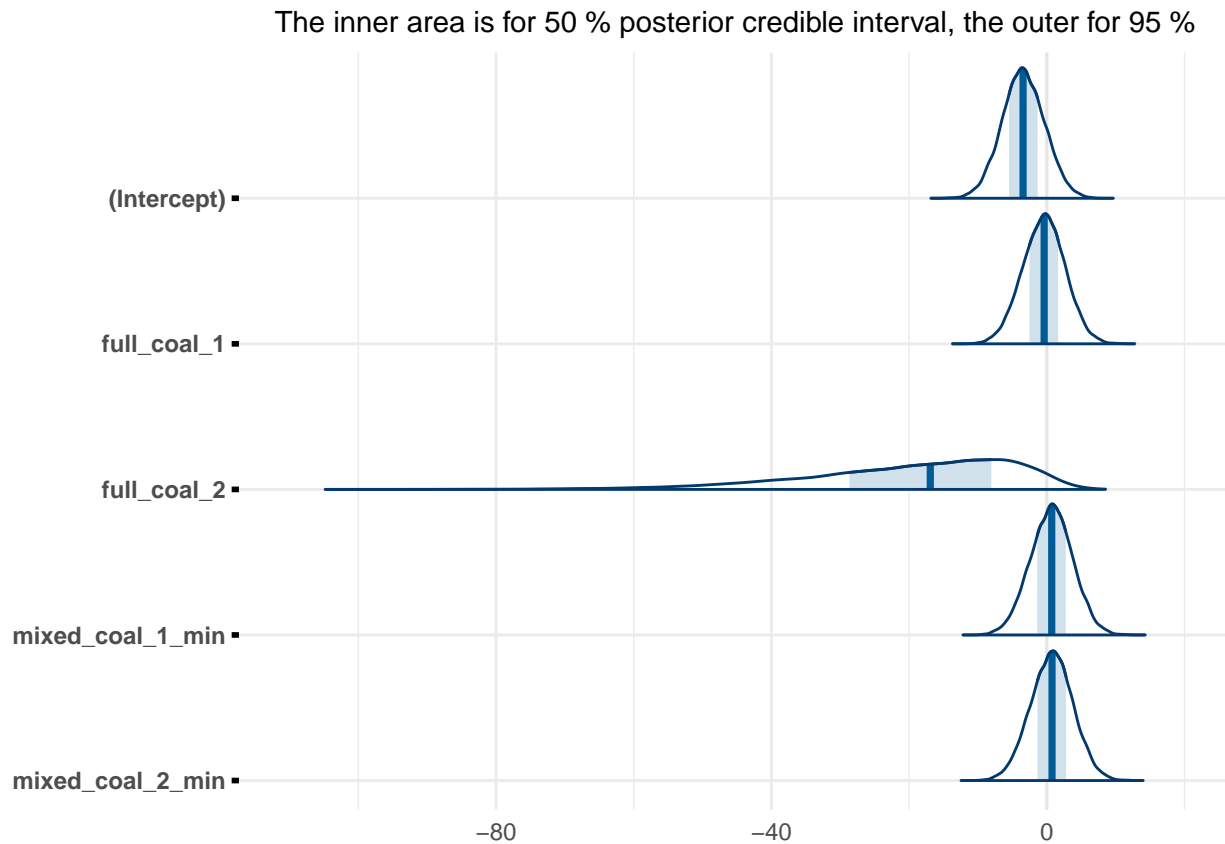


Figure 5: The plot shows 4 posterior credible intervals at 50 % and 95 % for 4 different parameters - the full_coal refer to the parameter of having a panel fully composed of either coalition, the mixed_coal parameters show the parameter of having either the coalition 1 or 2 member as a minority in a 3-member panel.

This simplified model reveals that there does not seem to be any increase in disagreement despite the theoretical predictions drawn from the Czech legal scholarship.

4.1.3 Natural language processing

The last potential usage of the CCC dataset that immediately springs into mind is the application of various natural language processing methods. For example, one could replicate the research

on vagueness of language of the CCC (Sternberg 2019) or measure the readability of the CCC decisions (Crossley, Skalicky, and Dascalu 2019; Fix and Fairbanks 2020) and link those measures to interesting research question. For example, do the better readable CCC decisions get cited by the CCC more than the less readable? Does the CCC use vague language in certain areas/for certain reasons more than for others?

