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**Weaver, Margaret ORCID logoORCID: <https://orcid.org/0000-0002-5432-4428> (2013) Student journey work: a review of academic library contributions to student transition and success. New Review of Academic Librarianship, 19 (2). pp. 101-124. doi:10.1080/13614533.2013.800754**

Official URL: <https://doi.org/10.1080/13614533.2013.800754>  
DOI: <http://dx.doi.org/10.1080/13614533.2013.800754>  
EPrint URI: <https://eprints.glos.ac.uk/id/eprint/12834>

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# **Student Journey Work: A Review of Academic Library Contributions to Student Transition and Success**

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This review aims to capture projects, services, and approaches that are being used to ensure student success and sustainability across the stages (or transitions) of the student experience of higher education, where these extend the traditional role of the library, in the UK and internationally. The article examines why the student journey (and supporting it) has become a central part of the contemporary academic library's repertoire. Fundamentally, through a student lifecycle perspective the author will attempt to show how academic libraries contribute to their university's bottom line? Finally, the article will reflect on strategic implications and areas for further investigation.

**KEYWORDS** academic libraries, student journey, student transition, student engagement, student expectations

## **SCOPE**

This review uses the framework of the student journey to identify and present accounts of recent practice that develop and support student transition into and across higher education. Rather than an in-depth review, the article is broad in its perspective in order to establish trends from the academic library literature which can inform strategy, people, and service planning in a variety of contexts. The article identifies and describes library innovations taking place nationally and internationally and explores notable examples of projects, services, and approaches that are extending the traditional function of the academic library. Consequently, reports that concentrate holistically

on students, which also demonstrate an understanding of the complex nature of the student experience, are included; whereas, more traditional working is excluded—important though this is. Taking a “research informed practice” perspective is fundamental to enhancing services (Weaver and Levy 2008) and for accountability (Haddow 2010, 40); hence, exemplars have been selected with this in mind.

The literature search was designed to assess the changing role of the academic library in the experience of students. The author aimed to elicit examples where the library worked beyond the usual boundaries of its service in pursuit of increased student focus, highlighting the value of the library to their host institution. Search terms were constructed for an extensive search rather than an intensive search as befitted the aims of the review. Keywords used were derived from the topic question: How are academic libraries developing and supporting students across their transitions into and beyond higher education? The database Library Information Science and Technology Abstracts (LISTA) was predominantly used because of its relevant professional focus, combined with Zetoc, a comprehensive table of contents pages service providing access to article citations and conference papers world-wide through the British Library. Search terms included: student engagement, student retention, student transition, library strategy, and library outreach. Services provided to alumni were excluded because of word limitations. Surprisingly, the term “pre-entry” a major stage in the student journey did not reveal many relevant articles which is perhaps due to conventions in terminology rather than lack of activity in this area, and widening participation, a UK term used to describe library outreach to non-traditional groups, was equally unproductive for articles of currency. By then mapping the literature to the stages of the student learning experience, a rich description is provided that demonstrates the creativity of library teams, highlights some strategic implications for future practice and areas for further investigation. Interventions that span boundaries between professional services and pan- university for the benefit of student transition were a particular feature in the articles chosen for this review because of their relevance to the extended role, reach, and influence of the academic library. The context and rationale for this approach is next outlined.

## INTRODUCTION

Academic Libraries are facing unprecedented demands. The changing higher education (HE) environment, technology (social media, mobile technology, ubiquitous internet), open access, and global economic uncertainty is bringing opportunities and challenges of a scale not experienced previously (Deiss and Petrowski 2009; Gwyer 2010; Jubb 2010; Nicholas et al. 2010; Harper and Corral 2011; Weaver 2013). The pace of change and the rising

expectations of students from their university/college education has been well-documented and has resulted in many innovations and in the UK, government legislation reforming student finance in 2010 (Great Britain 2010) has led to a heightened sense of what really makes up the modern student experience and value for money in 2013. Student tuition fees in the UK of up to £9,000 per year, position students more as customers than ever before, placing students in more control over their experience; the student voice is being heard by HE policy makers, including academic librarians, which is in turn leading to new services and engagements.

Higher education institutions (HEIs) in the UK were the subject of the influential Diamond Report published by Universities UK (the body representing all UK universities) in 2011. The report provides case studies of notable academic libraries that have used various methodologies to make efficiencies, (University of St Andrews—LEAN project), federal library services (University of London), and also made wide ranging recommendations for increasing shared services and further efficiencies in operations and services (Universities UK 2011). Coupled with increased internationalization, marketization, and competition, universities and colleges are being run more like businesses than ever before with consequences and opportunities for academic library leaders.

