Visualizing Fresno State’s Research Output

Global collaborations
Fresno State researchers often collaborate with their colleagues here and at other institutions across the US and around the world. The map at right shows the locations of collaborators for 2014–18. An interactive map is available at http://arcg.is/1LG4WL

The network graph below shows the top countries where those collaborators are located, with the lines weighted according to the number of articles.

Data and software
The data for these visualizations comes from Web of Science, an index of scholarly publications and citations which is available to the Fresno State community through the Madden Library.

In most of these visualizations, data for the Atlas Collaboration has been omitted. On the world map, it is represented as a single collaborator at its headquarters in Meyrin, Switzerland. This group of thousands of researchers, including Fresno State’s Yongsheng Gao, generates so many publications that including all of them would obscure other patterns in the data.

The world map was created with ArcGIS and Google Maps API, the network graph was created with VOSviewer, and the charts were created in Google Sheets.

Open Access
As the number of publications by Fresno State researchers has increased, both the number and the proportion of those articles that are Open Access have increased as well.

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