

ACADEMIC LIBRARIAN SEMINAR 2023

Theme: Social Media and Disruptive Technological Innovation in Libraries

LIBRARIAN'S ROLES IN SUPPORTING THE RESEARCH PROCESS USING DIGITAL RESEARCH TOOLS: THE CURRENT LANDSCAPE OF ACADEMIC LIBRARIES IN MALAYSIA

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The purpose of this paper is to explore the professional opinion and current knowledge possessed by librarians with reference to digital research tools in supporting the research process in academic libraries in Malaysia.

Abstract

DESIGN & METHODOLOGY

A quantitative research methodology was adopted in the form of a survey, developed using JotForm to collect data from a cademic librarians working in public universities in Malaysia.

LIMITATIONS

The research is limited to the academic librarian of public universities libraries in Malaysia and focuses on the current knowledge they have on digital research tools and determining librarians' opinions.

PRACTICAL IMPLICATIONS

The findings will be helpful to librarians, information professionals, libraries and library schools. The results will inform librarians on the research skills and digital competencies that are essential for continuing professional development, possible reorganisation of the functional units of the research department and the relationship between the librarian and the researcher in a changing environment.

ORIGINALITY

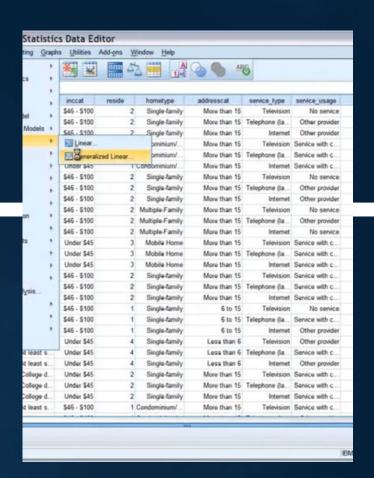
This study would be a worthwhile contribution to the literature on competencies of information professionals especially academic librarian as such no study appeared providing evidenced and field-based insights toward proposed reasearch area.

FINDINGS

The findings of the study indicate that there is a need for librarians to become more involved in the process of acquiring new skills, such as learning how to use research tools, so that they can play a more active role in the most advanced levels of a cadem ic research in the future.

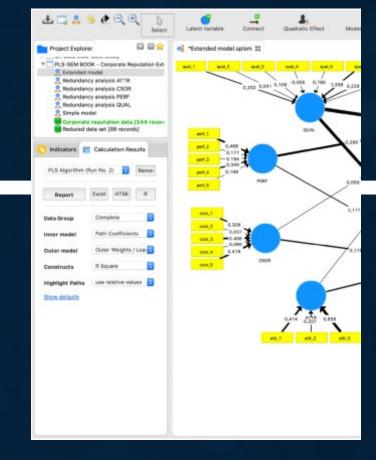
INTRODUCTION

The availability of software to assist researchers in their work has increased dramatically, whether it be for facilitating the creation of literature reviews or the execution of statistical analyses.



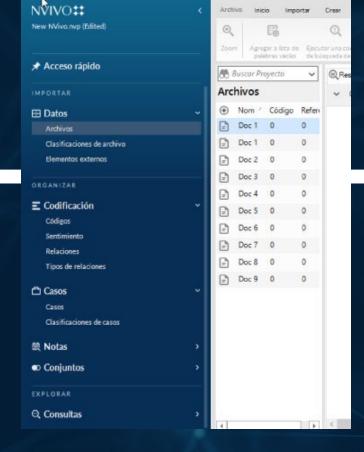
SPSS

Software program used by researchers in various disciplines for quantitative analysis of complex data.