These changes are cultural, complex, and far reaching. While the academic library literature demonstrates the extended role of the academic library in the life of students, as will be evidenced, this review can only provide a snapshot of activity. The author is seeking to show the seismic shift which is taking place between libraries and their client base, libraries and their counterpart support services, and libraries and their institutions. These relationships underpin the rationale for the library's extended role in the retention and progression of students across the multiple transition points—referred to in the context of this article, as the student journey—the rise of which will next be examined.

## STUDENT JOURNEY LIFECYCLE

From a student perspective, traditionally, academic libraries tended to focus their resources on the learning and teaching experience of students while “on course” and organized themselves and their work accordingly. However with the institutional drivers to attract, retain, and progress students across their entire lifecycle in a cost effective manner, libraries are playing a larger role in building the reputation of the institution and in easing students into and across their program of study. This holistic view has been advocated by librarians as being good in its own right (Jolly 2006; Weaver 2008; Core and Hordon 2010); in response, many institutions have pro-actively merged or co-located library services with other professional services such as IT services,

student services, student administration, student finance (for example), so called “super-convergence.”

Super-convergence is a trend that extends the convergence of IT and library services begun in the 1980s (Hansen 2005) and has partly been made possible by new space configurations (Appleton et al. 2011; Murvosh 2012), whereby services can be provided in an integrated service environment enabled by estates improvements, shared buildings, and shared campuses, even fuelled as identified by Bulpitt, by a need for organizational efficiencies and to provide seamless, integrated services support (Bulpitt, 2012). Librarians thus need to understand a lot more about the entirety of the student experience, from a student’s pre-entry into university, during their subsequent induction and first year experience, while on course, and beyond the award into employment, business and/or commerce, research, or further study. Each stage of the journey (or transition) places differing demands on academic and administrative processes; consequently, this review organizes notable initiatives through the lens of the student journey lifecycle, before considering emergent themes and implications for practice.

Bringing academic library work into focus *from a student perspective* is fundamental to the case that providing holistic, student centered services that span all the stages of studentship are more likely to attract and retain a diverse and discerning student body. Organizing the literature against a four stage model developed at the University of Cumbria to achieve more targeted student support is integral to the aims of this review. From the literature it can be seen that libraries are playing an active role in student transition, progression, and retention.

#### Pre-Entry: Attracting Students into Higher Education

In the UK, partly in response to increased competition for a more limited pool of students, (Higher Education Funding Council n.d.) ongoing contact with potential students is systematically being used to reach students who intend to study at a particular institution, to build a sense of loyalty well before the course starts. The use of Customer Relationship Management Systems (CRM) is extending to the earliest of stages in the recruitment cycle (McClure 2012), with institutions hoping to influence a students’ choice of university well before they make their final selection. These systems are enterprise-wide in some instances, and, in others, limited to deployment in marketing/admissions departments. The bearing that an academic library can have on attracting students and influencing their choice of institution was analyzed by Lombard in his study of the Library/Admissions relationship in 14 American higher education institutions (HEIs). He comments on the sparsity of articles on the influence of libraries on College choice which led to his examination of this aspect of the student journey. His findings are not encouraging for library managers arguing for the value of the

library to the institution. Most students surveyed (297) did not choose their institution because of the quality of the library; however, over half of the survey comments related to retention and the role of the library in keeping students on course which, Lombard argues, is the main library mission (Lombard 2012, 240). He further suggests that librarians can make a difference to pre-entry outcomes by working collaboratively with Admissions personnel, by strengthening the presence of the library on institutional web sites, and by continuing library outreach with feeder high schools, for example, in the area of information literacy. He concludes: "According to the survey, many prospective students would benefit if the Library factored more prominently in their college choice; more research on why it does or does not might make this a reality" (Lombard 2012, 240). The Association of College and Research Libraries (ACRL) value study confirms that "Community college, college, and university librarians can no longer rely on their stakeholders' belief in their importance. Rather, they must demonstrate their value" (Oakleaf 2010, 4). Oakleaf suggests using surrogates for measuring library impact on student enrolments, such as the willingness of current students to recommend to prospective students, participating in prospective student events and assigning librarians as student advisers, or offering services that positively impact on student judgments of institutional quality" (Oakleaf 2010, 11); whereas, in 2007, Reynolds (cited in D. Brown and Sen 2010), found that a perceived inadequate library was a disincentive to students, cited as one of five reasons for *not* choosing a particular institution. (The intelligent use of data to back up claims of academic library value to the student journey are examined later).

