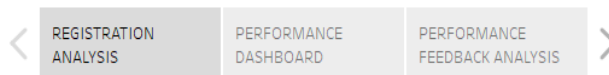


GIS AND DATA SERVICES WORKSHOP ANALYSIS

Milan Budhathoki, Abhimanyu Hans, Sakar Phuyal and Mohak Verma

GIS and Data Service Center, University of Maryland libraries

GIS AND DATA SERVICE CENTER WORKSHOP ANALYSIS



Mohak Verma, Sakar Phuyal, Abhimanyu Hans, Milan Budhathoki

This study aims to understand the demand for GIS and data science workshops at UMD Libraries by analyzing registration and feedback data from the previous two semesters. The analysis focuses on the following key points:

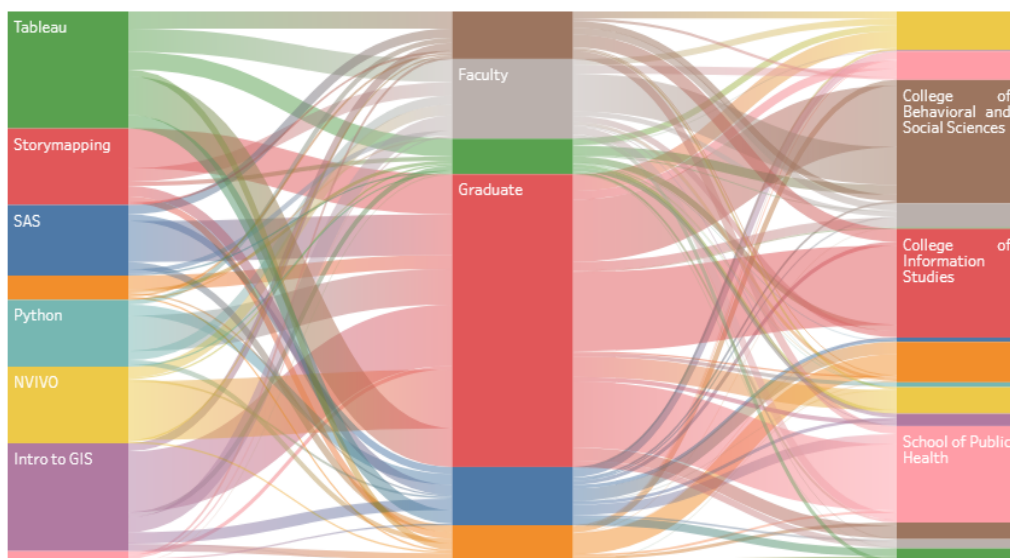
Workshop offerings: We analyze workshops such as Tableau, NVivo, and SAS.

Participant demographics: Data is used to understand attendees' education and affiliations.

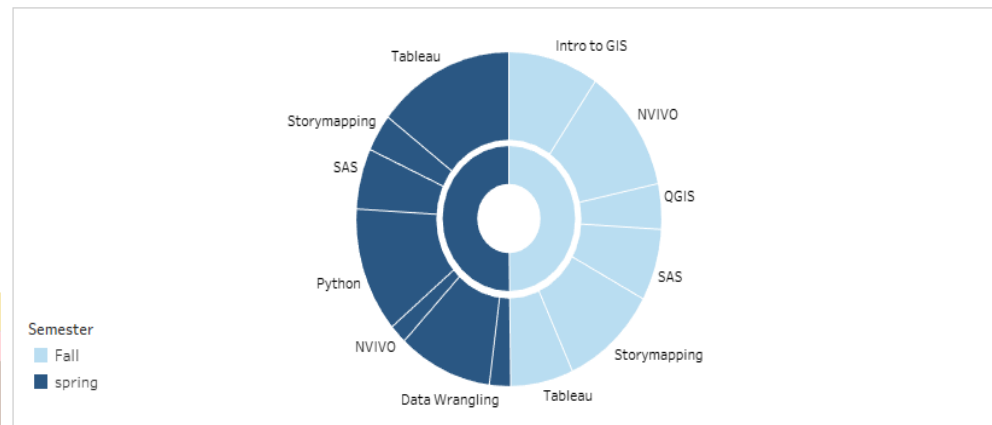
Dashboard development: A dashboard presents findings, informing future workshop improvements.

Data-driven insights: The study underscores data application for library service design and implementation, using feedback to evaluate workshop engagement and effectiveness.

