

Figure 1: Time line showing evolution of water resources articles published per year.

Contents

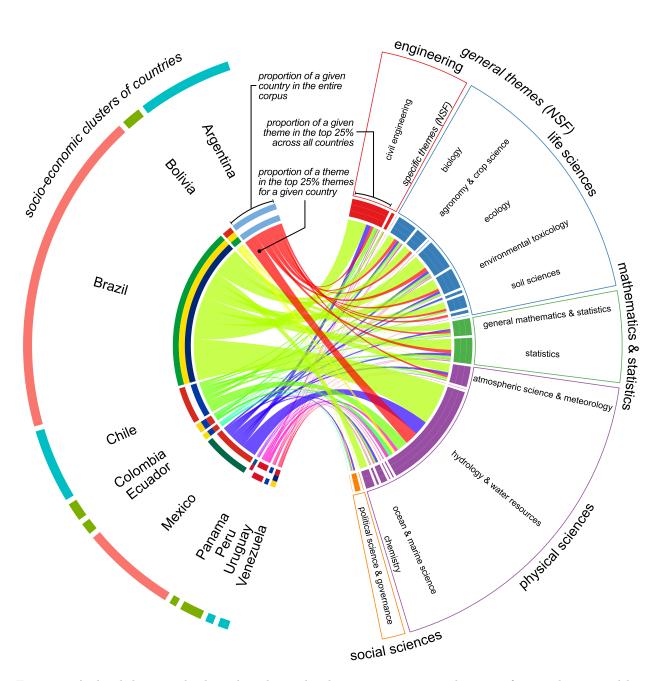


Figure 2: A chord diagram displays the relationship between countries and topics of research, grouped by categories of the National Science Foundation.

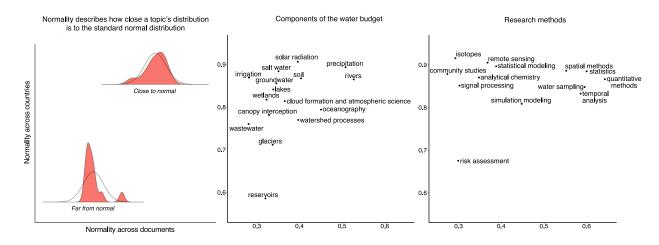


Figure 3: A quantification of normality identifies bright and blind spots in research in Latin America that is focused on components of the water budget and uses specific methodologies.

Topic model coverage hydrology & water resources -13 civil engineering 6 3 atmospheric science/meteorology 5 2 biology 3 3 agronomy & crop science 3 3 geophysics & seismology 2 2 environmental health 2 2 chemistry 2 wildlife biology soil sciences, other political science & government 2 ocean/marine science 2 fishing & fisheries sciences/management-1 ecology 2 3 statistics 2 3 microbiology 2 geomorphology 1 2 geology 2 1 NSF specific categories environmental toxicology 2 2 environmental science 2 animal science-2 sociology 1 3 plant physiology 1 geochemistry 2 botany/plant biology 1 agricultural economics engineering 3 petroleum engineering 2 atmospheric chemistry & climatology 2 toxicology organic chemistry oceanography, chemical and physicalmineralogy/petrology mathematics/statistics, general marine biology & biological oceanography industrial & manufacturing engineering geomorphology & glacial geology geography · genetics/genomics, human & animal forest science & biology food science 1 analytical chemistry 1 English Spanish Portuguese Topic model for each language

Figure 4: Topic model performance