In the UK, potential pre-entry impact of the library was investigated by Brown and Sen whose unique study into the exposure of academic libraries within the undergraduate university prospectus (as seen through the eyes of sixth form students) found that in the sample set of prospectuses, the library presence was variable indicating that institutions prioritized library facilities differently. They recommend that libraries and marketing departments work synergistically to promote and profile the library using personalized approaches. Furthermore, given the students in the survey rated the library as important but not a reason on its own for choosing a particular institution, more work is needed with school librarians and careers advisers to influence student views of the HE library, which are likely to vary at different stages of the application process (D. Brown and Sen 2010). Other reports show that libraries are reaching out to students at the pre-entry stage to stimulate applications and extend access as part of their institution's strategy for widening participation (the latter is a feature of government strategy for higher education in the UK). Wilson at York University Library describes one such scheme. A "distinct functional area" within the library liaison team has been created to offer study skill and library tuition to students at schools and colleges (T. Wilson 2012). The initiative is part of a national scheme,

“Realizing Opportunities,” whereby the Russell Group of research intensive universities collectively are encouraging students from non-traditional backgrounds to consider applying to them (Realizing Opportunities, n.d.).

Once students enroll on their course, their journey really begins and, as shall next be shown, academic librarians/support professionals are significant figures in the lives of students.

### First Year Experience: Smoothing Transition into Higher Education

Becoming a student is a major life change well understood by librarians and other learning support professionals and perhaps underestimated by some students themselves. However, until recently, well intentioned library induction, orientation, and information literacy work tended to focus on providing skills development that students somehow lacked in order to be successful—for example, at induction points and the first few weeks of getting into study. Taking the student lifecycle approach frees up this thinking to include a much wider perspective of studentship. Practice is now focusing on understanding and using students’ prior knowledge gained before university and acknowledging their multiple identities and affiliations which aligns with findings from eminent studies on the importance of promoting student belonging in a subject or professional context. Harris for example argues the case for supporting doctoral students (who are particularly at risk of non-completion), by buddying them with academic librarians (Harris 2011); whereas, Australia La Trobe University Library conversely measured and analyzed the entry level information skills of health science students, urging librarians to drop their assumptions that students unprepared for university were not information literate:

Understanding prior knowledge has the potential to shift our perspective of first year students as having limited skills (and need to learn everything from scratch) to a perception that incoming students have a degree of information literacy which includes a range of skills that can be harnessed and extended to embrace scholarly literacy. It opens up possibilities to improve learning activities so that they are more relevant to students’ existing skill set and more likely to support students in their trajectories from peripheral to more engaged participation in learning about university research. (Salisbury and Karasmanis 2011, 44)

They concluded that the students they studied (the results were also triangulated with a group of Canadian students) have relevant existing knowledge of information and information searching that can be harnessed for university level study, and warned that librarians risk developing uninspiring programs if they ignore prior experience. Applying games based approaches to induction activities as described by Bates et al. and further discussed in the following section built on the experiences of students and enabled them to

contribute their ideas to allay library anxiety felt by students (Bates et al. 2012).

Similarly, Tinto's seminal work underscored the importance of integrating students fully into the institution, building and strengthening the relationship and connectedness of students and their higher education institution (Tinto, 1993). Hagel, on the other hand, describes how multicultural theories challenge integration theories because the latter does not recognize the anticipatory nature of changes that institutions need to make in order to attract and retain students from multi-cultural backgrounds (Hagel et al. p. 216). They summarize:

... the different perspectives and theories of retention suggest that both students and institutions may need to adapt and that personal, situational and institutional factors may impact on institutional retention rates. (Hagel et al. 2012, 216)

There are many articles on library orientation of new students. New approaches include the use of technology and games based learning - a development discussed in a further section. Bates et al. confirmed the utility of using serious games to engage and involve new students in delivery of library induction experiences. Importantly, they present innovations from the students themselves as part of the module, implemented at Nottingham University in the UK, and aimed at reducing library and computing anxiety. The article strongly suggests that librarians should use the creativity of students which leads to new ideas that librarians can use (Bates et al. 2012).

As students move forward on their program HEIs focus on retaining and progressing students and this stage is next examined; in doing so, it is acknowledged that for some students the stages are not co-terminous or even highly defined in students' minds. The flexibility, or otherwise, of the program mode of study (for example part time or distance) extends or inhibits each transition.

#### The Award—On Course: Collaboration for Student Retention and Progression

In the UK a comprehensive study of retention research (Jones 2008) highlights that institutions are taking a student lifecycle approach citing various examples of UK best practice. Interestingly, the library does not feature specifically although student support does; this is different in 2013. As institutions seek to maximize their investment in students and to maintain income, level retention has demanded more strategic attention by the whole organization, including academic libraries.

