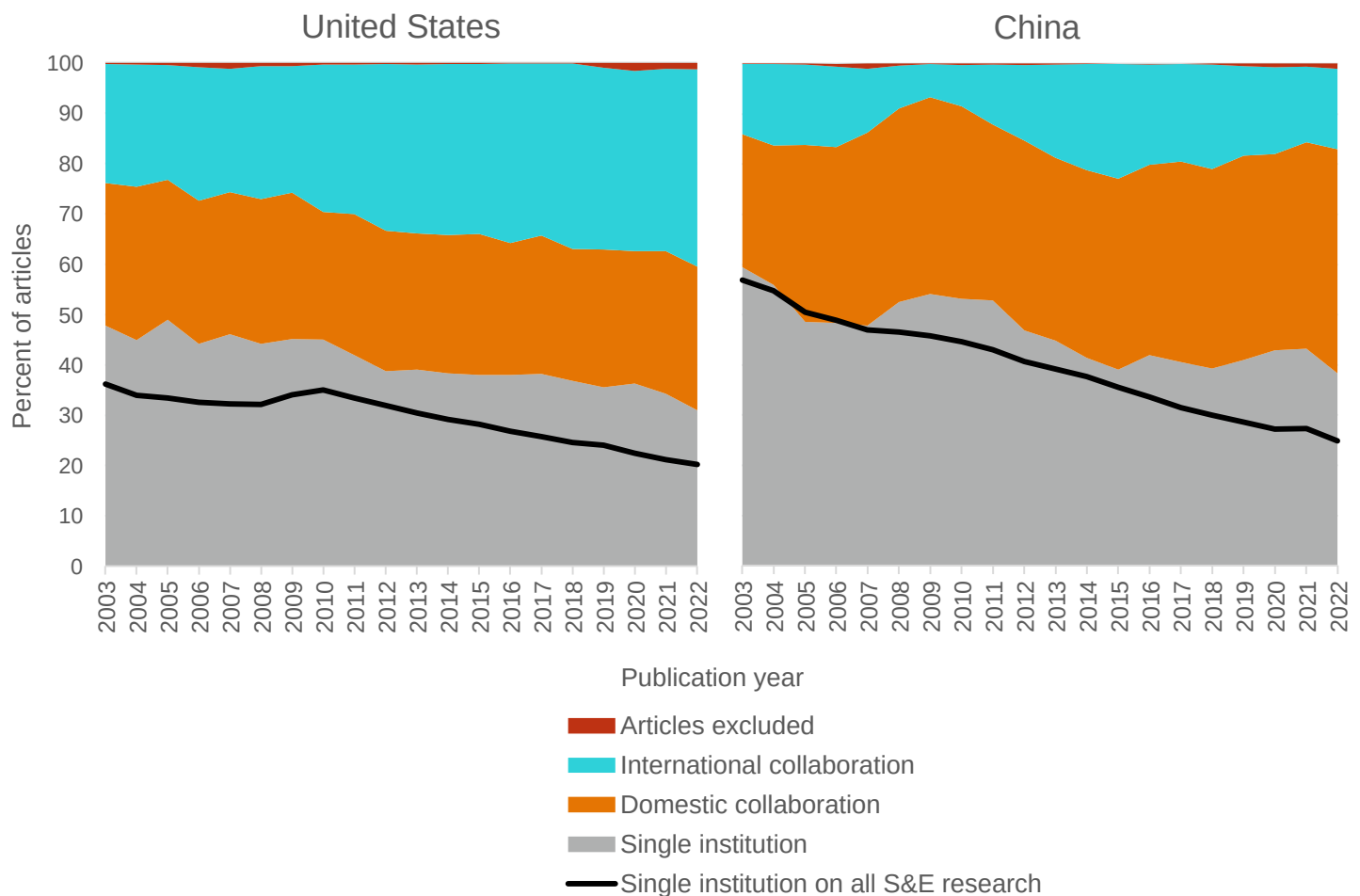**Figure 4**

Collaborative and single institution articles on AI and single institution articles on all S&E research in the United States and China: 2003–22

AI = artificial intelligence; S&E = science and engineering.

Note(s):
Article counts refer to publications from a selection of conference proceedings and peer-reviewed journals in S&E fields from Scopus. The subset of AI articles was determined by All Science Journal Classification subject matter classification, supplemented by an algorithm that used a series of article characteristics to determine the field of papers published in multidisciplinary journals. Articles are assigned to a country, or economy on the basis of the institutional addresses of the authors listed in the article. Articles are credited on a whole count basis (i.e., for articles produced by authors from different countries, each country is credited for one article). The percentages refer to the proportion of AI articles to feature collaboration or to the proportion of general articles across all fields to feature collaboration. Articles were excluded when one or more coauthored publications had incomplete address information in the Scopus database; therefore, they cannot be reliably identified as international or domestic collaborations. Data for all regions, countries, and economies are available in supplemental table SPBS-99 and supplemental table SPBS-33 in Publications Output: U.S. Trends and International Comparisons (https://ncses.nsf.gov/pubs/nsb202333/table/SPBS-99 and https://ncses.nsf.gov/pubs/nsb202333/table/SPBS-33).

Source(s):
National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed April 2023.