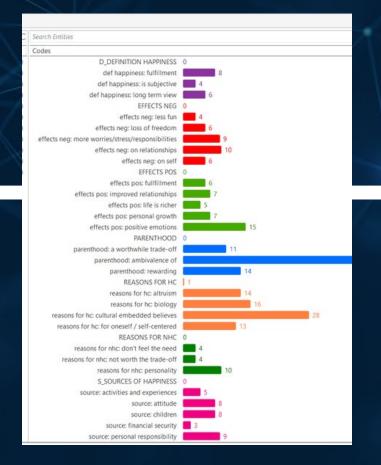
SMARTPLS

Software with graphicaluser interface for variance-based structural equation modeling using the partialleast squares path modeling method.



NVIVO

Software for qualitative and mixed-methods research. It analyses interviews, focus groups, surveys, social media, and journal articles' unstructured text, audio, video, and image data.



ATLAS.ti

Computer-assisted qualitative data analysis software that helps analyse qualitative data for qualitative, quantitative, and mixed methods research.

INTRODUCTION

Academic library professionals have played a very significant role in supporting research, as well as teaching and learning, among university academics and students.

The changing landscape of information and information technology and services requires a certain level of digital skills from library professionals to handle the challenging work they face in a cademic libraries (Okeji et a 1., 2019).

Although librarians are frequently asked to teach student in these skills, the question now is how to most effectively teach these skills to students (Nadine et a 1., 2017).



One of these changes is the interest in, need for, and, in some cases, the requirement that librarians conduct research and contribute to the body of evidence-based library scholarship (Whitmell, 2017).

Librarians with pedagogical knowledge and experience with students' research challenges and expectations should provide input into their research and replace traditional library instruction (Gallagher, 2009).

REVIEW FROM THE LITERATURE

- The application of computer assisted qualitative data analysis software (also known as CAQDAS) has not been without its share of debate, with many academics displaying a pervasive sense of scepticism and resistance towards its adoption (Paulus & Lester, 2016).
- Despite the widespread adoption of qualitative data analysis software (QDAS) programmes, very little is understood about their actual implementation within the research process (Woods et al., 2016).



The question then becomes how a library and its librarian can become more deeply embedded in the research process.

Research methodology, data analysis support, research literature, management and organisational skills, and thesis support are all areas in which the library has been asked to either start offering new services or expand existing ones (Smith et al., 2019).

There is widespread hope that libraries will play a more active role in the highest levels of academic research in the future (Lewis, 2007).

ISSUES

While libraries understood that data services (the computing component of data services) would be useful, they initially lacked clarity regarding the breadth of the need or the specific forms the service could take in order to be implemented (Wang, 2013).

Although librarians are being asked to conduct research the expectation of what is meant by 'research' is often unclear and varies between universities (Whitmell, 2017).

Design & Methodology





Quantitative approach was adopted in the form of a survey, developed using JotForm .



Data were gathered from academic librarians working in Malaysian public universities.



Online survey links were distributed via WhatsApp to relevant groups, with the assistance of librarian networking .

FINDINGS OVERVIEW



STUDY POPULATION

Librarians working in Malaysian public universities.



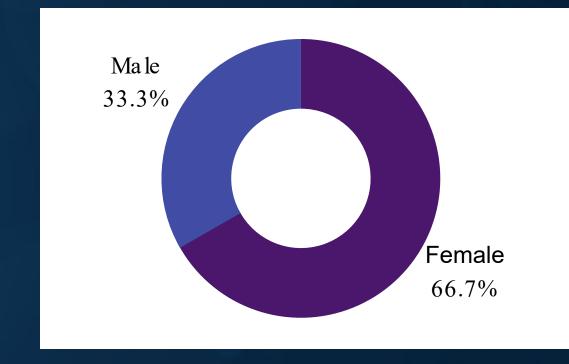
HIGHEST QUALIFICATION

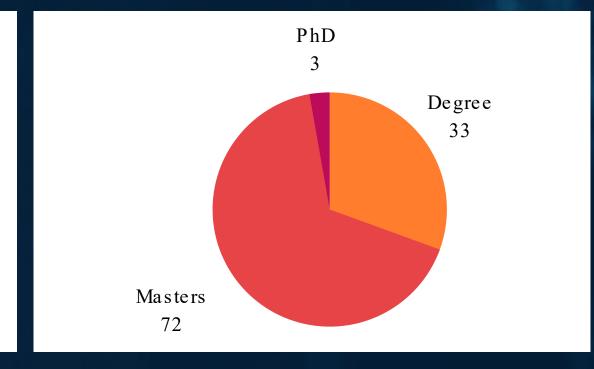
The participants in the study had various levels of education, with a master's degree being the highest, followed by a degree, and a doctoral degree.

