

Seattle University

ScholarWorks @ SeattleU

Library Faculty Scholarship

Lemieux Library & McGoldrick Learning Commons

2020

Desperately Seeking Funding: Library guides to student funding

Rochelle Lundy
Seattle University

Reilly Curran
Seattle University

Follow this and additional works at: <https://scholarworks.seattleu.edu/library-fac>



Part of the [Library and Information Science Commons](#)

Recommended Citation

Lundy, R. and Curran, R. (2020), "Desperately seeking funding: library guides to student funding", *Reference Services Review*, Vol. 48 No. 3, pp. 415-431. <https://doi.org/10.1108/RSR-03-2020-0021>

This Article is brought to you for free and open access by the Lemieux Library & McGoldrick Learning Commons at ScholarWorks @ SeattleU. It has been accepted for inclusion in Library Faculty Scholarship by an authorized administrator of ScholarWorks @ SeattleU.



Desperately Seeking Funding: Library guides to student funding

Journal:	<i>Reference Services Review</i>
Manuscript ID	RSR-03-2020-0021.R2
Manuscript Type:	Original Article
Keywords:	Affordability, Funding, Scholarships, Grants, Financial Aid, Academic libraries

SCHOLARONE™
Manuscripts

Desperately Seeking Funding: Library guides to student funding

Abstract

Purpose: This study examines online research guides as a measure of academic library support for students seeking educational funding opportunities.

Design/methodology/approach: The library websites of 38 members of a regional academic library consortium were examined for guides that address funding for educational purposes. Guide content was manually reviewed. Information regarding institutional characteristics was gathered from the Carnegie Classification of Institutions of Higher Education.

Findings: Despite relatively few reports of educational funding support in the library literature, online guides exist at 42% of studied institutions. However, few guides are comprehensive and many lack features that promote discoverability. Instructional content — guidance, advice, or information beyond resource descriptions — and in-person funding support rarely appear in the studied guides, presenting opportunities for academic libraries to contribute to student retention and success.

Practical implications: This paper provides information on and examples of online guides to educational funding useful to academic libraries looking to support students facing affordability concerns.

Originality/value: This paper contributes to the literature on non-disciplinary uses of online research guides and is the first to survey academic library guides on educational funding opportunities.

Introduction

The higher education community has struggled to respond to a crisis of affordability (Brotton and Goldrick-Rab, 2016). As a result, many students must secure scholarships, grants, or other aid to cover tuition bills and living expenses. Libraries, which exist at the crossroads of academic affairs and student services (Nichols Hess et al., 2015), are well-positioned to support students in need of such educational funding opportunities. Seeking funding requires the research and information literacy skills in which librarians specialize and librarians' customer service ethic primes them to successfully convey information on funding options (Joe, 2016).

Academic libraries frequently contribute to efforts to mitigate the impact of rising education costs, most notably by promoting alternatives to textbook purchasing and providing resources aimed at improving students' financial literacy (Reiter and Ford, 2019; Todorinova and Wilkinson, 2019). However, initiatives directed at helping students obtain funds are less readily apparent in the library literature than those that attempt to systemically reduce costs or improve financial understanding. The authors became engaged in funding-related projects at their own institution in response to an invitation from a student support unit, which led to an awareness of similar efforts at other academic libraries. With this study, they endeavor to fill the apparent gap in documenting library funding initiatives.

Although funding support may take a variety of forms, such as the development of programming related to scholarship-seeking or the provision of funding-specific consultation services, this preliminary evaluation of library funding support focuses on online research guides. Online guides utilize existing library infrastructure and represent an approachable entry point for providing funding information. By identifying and examining funding guides hosted by academic libraries across a regional consortium, this study both offers direction for librarians building these resources and creates an initial map of the funding support landscape. More specifically, it investigates 1) the prevalence of library guides to

1
2
3 educational funding opportunities, 2) the size and type of institutions at which library funding guides
4 exist, and 3) the content of library funding guides.
5
6
7
8
9

10 **Literature Review**

11 This literature review provides an overview of affordability challenges in higher education before
12 describing how academic libraries have participated in affordability-related efforts. It briefly outlines
13 library initiatives to reduce course material costs and improve financial literacy, and then focuses on
14 services that support users seeking scholarships, grants, and other sources of educational funding.
15
16 Finally, it examines literature relating to online research guides, summarizing how previous studies have
17 sampled guides and analyzed guide content.
18
19
20
21
22
23
24
25

26 *The Affordability Crisis*

27
28
29 Recent decades have brought the issue of higher education affordability into focus, as a
30 postsecondary degree has never been more expensive (Kirshstein, 2012; Ma et al., n.d.; U.S. Department
31 of Education, n.d.). Increases in education costs have significantly outstripped increases in income
32 (Kirshstein, 2012; Peters et al., 2019) and increases to government-provided financial aid (Welbeck et
33 al., 2014), leaving many students unable to afford college (Mitchell et al., 2019).
34
35
36
37
38
39
40