Retention is complex, however, not least in how it is defined and measured; any gains in retention levels will be difficult to attribute to an



individual area's interventions—a point made by Matthews who labels retention rates as indirect measures of learning (Matthews 2012, 390). It is axiomatic, however, that having a student centered approach and providing focused student support services will be more likely to benefit individuals and hence improve retention. Libraries and their resources feature in the UK Higher Education Academy Higher Education Retention and Engagement project (HERE Project 2011) as being a possible predictor of why students withdraw. The HERE model takes a three stage lifecycle approach “Pre- entry, In HE, Beyond HE” to map its recommendations against across three overlapping spheres, Academic, Social, and Services. Put simplistically, the longitudinal study, 2008–11 in three UK universities, demonstrates that students who are not confident learners (termed doubters) are more likely to leave HE than their “non-doubting” counterparts, and may not have asked for sufficient help with their studies. There are many implications for academic libraries in the final report, which is well worth reading; the most relevant for libraries are the need to:

- Provide clear and accurate information to students at pre-entry;
- Ensure students understand what is expected from them and how learning and teaching differs from previous experience;
- Ensure students know what help and support is available to them via program and library staff; and
- “Prioritize and support the teaching of first year students particularly helping them to develop the skills, confidence and sense of identity required to become effective learners at university” (HERE 2011, 155).

Clearly the academic library can and does play a central role in these respects. In Australia, Hagel et al. identified five potential ways that academic libraries can contribute to student retention of underrepresented groups in higher education, encouraged to do so by the Australian government target that “by 2020 students of low socio-economic status (SES) backgrounds will comprise 20 per cent of undergraduate enrolments” (Hagel et al. 2012, 214).

They recommend that academic libraries can contribute to retention by:

- Helping students to commit and engage academically including embedding support within courses;
- Catering for diverse student groups and tackling non-use of the library and its resources;
- Understanding individual differences and experiences including exposure to and use of technology and mobile access and providing suitable alternatives;
- Identifying and playing an active role at trigger points for student withdrawal and students “at risk” of leaving; and

- Collaborating with other institutional support areas to provide integrated and seamless support. (Hagel et al. 2012)

Their study compared retention research projects at seven academic libraries as reported in the literature (2012, 222), several of which demonstrated some positive correlation between library usage data and attainment (Mezick 2007; Emmons and Wilkinson 2011; Goodall and Pattern 2011). Kuh and Gonyea's study, reported by Hagel et al., had a more wide ranging conclusion however; that is, it is the challenge of the academic program that drives library usage rather than the existence of the library's resources per se (Hagel et al. 2012, 219). This last factor underscores and validates the large amount of time librarians spend in engaging pro-actively and creatively with faculty to embed and integrate learning outcomes relating to information literacy skills in courses.

Haddow and Joseph, at Curtin University, Australia, looked particularly at new students and whether use of the library led to continuation in study, marrying up demographic data with library management system data. Given non-completion of program and academic failure are key reasons for withdrawal (as opposed to say personal circumstances), it is significant that they highlight that the early use of the library during the first few weeks of study tends to lead to better retention levels, although usage of the library physically and electronically varied between mature students and students from different socio-economic backgrounds (Haddow and Joseph 2010). Implications arising from this and other studies on retention are that academic librarians need to understand their student profile more deeply and that use of the student information management system for the evidence base and data mining is essential. Matthews provides a useful and practical insight into the use of correlation techniques and data "farming" using library data and university central data (a campus data repository) to demonstrate the library's contribution to university outcomes, for example retention. He advocates that librarians will need to become "good data jockeys" (395) able to conduct broad based data analysis to measure, understand, and improve services, which will require evidence about what our users are *actually* doing. He argues that by building a complete picture of library services (collections, virtual services, space, and user satisfaction) combining the data from multiple sources, academic librarians will be able to better demonstrate the impact of the library (Matthews 2012). While usage is an imperfect tool, it is likely to also mean that non-use can be estimated and perhaps understood.

Library outreach is also a major feature of some pre-entry programs and the "on course" experience, in both the USA and the UK. Notable initiatives include roving librarians (Barratt et al. 2010; Sharman and Walsh 2012), school outreach and teacher-librarian collaboration (Oakleaf 2010), and field librarians (Rudasill 2010). Some projects have the specific aim to reach under-represented groups for example the Satellite Outreach Services (SOS)

presented by Aguilar and Keating in their outreach program to engage students from diverse ethnic backgrounds, “bringing librarians direct to students” via careers information, course information, and library services in multi-cultural student centers at the Zimmerman Library at the University of New Mexico (Aguilar and Keating 2009). The common features of these schemes are that the library staff work flexibly in a mobile fashion outside the library space; the emergence of the “pop-up” library at Liverpool Hope University in the UK is reported by Murray (S. Murray 2012) and even the “pop-up” campus where there is no permanent campus or library (Staley and Malefont 2010). In the USA, the “Embedded Librarian” concept indicates the pro-active stance being taken by academic library staff to engage faculty and students in their learning and research—in the user’s environment not the library environment—connecting with what students and researchers do daily (Rudasill 2010; Si et al. 2012). As quoted by Si et al. in her article on embedded librarian movement in China:

