Gmail

Tom Ross <ncjudge@gmail.com>

FW: quick question about data

4 messages

Thomas W. Ross <tross@volckeralliance.org> Tue, Feb 22, 2022 at 7:37 AM
To: "Thomas W. Ross - Volcker - Volcker Alliance (ncjudge@gmail.com)" <ncjudge@gmail.com>

Thomas W. Ross
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From: Tyler Jarvis <jarvis@math.byu.edu>
Sent: Monday, February 21, 2022 6:14 PM
To: Thomas W. Ross <tross@volckeralliance.org>
Subject: Fwd: quick question about data

---------- Forwarded message ---------
From: **Tyler Jarvis** <jarvis@math.byu.edu>
Date: Sat, Feb 19, 2022 at 7:33 PM
Subject: Re: quick question about data
To: Gregory Herschlag <gjherschlag@gmail.com>

Thank you! I really appreciate your taking time to answer so quickly.

On Sat, Feb 19, 2022 at 7:26 PM Gregory Herschlag <gjherschlag@gmail.com> wrote:

1. Primary in the senate: mcd_on_1

Secondary in the senate mcd_on_0

Primary in the house: primary

Secondary in the house: mcd_on_1

2. Convergence study was the same in the congressional. Only a subset of the full convergence study was shown in the report

On Sat, Feb 19, 2022, 9:04 PM Tyler Jarvis <jarvis@math.byu.edu> wrote:

Thank you so much! This is very helpful.

I have two more quick follow-up questions, if you have time:

1. Jonathan talks about a "primary" and a "secondary" ensemble in his expert report. It sounds like the mcd_on_1 is what he called "primary" and mcd_on_0 is what he called "secondary"? And the third tuned ensemble for the house is the one in the directory called `primary`?

2. I couldn't see anything in Jonathan's expert report about convergence of the congressional ensemble--there's a section header, but I see no text or plots. Can you tell me anything about the convergence of that ensemble? I assume you also used parallel tempering with an independent sample reservoir. Were results similar to the convergence of the legislative ensemble?

Best,

Tyler

On Sat, Feb 19, 2022 at 6:47 PM Gregory Herschlag <gjherschlag@gmail.com> wrote:

Hi Tyler,

Nice to hear from you. To answer your question, the mcd_on_0 and mcd_on_1 ensembles refer to whether or not municipalities were considered when drawing the ensembles. These ensembles were developed before the now-overturned maps came out. We found that the mcd_on_1 ensemble had similar municipal splitting to the senate map, but the house plan split municipalities more than our mcd_on_1 ensemble but less than our mcd_on_0 ensemble, so we tuned a third ensemble here to reflect the amount of municipal splitting seen in the house map.

Hope this helps! Let me know if not or if you have other questions,

Greg

On Sat, Feb 19, 2022 at 8:13 PM Tyler Jarvis <jarvis@math.byu.edu> wrote:

> Dear Greg,
>
> I am sorry to bother you on a long weekend, but I have been asked to help evaluate the remedial maps for the North Carolina special masters on a very short deadline.
>
> Because there is no time for my team to generate large ensembles that meet the clustering and other criteria specific to North Carolina, I was directed by the masters to your ensemble data and to Jonathan's expert report.
>
> I would be extremely grateful if you could help clarify one thing about the data.
>
> From Jonathan's report I understand that you ran both a Primary and a Secondary ensemble with different properties, especially in regard to splitting municipalities. Sam Wang tells me that Jonathan thinks the court didn't really valorize the secondary ensemble, so it might make sense to focus on the primary ensemble.
>
> I assume that both these ensembles are in the directory `observables/electionResults/`, but I am not sure which subfolder corresponds to which ensemble. Specifically, in the senate you have just two directories: `mcd_on_0` and mcd_on_1, whereas in the house you have three directories: `mcd_on_0`, mcd_on_1, and `primary`, so it is not entirely clear which is primary and secondary of these three.
>
> Thanks again for any help you can provide.
>
> Best,
>
> Tyler

Thomas W. Ross <tross@volckeralliance.org> Tue, Feb 22, 2022 at 7:38 AM
To: "Thomas W. Ross - Volcker - Volcker Alliance (ncjudge@gmail.com)" <ncjudge@gmail.com>

[Quoted text hidden]

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Tom Ross <ncjudge@gmail.com>

FW: Data for expert report on NC maps

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From: Tyler Jarvis <jarvis@math.byu.edu>
Sent: Monday, February 21, 2022 6:10 PM
To: Thomas W. Ross <tross@volckeralliance.org>
Subject: Fwd: Data for expert report on NC maps

---------- Forwarded message ---------
From: **Tyler Jarvis** <jarvis@math.byu.edu>
Date: Sun, Feb 20, 2022 at 10:02 PM
Subject: Re: Data for expert report on NC maps
To: Jonathan Mattingly <jonm@math.duke.edu>

Understood. I apologize for the error.

On Sun, Feb 20, 2022 at 7:48 AM Jonathan Mattingly <jonm@math.duke.edu> wrote:

> Der Tyler,
>
> Given the court order, it is not clear that our ensemble is calibrated to the court's order.
> That is what I said to Sam in advance of knowing he was a spacial master (If I was picking one I would pick the No MCD as the court did not talk a lot about municipalities, more bout symmetry. That is the additional thing I said to Sam. but neither are calibrated to partisan symmetry).

