

Barriers in sharing research data

Houtkoop2018 (survey)	LeVeques2013 (Opinion piece)	Barnes2010 (Opinion piece)	McGrath2018 (Opinion piece)
Domain: Psychology	Applied mathematics	Climate science	Medicine
Research data in general	Small pieces of software code	Software	Data (qualitative)
Legal			
- My Institutional Review Board does not allow me to share my data (1)			Fear of reprimands
- The consent form states that data will not be shared (2)			
- Anonymity can not be guaranteed if the data is shared (3)			Difficulties of anonymizing participants
- Stakeholder (e.g. company or institution) interests prohibit data from being shared (4)			
- My funder/adviser/boss does not allow me to share my data (5)	Forbidden to publish proprietary code		
Non-fear-related			
- I do not wish to answer questions about my data coming from secondary researchers who aren't experts in the field. (1)			
- Preparing data to make it suitable for online sharing is too time consuming for me. (2)	Low quality of the code	Too much work to polish the code	
- It is unfair for other researchers to profit from my hard work; they should collect their own data. (3)			
- My data set is too big to share. (4)			
- My data set is too complex to share. (5)			
- My data is not important enough to share. (6)			
- I am afraid that I will not get proper recognition for sharing my data, in the form of a footnote. (7)			
- I am afraid that I will not get proper recognition for sharing my data, in the form of a citation. (8)			
- I am afraid that I will not get proper recognition for sharing my data, in the form of co-authorship. (9)			
- I have never learned to share my research data online. (10)			
- I have never thought about sharing my research data online. (11)			
- Online sharing of research data is not a common practice in my field. (12)		Not a common practice	
- I plan to commercialize my data or technology. (13)			
- I prefer to share my data sets upon request. (14)			
- There is no suitable place to share my research data, e.g. the repository does not have enough capacity. (15)			
Fear-related (self)			
- I feel that by sharing my data I lose control over my intellectual property. (1)			
- I am afraid that other researchers will perform alternative analyses on my data and argue that my conclusions are invalid. (2)			
- I am afraid that other researchers will discover errors in my data. (3)			
- I am afraid of being scooped: that other researchers may publish results from my data set before I can. (4)			
- I am afraid that a secondary user will misinterpret my data. (5)			
- I am afraid that a secondary user will use my data for unintended purposes. (6)			
Fears-related (other researchers)			
- I think that other researchers are afraid that by sharing their data, they lose control over their intellectual property. (9)	Intellectual property	Intellectual property	
- I think that other researchers are afraid that alternative analyses will be performed on their data and that it will be argued that their conclusions are invalid. (2)			
- I think that other researchers are afraid that errors will be discovered in their data. (3)			
- I think that other researchers are afraid of being scooped; that others may publish results from their data set before they are able to. (4)			
- I think that other researchers are afraid a secondary user will misinterpret their data. (5)			
- I think that other researchers are afraid that a secondary user will use their data for unintended purposes. (6)			
	The code runs today but may not run tomorrow		
			People will not willingly offer their information if they know the data will be shared
			The data has specific and idiosyncratic value in the study context