They’re getting out of the library and heading for classrooms, labs, and even tour buses. They’re embedding themselves with research groups, faculty members, and courses. (Si et al. 2012, 175)

An approach taken by many libraries is to strategically work with students as partners, involving them in the learning process, including working closely with Student Unions/Associations. An emphasis on collaboration with students has been brought into prominence recently in the UK by the introduction of tuition fees, accompanying notions of students as customers, and the disappearance of students as a captive audience (Alire 2007); however, collaboration with students and the importance of the “student voice” to service development has been a cornerstone of the information professionals’ working for some time.

Brock and Tabaei describe how marketing students at Touro College, USA, contributed to the marketing of library services producing marketing plans as part of their academic program, by creating a “real world class scenario” of value to students and to the library. The librarian became the client and this motivated the student differently in the dialogue and engagement process:

Libraries can learn a lot from such collaborations. Light is shed on students’ viewpoints: it tells us what they think of the library, what they expect from their college library, and how the library can become more appealing to their population. This study also confirms evidence by marketing professors that real-world assignments can create enthusiasm and learning in their classes and can add to the learning experience of students. (Brock and Tabaei 2011, 366)

Recommendations include using real-life problems and scenarios to encourage the development of information literacy skills and promoting library services in terms students can engage with (Brock and Tabaei 2011).

Hence, the imperative to engage students fully in their university life and in library services across the many transition points is a recurrent theme in the literature and seemingly a challenging problem requiring attention and resources. The use of technology to involve students in decision making about their experience has spawned many innovations, leading to a more personalized student experience.

Academic libraries are using these opportunities strategically to differentiate the “student offer” in a competitive environment making personalization part of a library-wide strategy to progress and retain students (Priestner and Tilley 2012). They argue that with the starting premise “You matter more than our service,” it is possible for staff to have a personalized mindset supported by having low levels of bureaucracy; letting staff “break the rules” for a user; having flexibility of approach, that is, getting out where the students are (metaphorically and physically) as mentioned previously; and embracing patron driven development of service. A good example is patron driven book supply (either print or electronic) whereby students are in control to choose their own titles rather than rely on the library’s choice (Nixon et al. 2010; Breitback and Lambert 2011). Promoting wellness as part of the student development cycle is a recent phenomenon for libraries—being more the province of student services. An innovative approach, employed by the University of Connecticut Library, during final year examinations was to help students allay examination stress through “animal assisted activities” and the use of therapy dogs. The “Paws to Relax” program was combined with social media to create dog fan clubs and the authors indicate that the sessions could be used for new students experiencing homesickness (Reynolds and Rabschultz 2011).

The role of new technology and mobile computing in student learning is prevalent in many articles in the literature and there is not space to cover this topic in depth here. However, what is clear is that academic libraries are embracing rich media in diverse ways to reach and retain students through engaging them online.

At an institutional planning level in the USA Lippincott considers how libraries can re-engage using mobile technologies (Lippincott 2010) while Wilson and McCarthy focus on using mobile technology to build strategic partnerships and play a leading role in student centered provision through not only the mobile enabled library but through the “mobile campus” (S. Wilson and McCarthy 2010). Incorporating mobile library services in academic libraries is not a trivial subject. Kroski’s seven mobiles overview, although four years old, would be a good place for libraries to start that are unaccustomed to mobile environments—it covers library web sites, SMS reference services, mobile OPACS, Integrated Library Systems, mobile collections, ebooks and

mobile reading, mobile instruction, and mobile audio/video tours (Kroski 2008; cited in L. Murray 2010). Murray also acknowledges the importance of resources suggesting that solutions are available that are both “scaleable and inexpensive” (L. Murray 2010, 234).

Since Murray’s overview, more interactive ways of using technology are present in academic libraries. Examples include: the promotion of library services using games based approaches (D. Stone and Pattern 2013); library instruction using games (Smale 2011); the use of QR Codes (Whitchurch 2011); and Facebook (Ayu and Abrizah 2011). A content analysis of Facebook from 17 USA libraries was undertaken by Philips (Phillips 2011), and Canuel and Crichton wrote about mobile services analysis in Canadian academic libraries (Canuel and Crichton 2011). The production of online tutorials is outlined by Blummer and Kritskayer (2009). Writing about libraries and gamification, Danforth says “At its most basic definition, it is the application of gameplay mechanics in nongame settings” (Danforth 2011, 84); whereas, Dickson and Holley state: “Virtual games allow academic libraries to move traditional library services to an entirely new platform” (Dickson and Holley 2011, 473), a notion backed up by the columnist Kirriemuir (2012). He describes how some library back room services are now being studied to see if gamification can make them more enjoyable and hints at the use of competitive gaming techniques to check or improve data quality, which could benefit libraries (Kirriemuir 2012).