Workshop Distribution by UMD status and School



Workshop Distribution by semester



Total Number of Registration : 1025
Total Number of Registration in Fall 2022 : 510
Total Number of Registration in Spring 2023 : 515

College, School, or Affiliation	
College of Behavioral and Social Sciences	229
College of Information Studies	202
School of Public Health	179
Other	75
A James Clark School of Engineering	72
College of Agriculture and Natural Resources	53
Robert H. Smith School of Business	49
College of Computer, Mathematical and Natural S..	45
School of Public Policy	31
University Libraries	28
School of Architecture, Planning, and Preservation	23
The Graduate School	17
Philip Merrill College of Journalism	9
Office of UnderGradStudies	8

UMD Status	
Graduate	543
Faculty	148
Staff	108
UnderGrad	88
Public	70
Alumni	66

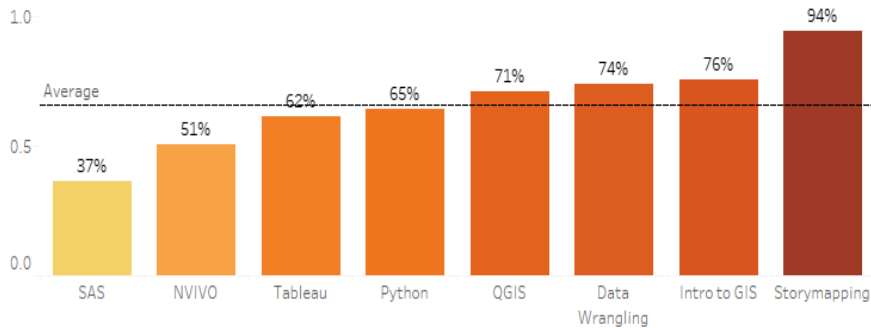
GIS AND DATA SERVICE CENTER WORKSHOP ANALYSIS

WORKSHOP PERFORMANCE DASHBOARD

Participation Index

The Participation Index is a measure that highlights the level of attendance relative to the number of registrations, providing insights into workshop engagement.

Significance of PI: A higher Participation Index suggests stronger participant engagement, while a lower index may indicate areas for improvement in workshop promotion or scheduling.



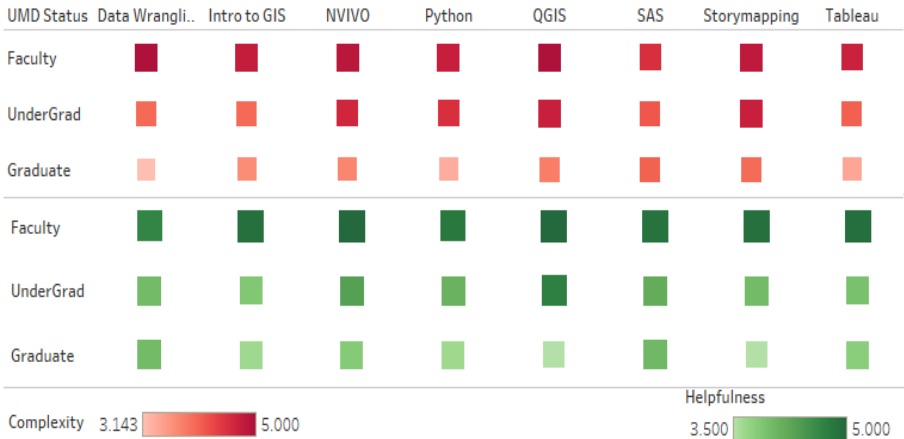
Correlation Confidence Index

Antecedent	Consequents	
QGIS	Storymapping	76%
Python	Intro to GIS	51%
SAS	Tableau	40%
Intro to GIS	Python	27%
Storymapping	QGIS	15%
Tableau	SAS	10%

The Correlation Confidence Index (CCI) evaluates the likelihood of workshop attendees' return by analyzing registration trends and participant traits through advanced data mining.

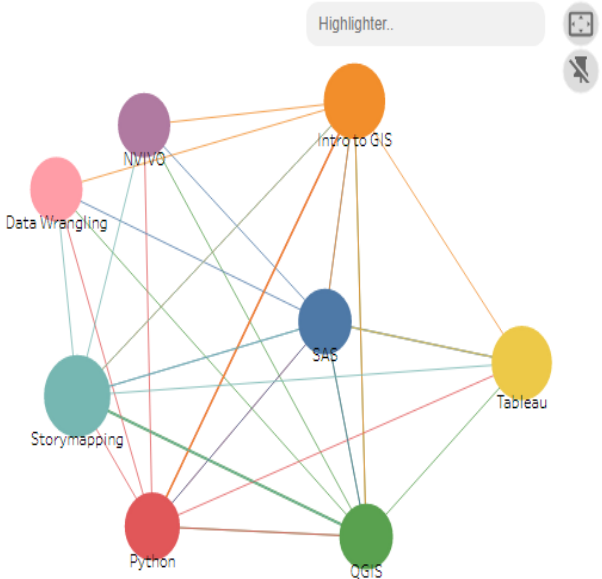
Significance of CCI : The significance of the CCI lies in its ability to predict participant behavior and inform strategic decision-making.

Complexity and Helpfulness Index



It is a parameter to assess the usefulness and complexity of our workshops, specifically focusing on three UMD categories: Faculty, Undergrad, and Grad students.

Significance of Complexity and Helpfulness : The performance matrix evaluates workshop complexity and usefulness for different UMD status categories, ensuring tailored learning experiences in GIS and data services.