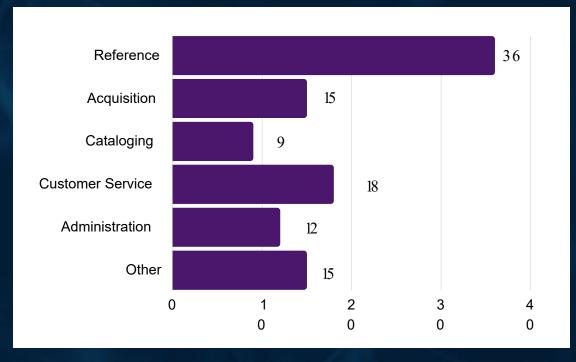


CURRENT POSITION

Participants in the study held a variety of positions in the library, with the reference department having the most librarians, followed by customer service and other departments.



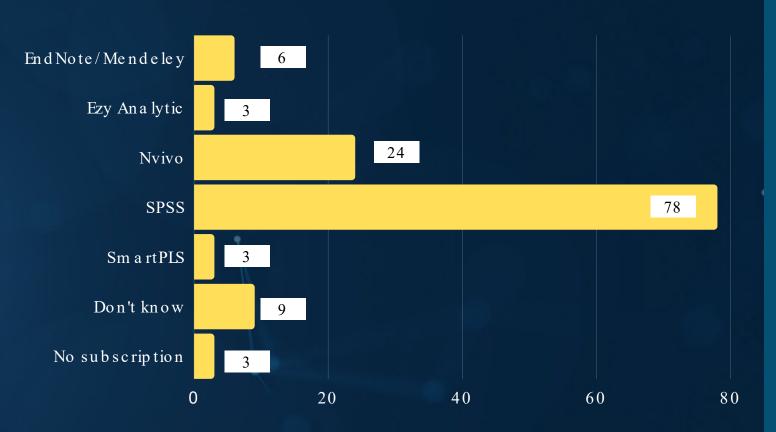




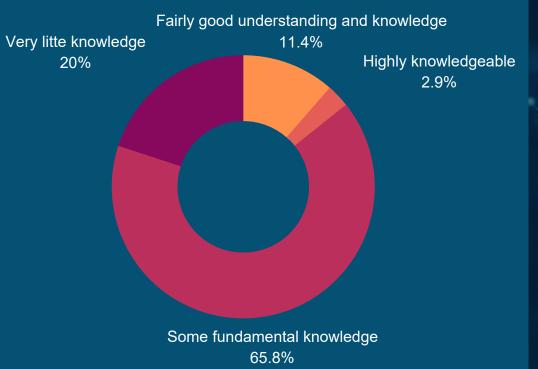
FINDINGS

LIBRARIANS' KNOWLEDGE OF UNIVERSITY- SUBSCRIBED DIGITAL RESEARCH TOOLS

• SPSS and NVIVO are the most well-known among librarians as software/tools that their university subscribes to.



FAMILIARITY OR UNDERSTANDING OF THE SOFTWARE/ TOOLS



65.8%

have some fundamental understanding of the software or tools.