### Beyond Higher Education Employability Initiatives

Some academic libraries take the partnership/engagement model one stage further and actively involve students in service delivery or design, either through formal employment opportunities in the library, volunteering, work placements, or as Steuer and Brodhead describe, through “non traditional approaches to internships and practical experience” (2011, 35). In the case of the latter, a behavioral science student was engaged as a “consultant” to advise the department about changes to increase the attentiveness of student assistants, employed in a special collections library at Western Michigan University. The student used his knowledge and research methods from his psychology course to bring about behavioral change in the library setting using fresh eyes. The authors point to the more strategic benefit for academic libraries and conclude:

At a time when academic libraries are under significant financial stress and concerned with integrating themselves with the curriculum as well as providing information, innovative thinking about how to integrate the individual strengths and goals of the student worker into the departmental needs can enhance the instructional program of the library, create innovation in procedures and policies, and contribute to student success. (Steuer and Brodhead 2011, 42)

Walton confirms the importance of students as “change agents” and draws attention to the long history of libraries employing students in creative ways (Walton 2010). What is evident from the literature is the shift over time from students as employees, to be “instructed”—paid for fairly low level duties to support their living expenses, to students as leaders, collaborators, and co-creators. One good example of this is work at Emporia State University described by Akers (2011), between 2006 and 2011 to create a recognized student organization (RSO)-(Empowered Students for University Libraries and Archives (ESULA)), that is, influencing library strategy, providing opportunities for peer leaders and mentors and harnessing “student activism” to engage other students who might otherwise avoid the library. This initiative underlines the strategic approach necessary to offer students a “training ground in leadership and mentoring of fellow students” (123). Much more than a “reading club” or “friends of the library,” ESULA exploits the symbiotic relationship that exists between students, libraries universities, and even the wider profession (Akers 2011).

Heightened student expectation of employment post-award is also driving institutions (and their libraries) to re-prioritize employability initiatives and integrate more work experience into all awards. This is so for librarianship. Opportunities have been grasped by some academic departments running library and information programs, “library schools” to study student perceptions in order to plan curricular such as the student perception of course study undertaken by the University of Toronto. Their findings indicated that information studies students are concerned about how well their course prepares them for employment and they want a greater emphasis placed on the practical elements; they also uncover some interesting findings about the role of “occupational prestige,” which leads them to comment on the variable opinions expressed on the perceived low status of the library profession (Cherry et al. 2011).

The issue of student perceptions of librarians was also the subject of a study at the University of Sheffield. The opening of the new Information Commons led to a survey into the perceptions of students of librarians and whether this influenced use of the library. In summary the broad value of perception studies to the student journey is summarized as:

- To assess how well the service is being delivered;
- To evaluate quality and relevance; and
- To understand how new models of library provision are working including strategies for delivering support in multi-functional environments (Bickley and Corral 2011).

They conclude: “ ... our study revealed a continuing failure by students to recognise different staff functions and expertise, in particular the academic roles and affiliation of librarians, resulting in poor use of the support

offered ... ” (Bickley and Corral 2011, 239; also confirmed by Medeiros 2012), leading them to emphasize the importance of reaching out via the virtual environment and being pro-active, meaningful partners with academics. The next section of this review draws together implications for future practice arising from trends present in the analysis of the review. It suggests imperatives that may be of benefit to library leaders and others in developing service strategy and in work force planning for the student journey of the future.

## STRATEGIC IMPLICATIONS FOR FUTURE PRACTICE

### Position for Impact

The literature shows that new partnerships are emerging because no single department has the full picture of the entire student journey, nor has the expertise to cover it all. The author contends that the boundary working that is needed for successful student support should be part of the academic librarian repertoire, and at all levels. Bergman reflects on the tactics that can be employed by new library directors to connect to other senior campus administrators to build influence, including developing and understanding the cultures of other departments, meeting people to learn what they are doing, getting to know managers and staff in departments that provide core business services to the library before you need their services, addressing the priorities of other departments and the institution, and using the expertise of other campus professionals (Bergman 2011).