Practically every dataset introduction article contains a disclaimer that the goal of presenting these simplified models is not to draw any inference but rather to show the potential of using the dataset “to develop real-world implications and contribute to public and academic discourse on pressing legal-political issues”. (Weinshall and Epstein 2020, 427) This section has attempted to do exactly that.

4.2 Accessibility

The principle of accessibility demands that “in the creation of high-quality infrastructure is that members of the community should be able to access it with no barriers to entry or use.” (Weinshall and Epstein 2020, 427)

As I have shown in the introduction with specific examples, not all research is reproducible and not all data are made available. That goes against the principle of accessibility. Weinshall and Epstein refer to studies, according to which majority of psychological research data stays under embargo or never gets released at all (Houtkoop et al. 2018) or that only minority of papers published in journals requiring a data availability statement actually do publish their data (Federer et al. 2018). There is no need to prove why such a practice is wrong, why it hinders reproducibility of science.

Following the principle of accessibility, the Czech Constitutional Court Dataset is freely and publicly available in full, with the handbook as well as this article attached to it. **That data are downloadable at** ⁶ The data are published out of my own accord, the publication is not funded by any grant or national science foundation.⁷

4.3 Reliability and Reproducibility

Weinshall and Epstein (2020) define the principles as follows: “Reproducibility means that users and developers alike must understand how to duplicate the data housed in the infrastructure. Reliability is related: it is the extent to which encoded data can be replicated, producing the same value using the same standard for the same subject at the same time, regardless of who or what is doing the replicating” The heart of the matter of reliability and reproducibility is internal consistency of the dataset, not necessarily its external validity.

The data must have been reliably generated. In my case, I did not narrow down the selection of cases - all cases of the CCC that have been made publicly available from its history have been web scraped from its website, including all the available information as well as the texts of the decisions. Reproducibility also demands that anyone with sufficient skill should be able to reproduce the dataset on their own based on the provided information. All the code has been made available on Github, the code is written in a clean manner and is well commented.

Bound to both principles is the issue of coding the variables. To this end, the amount of human

⁶add link later

⁷The lack of funds, I am afraid, also hinders my ability to produce a full-fledged query-able website like that of many other amazing projects

input has been minimized. Vast majority of the information provided has either been directly (or with minimal input) collected from the CCC website or it has been automated to the maximal possible extent (including the full information on the clerks). Only the biographic information on judges has been imputed via human input using the official profiles of justices at the CCC website as well as Wikipedia as sources. The rest is product of the published code.

Therefore, the CCC dataset is highly reliable and easily reproducible, that is at least with enough time to run the whole web scraping process.

4.4 Foundational

The principle that a dataset be foundational requires that it should serve “as a foundation upon which researchers can build by adding content, backdating, updating, or otherwise adapting it to their own needs; it should not be the be-all, end-all.” In other words, the principle promotes a generally usable data over one-off solutions to particular research questions.

The CCC dataset is quite clearly foundational. The dataset includes comprehensive background data on each and every case, bibliographic data on the justices, quite unique data on the clerks, as well as a full text corpus of all the decisions.

The CCC dataset can thus serve researches interested in judicial behavior, in institutional setups, or anyone wanting to leverage natural language processing on large amount of text data. I am currently working on a paper exploring the citations of CCC caselaw to each other to estimate the location of cases in the doctrine space, as well as on paper leveraging machine learning classification algorithm on the text corpus to study dissenting behavior of the CCC justices. Therefore, it has already proven foundational, notwithstanding the research question I have come up with.

5 Conclusion

Building high quality datasets can enable the European empirical legal research to catch up with the US especially. While on the one hand, institutional features make the civil law harder to research empirically, on the other, there is still plenty of room for creativity and methodological rigor.

The present article introduces a dataset on the Czech Constitutional Court while aiming at bridging the gap. To this end, the dataset contains rich information on the background of the cases, background of the justices, their clerk teams as well as the complete text corpus of all decisions until the end of 2023. The dataset adheres to the principles of tidy data as well as to the principles of accessibility, reliability, foundationality, and capacity to address real-world problems. The dataset, in my view, enables research on the decision-making of the judges, examples include their dissenting behavior, strategic acting, or the influence of their clerk teams, on the institutional set up of the CCC, examples include the introduction of rotations or the various ways to expedite the CCC caseload, and lastly on the texts of the decisions themselves, for example studying various linguistic features of the decisions such as readability or vagueness.

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