PRIOR EXPERIENCE USING THE SOFTWARE/TOOLS

55.6%

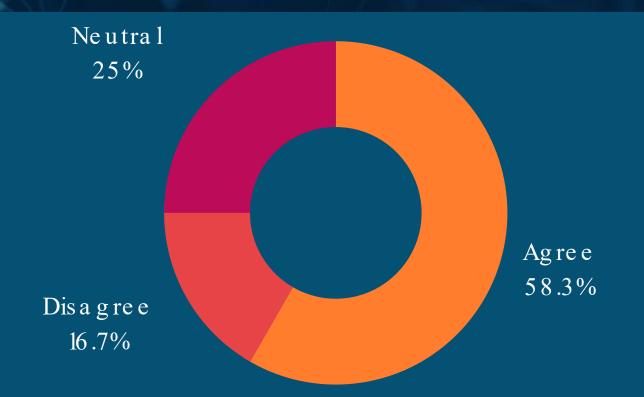
have prior experience with these software/tools.



SOFTWARE OR TOOL INQUIRIES FROM LIBRARY USERS

58.3 %

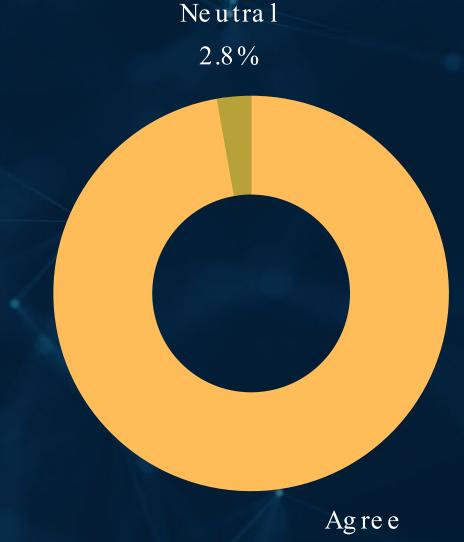
of library users asked librarians about these software or tools.



PERCEPTIONS OF LIBRARIANS CONCERNING THE BENEFITS OF SOFTW ARE OR TOOLS

97.2%

- agree that the software or tool benefit library users like students, researchers, and academics.
- this is evidence that today's librarians are aware of the existence of various software programmes and tools.



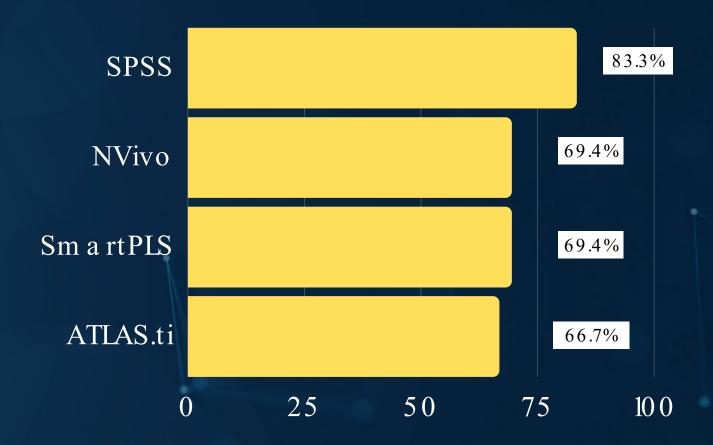
Agre e 97.2%

KEYFINDINGS

LIBRARIES' PERCEPTIONS OF THEIR ABILITY TO USE THE SOFTWARE OR TOOLS

83.3%

of respondents believe that a librarian must be able to use SPSS out of all the available software.





>50%

Librarian as respondents also believe that with all other software or tools, namely ATLAS.TI, NVIVO, and SMARTPLS were still having more than half of respondent believe that librarian should also be able to use it.