These strategies are not just the province of the new service head or even only the academic library (see S. C. Brown and Porterfield 2008 for a student services perspective on influence). Love and Edwards (2009) give a more compelling reason from a student journey perspective, rather than a professional perspective, as to why collaboration in support of students is essential—expanding the definition of what an academic library “should be,” in particular, given our students’ lives blend home, study, and work in ways that challenge what a library offers, further:

As information professionals who also have responsibilities as educators and student advocates in higher education, our expertise and services can be used and will enhance most other academic and student service organizations on campus. The key is recognizing the specific and unique needs of students, understanding the information component of these needs and seeking out collaborators to assist us in addressing those needs. (Love and Edwards 2009, 24)

They urge librarians to work strategically to achieve quite different outcomes to those of internal library collaboration such as greater campus visibility and increased awareness by different professional groups of the relevance of information literacy to their roles.

## Strategize Student Engagement

In the UK, a recent research study sponsored by the Higher Education Academy (HEA) compared notable qualitative studies and highlighted the complexities of student engagement and the important role that persistence plays (Wimpenny 2011). Student engagement is critical to retention. How can academic libraries engage students in their learning?

If we accept that:

There's very strong evidence to suggest that students tend to be more engaged with learning, ... if they engage with library resources, interact with library staff, and spend time using libraries. (Australian Council for Educational Research 2009)

... a more strategic approach and collective action is required pan-university. Therefore, this means working collaboratively with a wide range of faculty and professional services colleagues. A collective approach is more likely to succeed, confirmed by Salinero and Beardsley:

... any definition used for meaningful application and purpose must originate from, and be contingent upon the collaborative efforts among students, faculty, and administration for the enrichment of student learning, achievement of lifelong learning skills, and the fulfillment of responsibilities related to higher education accountability. (Kuh 2003, quoted in Salinero and Beardsley 2009)

They suggest that academic librarians should lead and initiate the conversation about defining student engagement plans in their own institutions. Academic libraries could also usefully consider the UK model outlined previously via the HERE What works? Retention Program using the tool kit developed for this purpose (HERE 2011).

## Measure and Improve the Student Journey

Increasingly, there is a requirement for librarians to understand their student profile much more thoroughly, for example, in Thailand, Siriprasoetsin et al. urges librarians to more fully utilize data in Customer Relationship Management (CRM) systems (Siriprasoetsin et al. 2011). Over several years various toolkits have been produced to assist academic libraries in performance management (SCONUL, <http://vamp.diglib.shrivenham.cranfield.ac.uk/> and in the USA, the Association of College and Research Libraries (ACRL, 2010: [www.ala.org/acrl/proftools/toolkits](http://www.ala.org/acrl/proftools/toolkits)). Recently in the UK, the AMOSSHE Toolkit on measuring the value and impact of services that support students draws together a number of evidence bases such as literature from the USA, SCONUL impact evaluation of academic library services, and also from



the perspective of “social return on investment” (see <http://www.sroiuk.org>). The toolkit could become an essential component of any holistic evaluation of the library’s impact beyond the library (AMOSSHE 2010).

Additionally, end-to-end business process reviews are taking place alongside library reforms to maximize the impact of delivery and to be efficient. Matthews’ assessment plan (which in the UK would be described as an evaluation plan) (Matthews 2012, 400) provides a good overview of data constructs and ways to map student activity across systems, while preserving anonymity to measure impact. In the UK, Huddersfield University Library (Stone and Pattern 2013; G. Stone and Ramsden 2014) is leading the field on library impact analysis using data. They found that the project’s hypothesis “Is there is a statistically significant correlation across a number of universities between library activity data and student attainment?” was positively significant in two indicators: use of library electronic resources and book loans (G. Stone and Ramsden 2014; “Thus, the more a book or e-resource is utilized; the more likely a student is to have attained a higher level degree result” and this was true across all eight partners). Furthermore, by comparing usage against student withdrawal data, their key message to students is that you are 7.19 times more likely to drop out if you do not use the library. The Joint Information Systems Committee (JISC) in the UK has spearheaded many institutional projects on data and indicated the potential importance of activity data to institutions; in December 2012, they published an overview report summarizing projects that strategized data architecture and particularly those that then enabled learning analytics. The exemplars in the study indicated the strategic importance of data governance, activating data collection, mining data across systems, and the need to include activity data in systems requirements. Without doubt, librarians will need to strengthen their skills in business analysis and statistical application in order to harvest and interpret the massive potential intelligence that exists in enterprise systems and maximize the value to their organizations (Joint Information Systems Committee 2012).