However, according to the court order we are not supposed to have contact with the special masters team as we are working with two of the plaintiff counsels. If the special master wants to clarify things via the court, but my understanding is was are support to keep a distance from the special master's work.

sorry. Please let us know if the directions we have gotten from counsel are off base.
Jonathan

> On Feb 19, 2022, at 4:46 PM, Tyler Jarvis <jarvis@math.byu.edu> wrote:
>
> Dear Jonathan,
>
> I am sorry to bother you on a weekend, but I have been asked to help evaluate the remedial maps for the North Carolina special masters on a very short deadline.
>
> Because there is not time for my team to general large ensembles that meet the clustering and other criteria specific to North Carolina, I was directed by the masters to your ensemble data and to your expert report.
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> I would be grateful if you could help clarify a few things about the data.
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>
> I assume that both these ensembles are in the directory observables/electionResults/, but I am not sure which subfolder corresponds to which ensemble. Specifically, in the senate you have just two directories: mcd_on_0 and mcd_on_1, whereas in the house you have three directories: mcd_on_0, mcd_on_1, and primary, so it is not entirely clear which is primary and secondary of these three.
>
> My other question is motivated by the fact that I was explicitly asked to include efficiency gap in my analysis. It looks like your election results for each race only have percentage of democrat votes, but no information about voter turnout. Is that right? Is there somewhere that the total number of votes is recorded for district of each plan for each race? If not, I guess I'll just make the obvious estimate of EG with the assumption of equal turnout in all districts. The EG is already not a great metric, but I suspect this would make it even worse.
>
> Thanks again for any help you can provide.
>
> Best,
> Tyler
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>
>

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From: Tyler Jarvis <jarvis@math.byu.edu>
Sent: Monday, February 21, 2022 6:09 PM
To: Thomas W. Ross <tross@volckeralliance.org>
Subject: Fwd: Data for expert report on NC maps

---------- Forwarded message ---------
From: **Jonathan Mattingly** <jonm@math.duke.edu>
Date: Sun, Feb 20, 2022 at 7:50 AM
Subject: Re: Data for expert report on NC maps
To: Tyler Jarvis <jarvis@math.byu.edu>

ps. I also understand you reached out to greg. He should not have engaged either. He miss understood our directive. He has now had that clarified.

glad to see you are part of this. Sorry it seems I can't engage.

[Quoted text hidden]

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Tom Ross <ncjudge@gmail.com>

FW: Histogram data

1 message

Thomas W. Ross <tross@volckeralliance.org> Tue, Feb 22, 2022 at 7:39 AM
To: "Thomas W. Ross - Volcker - Volcker Alliance (ncjudge@gmail.com)" <ncjudge@gmail.com>

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From: Samuel S. Wang <sswang@princeton.edu>
Sent: Monday, February 21, 2022 6:05 PM
To: Thomas W. Ross <tross@volckeralliance.org>
Subject: Fwd: Histogram data

My entire exchange with Jonathan Mattingly is below.

Sam Wang

Begin forwarded message:

> **From:** Jonathan Mattingly <jonm@math.duke.edu>
> **Date:** February 20, 2022 at 9:59:32 AM EST
> **Subject: Re: Histogram data**
>
> Sam,
>
> I did not know you were working with the special master. I have been told that the court order forbids me and greg from engaging with the special maters team. It makes sense as you are to be at arms-length znd we are associated with the plaintiffs.
>
> I will clarify one error I made in my first email. I meant to point you to the "No Municipality"ensemble not the incumbency plots. This is the primary for the house and the secondary for the Senate.

If we have been miss informed about interacting with the special master, please let us know. This is what counsel has told us.

Jonathan

On Feb 19, 2022, at 7:10 AM, Samuel S. Wang <sswang@princeton.edu> wrote:

Hi, Jonathan.

Thinking about one of your points, I will mostly focus on scalar statistical measures such as mean-median difference and so on. There is plenty to think about there. The special masters have also contacted Tyler Jarvis to work on ensemble analysis, which is a more natural fit.

My group has generated its own histograms. We have our own ensembles, based on 2020 election data. It is a small fraction of what you and Herschlag have done, but maybe it will do for my purposes.

I am going through your Github today. If you can point me toward a file in there that corresponds to the histograms in Figures 5.1.1 and 5.2.1, that would be helpful. It would also orient me inside your Github!

Best,

Sam

From: Jonathan Mattingly <jonm@math.duke.edu>

Sent: Friday, February 18, 2022 1:57 PM

To: Samuel S. Wang <sswang@princeton.edu>

Subject: Re: Histogram data

Hi sam,

Which histograms in particular ?Do you mean like page 19 ? there are a lot of histograms.

Notice there are two different ensembles for the house and senate. One which is more strict about preserving municipalities. The court order don't seem to valorize that one as much.

In general it is not clear that comparing the ensembles is as relevant given that the court asked about partisan symmetry and other measure which the ensemble should be judged. A new ensemble could/should be generated or the old one could be filtered (maybe)

Here is most of our data is here:

https://git.math.duke.edu/gitlab/gjh/ncanalysis2020

Jonathan

From: "Samuel S. Wang" <sswang@princeton.edu>

Date: Friday, February 18, 2022 at 1:01 PM

To: Jonathan Mattingly <jonm@math.duke.edu>

Subject: Histogram data

Hi, Jonathan. How are you?

I have been asked to help evaluate the remedial maps produced by the North Carolina General Assembly. I wonder if you are willing to share the outputs of the ensemble analysis that went into your expert report. Specifically, I seek the numbers that went into the histograms. Is that possible?

I have read your report (and the other reports) with interest, and am studying up to make sure I do not miss anything. There is a lot of expert testimony here, which is good.

Best,

Sam

Prof. Samuel S.-H. Wang

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Director, Electoral Innovation Lab

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