

# The Interdisciplinarity of Scientific Research Data

Hyoungjoo Park

University of Wisconsin – Milwaukee, Milwaukee, Wisconsin, United States of America

park32@uwm.edu

## ABSTRACT

Technical advances have lowered some barriers to data sharing and reuse, but it is a socio-technical phenomenon and the impact of the ongoing evolution in scholarly communication practices has yet to be actively quantified. With the open science movement, research data citation for data sharing and reuse is becoming more common than before. Furthermore, there is need for a deeper and more nuanced understanding of the extent of interdisciplinarity of data citation when research data is shared and reused. The interdisciplinary collaboration is closely related to data reuse across disciplines because disciplines influence one another. Collaboration is one way and citation is another. Citation is commonly considered to be closely related to scientific impact because citation measures formal scholarly impact. This study examined the interdisciplinarity of scientific research data, especially how scientific research data are reused in bibliographies. The researcher measured the variety, balance and diversity to examine to what extent scientific research data is reused in other disciplines. This study found that the interdisciplinarity of scientific research data is existent although the prevalence of interdisciplinarity is diverse depending on scientific disciplines. The findings presented here contribute to the study of interdisciplinarity of scientific research data for data sharing and reuse.

## ALISE RESEARCH TAXONOMY TOPICS

data curation; informetrics; scholarly communications

## AUTHOR KEYWORDS

research data; data citation; data sharing; data reuse