

Press release (Oct 23, 2024): FOR IMMEDIATE RELEASE

Groundbreaking Study Using Stylometric Analysis of the US Constitution Confirms James Madison as “Father of the Constitution”

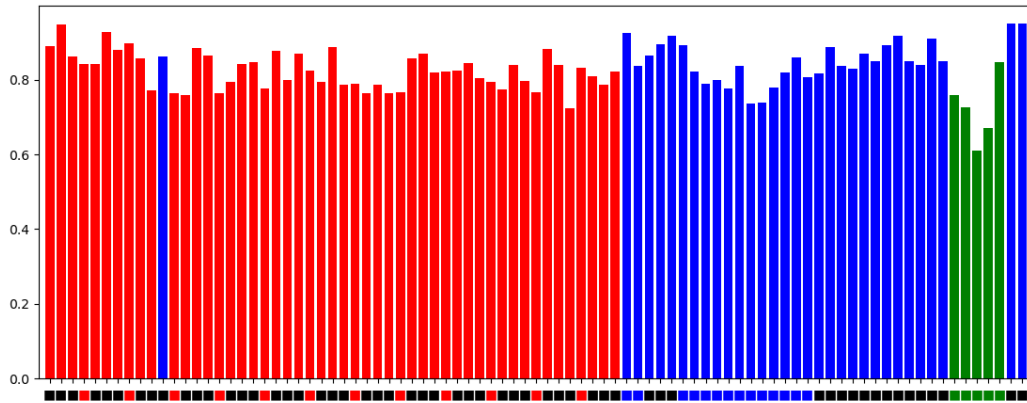
OrphAnalytics, Vevey, Switzerland –

Researchers from OrphAnalytics, a Swiss company, have recently completed a groundbreaking stylometric analysis, which is a statistical analysis of linguistic style, of the US Constitution, revealing the significant influence of James Madison in drafting. The US Constitution is a meticulously crafted document establishing a system of government aimed at preventing tyranny. By comparing the Constitution to the 85 Federalist Papers, published under the pseudonym *Publius* and written by Alexander Hamilton, John Jay, and James Madison, researchers confirmed Madison’s crucial role.

The barycentric stylometry method used in this analysis was previously employed by OrphAnalytics to attribute the authorship of QAnon texts and has been independently validated by the results of another statistical team. Using this method, they demonstrated that the 15 Federalist Papers, whose authorship (Hamilton vs. Madison) was debated by historians, all correspond to Madison’s linguistic style. These results align with the seminal Bayesian but challenged statistical attribution published in 1963 on the Federalist Papers by Mosteller and Wallace.

In this new contribution, the linguistic styles in the *Federalist Papers* are compared to those in the US Constitution, which includes the Bill of Rights. The results are clear: only Madison’s linguistic style matches the texts of these fundamental laws, reinforcing historians’ claims that Madison is the “Father of the Constitution.”

Madison's efforts in drafting the fundamental laws were crucial in establishing a system of checks and balances specifically designed to prevent tyranny by separating the executive, legislative, and judicial powers. This analysis not only highlights Madison's influence but also shows how a fundamental law reflects the style of its essential contributors, like Madison within the US Constitution.



Attribution of the chapters according to the list of:

-Madison / H / M / M / M / M / J / Q /
 -Hamilton / H / M / C / M / H / J / Q /

H: Hamilton in red, M: Madison in blue, J: Jay in green, C: in purple, cooperation between Hamilton and Madison?

Barycentric rolling stylometry of the Federalist Papers compared to the US Constitution and the Bill of Rights:

Each bar of the histogram represents a text. The texts are grouped by author according to the author attribution of the 1818 Gideon edition and according to their order of appearance in this edition. First, 51 articles attributed to Hamilton, then 29 to Madison, followed by 5 attributed to Jay, and finally the two questioned texts (Q) the US Constitution and then the concatenate of the first 10 articles of the Bill of Rights.

A colored square (H, red; M, blue; J, green) on the horizontal axis indicates the 31 texts common to both lists used to calibrate the clusters of the three styles. A black square indicates the texts used either to evaluate the Machine Learning with the 54 texts common to both lists not used for the style calibration: 39 of Hamilton's articles and 15 of Madison's articles or the questioned texts (the Constitution and the Bill of Rights).

The height of each text column corresponds to the shortest normalized distance in the trigram space between this text to the three barycenters (H, J, M). The color of each text bar is the color of the closest style cluster to the text.

The Figure reveals that calibrated by 31 texts of three authors common to both lists, Madison's list almost perfectly corresponds to the results of this barycentric rolling stylometry of the challenged. An efficiency rate is estimated: 98.1% The styles of the texts of the Federal Constitution and the Bill of Rights are compared to the three styles of the contributors of the Federalist Papers is of Madison's according to this barycentric rolling stylometry.

For further information, read the legend of the figure of the White Paper.

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