#### Further Develop the Leadership, Attributes, and Skills for Student Journey Work

As this review has shown, academic librarians are constantly refreshing and re-visiting their assumptions about higher education including re-envisioning the role of the academic library in the twenty-first century, influencing the library culture and the wider culture within their institutions. Jantz provides the rationale for seizing the opportunity to innovate:

Given the growing uncertainty about the role of the academic library in the university, it becomes increasingly important to understand innovation and how library leaders are creating an innovative environment in their institutions. (Jantz 2012, 4)

Jantz examined the perceptions and practice among six American University Librarians. From the research results, Jantz concludes that in order to encourage and lead innovation (which is complex and difficult), library leaders will need to create:

- Strategies that support traditional and exploratory services (11) and dual structures (9);
- Different business models, for example more resource generation (11) and new services that counter those of commercial organizations offering similar services (9);
- More business-like measures of performance (see the aforementioned); and
- Morale-boosting initiatives that mitigate conflict and stress that staff may feel when faced with rapid and radical changes to process and structure (9). (Jantz 2012)

This requires leadership and an appetite for risk; that is, given that incremental change is not going to be sufficient to deliver effectively in a turbulent educational environment, major change is what leaders should be aiming for (Jantz 2012).

In creating the environment for innovation and sustainability, resilience will be needed to experiment and adapt, especially where competing priorities vie for more limited resources. Weaver suggests that a positive self-concept is an important attribute to cultivate:

The potency of self belief is most affected by short term success in tasks and the feedback of others; in reverse failure easily reverses the feedback of others and is less sustainable than a positive self concept that seems to carry one through as a longer term persistence. The latter will need to be part of the successful Information Professional's armoury in the future. (Weaver 2010)

Roberts and Esson emphasize leadership skills needed for collaboration—a way of working fundamental to student journey work. They advocate a leadership model:

that puts the leader personally at the centre of any collaboration ... [arguing that] influencing is deeply personal, stemming from 'who you are and what you stand for' which in itself creates authenticity and congruence (what you see on the outside reflects what is on the inside). The model then connects the personal with empathy for others, the basis for building rapport, which is developed through highly effective communication. (Roberts and Esson 2013, 94)

Goulding et al. (2012), on the other hand, studied the political and sensitivity skills needed for leadership of modern academic libraries by comparing the perceptions of early career librarians, public librarians, established library leaders, and library students. The relevant point of the research for this article is that drawing on the views of library leaders, they concluded that being able to build strategic alliances across and outside the university was a key political skill, and of “upmost importance” particularly in turbulent economic times—to win resources and influence. They allude to what the author of this article calls the collaboration paradox (Weaver 2013, 73); however, this impacts on library leaders’ willingness to enter into joint relationships and postulates that the economic climate is perhaps leading to increased competitiveness, which itself means new skills are needed (Goulding et al. 2012, 114).

Finally, an African paper written by Moropa (2010) suggests that to cope with tough times and to prevent the library from being marginalized, academic librarians should examine why private organizations fail, learning from the mistakes of their leaders. Caution is needed with this approach as there is no blueprint for avoiding future failure based only on past experience, more it is how you respond to setbacks that counts and how you recover using your internal cognitive reserves (Boss and Sims 2008; Weaver 2010). Nonetheless, Moropa highlights the singular challenges African academic libraries are facing and gives useful insight into the negative leadership attributes to avoid such as arrogance, complacency, denial, and provides an example of how positive use of the library strategic plan to demonstrate contribution to the university’s goals at the University of Pretoria led to a mix of tactical and strategic working to enable sustainability (Moropa 2010).

## AREAS FOR FUTURE INVESTIGATION

This review has sketched out the significant boundary working that is taking place in many library institutions across the world, attempting to define the particular contribution of academic libraries to the total student experience in higher education. Rich seams of further research potential exist and this is particularly needed in the UK; with notable exceptions, mentioned in this article, there is a dearth of explicit literature on the impact of the library on student success across the transitions at the individual student level. Areas for further research might include strategic partnering with schools libraries as suggested by Matthews (2012, 394); use and evaluation of the HERE: students’ experiences of learning support (doubters and non-doubters) toolkit by librarians (HERE 2011); social networking to engage students (Dickson and Holley 2011, 477); leadership, emotion, and self-regulation (Weaver 2010); design of innovation metrics appropriate to the academic library answering the question how do academic libraries contribute to the innovativeness of

the parent institution (Jantz 2012); triangulation of student perceptions of academic librarians' educational backgrounds and perceived appeal of enquiry services (Bickley and Corral 2011, 240); and examining further the value of the library in college/university choice (Lombard 2012, 240). Services provided to alumni and their engagement with the library would also be a fruitful area of investigation.

It seems appropriate to give the last word to one of the students in Lombard's study on institutional value to recruitment ability—in the current economic climate arguably the bottom line for many currently and one of the key transition points of the student journey:

If I knew then, as a high school senior, what I know now as an adult, I might have held the library's facilities in higher esteem when making my college choice. But then again libraries have changed drastically since the time of my undergraduate studies. Today it is vital that libraries be as current as possible with technology and trends. Our students will expect it. (Lombard 2012, 239)

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