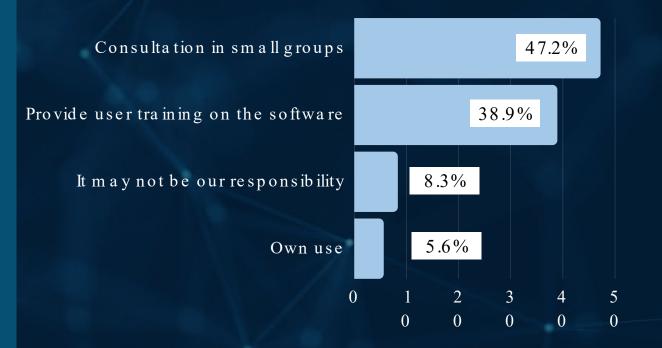
TO WHAT EXTENT SHOULD LIBRARIANS APPLY THEIR KNOWLEDGE OF THE SOFTWARE OR TOOLS

47.2%

believe that consultation services should only be provided to small groups

38.9%

believe that user training should be provided for these software or tools.





DISCUSSION & CONCLUSION

- Academic librarians today are cognizant of and in agreement with the value of digital research tools.
- With the exception of Endnote and Mendeley, however, librarian did not yet have a role in assisting library users with the digital research tools that were available.
- In order to play a more integral role in the most cutting edge forms of academic research in the future, the findings suggest librarians should take an active role in the process of learning new skills, such as using research tools.
- It is essential for librarians to have a comprehensive understanding of the activities in which their researchers are engaged so that they can determine the extent and breadth of the role they need to play.
- Librarians need to acquire new abilities to help them thrive in today's advanced research setting.

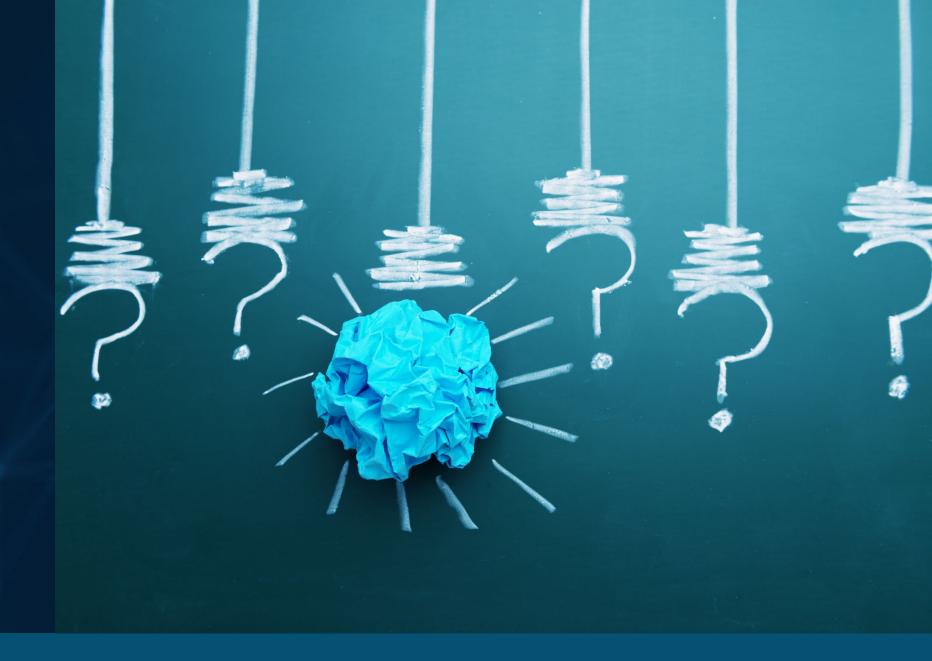
FUTURE Research

- Future research, should and has been directed toward seeking out the current status of digital research tools used by postgraduate students and to learn about the challenges and suggestions that these students have.
- It also seeks to determine whether these graduate students believe the library plays a significant role in providing support for software training.



SOMETHING TO PONDER?

Will libraries work together, or will they avoid having the tough conversations about expertise and literacies that are necessary to ensure that no students is left behind?



Questions like these are crucial because they will determ ine the nature of librarianship roles, the way our specialised knowledge is characterised, and the approaches that are deemed most valuable.

We must assume greater responsibility for these institutional barriers.

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for listening...

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