## Pre-Workshop Survey

For the 2018-2019 Data Science Workshops at Montana State University

You are being asked to participate in a research study to understand what methods are the most effective in teaching computational skills in R. Results from this study may provide a better understanding of the computational thinking and abilities of undergraduate and graduate students.

If you agree to participate in this study you will be asked to complete a preworkshop survey, detailing your demographic information and computational background and a post-workshop assessment of your understanding of the computational techniques covered. Your survey and assessment will be paired and any information that might identify you personally (including your name) will be removed. Only the workshop administrator will have access to your identity.

Your participation in this research is voluntary. You are free to stop participating in the research at any time, or to decline to answer any specific questions. Your participation in this research study is confidential. There are no foreseen risks to participation in this research study.

If you have any questions regarding this research project you can contact me at allisontheobold@montana.edu.

1.	asked to complete all of the questions below.
	□ Yes
	□ No
2.	Please indicate your relevant departmental affiliation. Check all that apply.
	☐ Agricultural Economics
	☐ Agricultural Education
	☐ Animal & Range Sciences
	$\Box$ Land Resources & Environmental Sciences
	☐ Microbiology & Immunology
	□ Plant Sciences & Plant Pathology

		Architecture
		Art
		Film & Photography
		Music
		Education
		Health & Human Development
		Center for Biofilm Engineering
		Chemical & Biological Engineering
		Civil Engineering
		Computer Science
		Electrical & Computer Engineering
		Mechanical & Industrial Engineering
		Nursing
		Agricultural Economics
		Chemistry & Biochemistry
		Earth Sciences
		Ecology
		Organismal Biology (Botany, Zoology, etc.)
		Planetary Sciences (Geology, Climatology, Oceanography, etc.)
		English
		History & Philosophy
		Mathematical Sciences
		Native American Studies
		Physics
		Political Science
		Psychology
		Sociology and Anthropology
		Economics or Business
		Space Sciences
		Other (please specify)
3.	You	r current occupation at the university
		Seeking Bachelors degree
		Seeking Master's degree
		Seeking Doctorate degree

	□ Completing a Post-Doc
	☐ Faculty member
	☐ Staff Member
	$\Box$ Other (please specify)
4.	How many computer science courses (undergrad or grad) have you taken?
5.	What are your previous computer science experiences? List course names. $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
6.	What programming languages do you have experience with? Check all that apply.
	□ Python
	$\square$ R
	☐ Java or Javascript
	$\Box$ C or C++
	□ Fortran
	☐ MatLab or Mathematica
	$\square$ SQL
	$\Box$ Other (please specify)
	□ None
	□ What is a programming language?
7.	What are your previous statistics experiences? List course names.
8.	What other courses have you taken that require computer programming (e.g. R, GIS, SPSS, STATA, SAS, MatLab, Mathematica, MARK, etc.)? List course names.
9.	What operating system is on the computer you are bringing to the workshop?
	$\square$ OSX
	□ Windows
	☐ Linux or Ubuntu
	$\Box$ What is an operating system?
10.	Have you participated in independent or collaborative research outside the classroom?
	□ Yes
	□ No

11.	If so, how much? Check all that apply.
	<ul> <li>□ Little to No</li> <li>□ A few projects</li> <li>□ I'm almost done with my thesis</li> <li>□ I completed a thesis</li> </ul>
12.	Do you have experience collecting your own data? Check all that apply.
	<ul> <li>□ Yes, I've helped others collect data.</li> <li>□ Yes, I've collected my own data,</li> <li>□ No</li> </ul>
13.	If you have collected your own data, how did you choose to store it? Check all that apply.
	<ul> <li>□ Microsoft Excel</li> <li>□ Microsoft Access</li> <li>□ Microsoft Word</li> <li>□ On paper</li> <li>□ Text file</li> <li>□ Other (please specify)</li> </ul>
14.	What is your most important reason for attending this workshop? Check all that apply.
	<ul> <li>□ Research assistance</li> <li>□ Coursework assistance</li> <li>□ Preparation for graduate school</li> <li>□ Adviser recommended</li> <li>□ Department/Professor recommended</li> <li>□ Network with other workshop attendees</li> <li>□ Refresh or update skills</li> <li>□ Other (please specify)</li> </ul>
15.	What resources have you used while learning to program in R? Check all that apply.
	<ul> <li>□ Peers</li> <li>□ Lab Mates</li> <li>□ Adviser</li> <li>□ Course Materials</li> <li>□ Internet Resources</li> <li>□ Other (please specify)</li> </ul>

16. In a few words, what do you hope to learn from this workshop?