Title

Data sharing and reuse in interdisciplinary scientific collaborations: Challenges of heterogeneous practice

Author

Borgman, Christine L

Publication Date

2018-05-04

Data sharing and reuse in interdisciplinary scientific collaborations: Challenges of heterogeneous practice

Christine L. Borgman
Distinguished Professor & Presidential Chair in Information Studies
Director, Center for Knowledge Infrastructures
University of California, Los Angeles
Christine.Borgman@ucla.edu
http://www.christineborgman.info

Drawing on 20 years of studying data practices in the physical sciences, life sciences, medicine, engineering, and technology, this talk will address the question of "How is 'interdisciplinary' done?" by presenting several case examples. One scenario from the Center for Embedded Networked Sensing will illustrate how one research team's evidentiary signal may be noise to another team with whom they are collaborating. A scenario from the Center for Dark Energy Biosphere Informatics will illustrate how methods decisions made early in the data collection process determine how and whether other disciplines can make use of physical specimens later. The third scenario, drawn from astronomy, will demonstrate how data taken from a single instrument can diverge in form and evidentiary value when processed by scientists in multiple sub-disciplines of the field. While data sharing and reuse are concerns in all of these fields, concepts of data "use" differ widely.

Christine L. Borgman, Distinguished Professor and Presidential Chair in Information Studies at UCLA, is the author of more than 250 publications in information studies, computer science, and communication. These include three books from MIT Press: *Big Data, Little Data, No Data: Scholarship in the Networked World* (2015), winner of the 2015 American Publishers Award for Professional and Scholarly Excellence (PROSE Award) in Computing and Information Sciences; *Scholarship in the Digital Age: Information, Infrastructure, and the Internet* (2007); and *From Gutenberg to the Global Information Infrastructure: Access to Information in a Networked World* (2000). The latter two books won the Best Information Science Book of the Year award from the Association for Information Science and Technology (ASIST). She is a Fellow of the American Association for the Advancement of Science and of the Association for Computing Machinery. At UCLA, she directs the Center for Knowledge Infrastructures with funding from the Alfred P. Sloan Foundation and other sources.