GIS AND DATA SERVICE CENTER WORKSHOP ANALYSIS



REGISTRATION
ANALYSIS

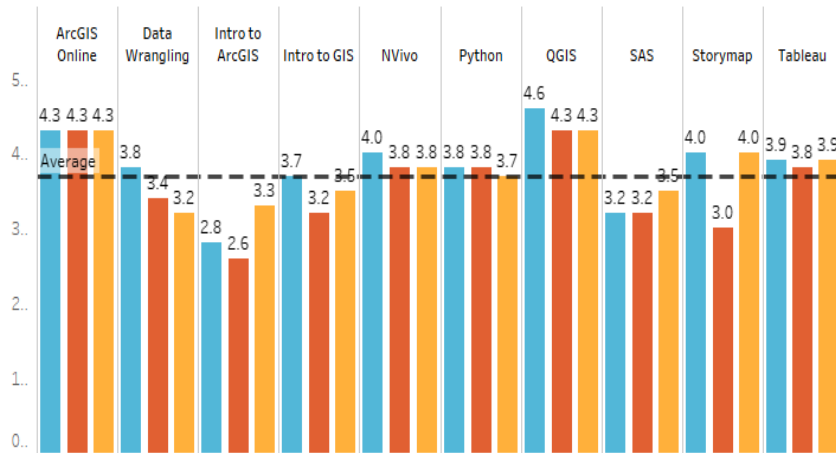
PERFORMANCE
DASHBOARD

PERFORMANCE
FEEDBACK ANALYSIS



WORKSHOP PERFORMANCE FEEDBACK ANALYSIS

Performance Indices

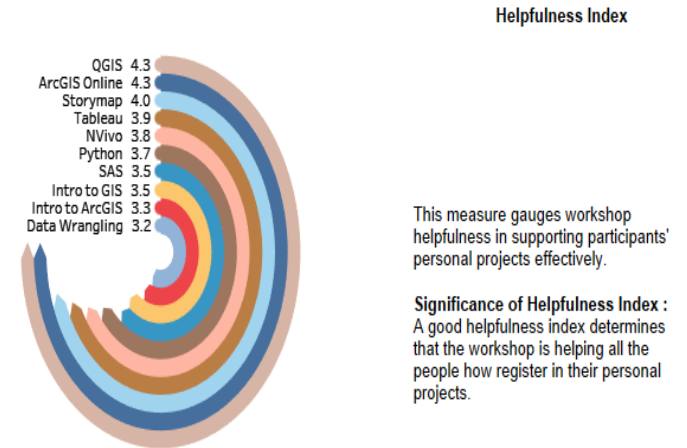


Performance matrix

Clarity
Complexity
Helpfulness

Performance Indices The performance matrix evaluates workshop performance based on clarity, helpfulness, and complexity, improving participant experiences.
Significance : The performance matrix is significant in evaluating workshop performance based on clarity, helpfulness, and complexity, improving participant experiences.

Helpfulness Index



Helpfulness Index

This measure gauges workshop helpfulness in supporting participants' personal projects effectively.

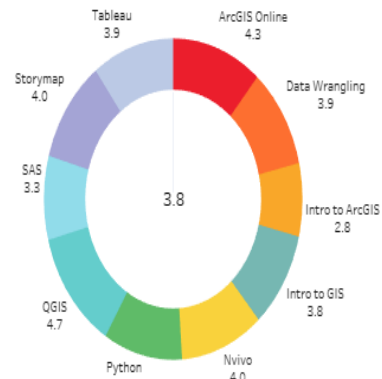
Significance of Helpfulness Index : A good helpfulness index determines that the workshop is helping all the people how register in their personal projects.

Clarity Index

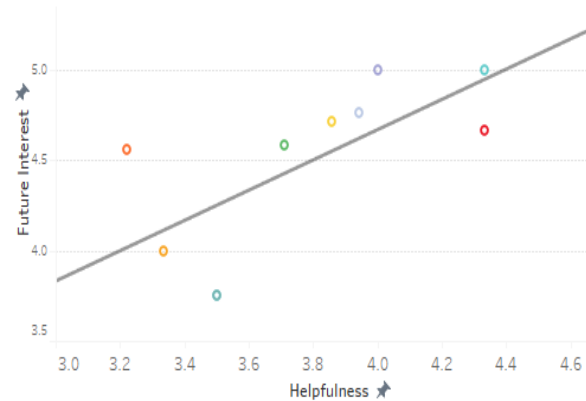
Clarity Index

This parameter rates workshop clarity by the GIS and Data services team, ranging from 0-5. A higher rating indicates participants' clear and comprehensive understanding of the content.

Significance of Clarity Index: The clarity index is significant in assessing workshop understanding and delivery effectiveness, leading to better learning outcomes and participant satisfaction.



Future Interest Index



This measure examines the correlation between workshop helpfulness and future interest in attending workshops. A positive correlation indicates that those who find a workshop helpful are more likely to register for future workshops.

Significance of FI: A positive correlation implies that participants who find the workshop helpful are more likely to attend future workshops. This insight guides strategies to encourage ongoing engagement.

Note: Some of the illustrations and visual representations done on this dashboard were using the tableau extension showmemore 2.0.