41 Student adaptations to affordability challenges can impact educational success. Many students do
42 not have a plan for making tuition payments beyond the current semester, struggle to cover rent, and
43 sometimes exhaust their funds altogether multiple times in a single academic year (Klepfer et al., 2019).
44
45 At best, these financial concerns may be distracting; at worst, they may prove debilitating (Kafka, 2019).
46
47 Financial and food insecurity are often linked to enrollment disruptions (Cooper, 2010; Hege et al., 2020;
48 Klepfer et al., 2018; Philips et al., 2018). Students may risk not buying required course materials or delay
49 enrollment in high-credit courses needed for degree completion (Florida Virtual Campus, 2019). As one
50
51
52
53
54
55
56
57
58
59
60

1
2
3 student success administrator expressed, “most students drop out not for academic reasons, but
4 because of life challenges” (Mintz, n.d., para. 5). Moreover, students of color, transgender students,
5
6 student parents, and students from the foster care system tend to experience the most severe effects of
7
8 non-affordability, compromising populations already more likely to encounter barriers to educational
9
10 success (Eichelberger et al., 2017; Furfaro, 2020; Trawver et al., 2020).
11
12
13

14
15 Higher education responded to the affordability crisis by developing new services that support
16
17 students’ financial needs. For example, some colleges and universities began offering food pantries,
18
19 assistance securing housing, transportation, or childcare, short-term interest-free loans, and free tax
20
21 preparation services that encourage timely applications for financial aid (Broton and Goldrick-Rab, 2016;
22
23 Sullivan et al., 2018). Some created integrated service hubs that provide a single on-campus service
24
25 point for resources related to financial and other basic needs (Sullivan et al., 2018). Others hired
26
27 individuals with social work training in order to better assist low-income students (Broton and Goldrick-
28
29 Rab, 2016).
30
31
32
33

34
35 Colleges and universities also recognized the importance of students’ financial education
36
37 (Eichelberger et al., 2017; Shaulskiy et al., 2015). In 2019, the U.S. Financial Literacy and Education
38
39 Commission issued a report on best practices for financial literacy at higher education institutions,
40
41 recommending that schools engage students in financial literacy and education through mandatory
42
43 financial literacy courses, trained peer educators, and integration of financial literacy into core curricula
44
45 (U.S. Financial Literacy and Education Commission, 2019). Schools responded by weaving financial
46
47 literacy skills into student orientations, study abroad programs, internship requirements, and credit-
48
49 bearing courses (Kafka, 2019).
50
51
52

53 *Academic Libraries and Affordability*
54
55
56
57
58
59
60

1
2
3 Libraries often play a role in efforts to tackle affordability in the higher education environment.
4
5 They are frequently key drivers of campus initiatives to reduce or mitigate the impact of increasing
6
7 course material costs (Todorinova and Wilkinson, 2019). These efforts include course reserve systems
8
9 and electronic textbook purchasing programs that allow students to access learning materials without
10
11 buying or renting them (Comeaux et al., 2019; Salem, 2017; Todorinova and Wilkinson, 2019). Academic
12
13 libraries also produce resources that encourage and support faculty in discovering and adopting library-
14
15 owned or openly licensed materials as course texts (Comeaux et al., 2019; Okamoto, 2013; Salem, 2017;
16
17 Todorinova and Wilkinson, 2019). Finally, libraries provide guidance to faculty authoring open education
18
19 resources and even create their own open materials (Okamoto, 2013; Todorinova and Wilkinson, 2019).
20
21
22
23

24 Academic libraries have also developed significant initiatives in financial literacy. In 2013-2014,
25
26 financial literacy became a presidential focus of the Association of College and Research Libraries (ACRL)
27
28 (Dawes, 2013). The organization encouraged libraries to address the need for financial literacy
29
30 education resulting from increased tuition costs and growing student debt (Dawes, 2013).
31
32
33 Independently and with the support of campus partners, libraries subsequently curated and promoted
34
35 collections of financial literacy resources, developed financial literacy programming, hosted peer-to-peer
36
37 financial consulting programs, and integrated financial literacy concepts into instruction sessions (Reiter
38
39 and Ford, 2019).
40
41
42

43 However, there has been less discussion of academic library efforts to help users identify and obtain
44
45 funding to cover the costs of their educational endeavors. The literature that does exist on this topic
46
47 focuses primarily on library support for research funding at the faculty and graduate student levels
48
49 rather than support for students seeking money to cover tuition and living costs. Means (2000), for
50
51 example, described the creation of a 'Research Funding Service' at the University of Washington's Health
52
53 Sciences Library that offered consultations, workshops, and online resources for faculty seeking research
54
55
56
57
58
59
60

1
2
3 funding. Forbes, Schlesselman-Tarango, and Keeran (2017) detailed the development of a workshop
4 series for graduate students seeking research funding, noting that today's graduate students do not
5 consistently benefit from faculty-led grant projects and may need to secure funding in order to
6
7
8 consistently benefit from faculty-led grant projects and may need to secure funding in order to
9
10 complete the research required by their degree programs (2017).
11

12
13 Reports of research funding initiatives suggest that these services are uncommon in academic
14 libraries. In order to investigate how academic libraries support researcher needs, Andrade and Kollen
15 (2012) examined the services offered by nineteen libraries at large, research-focused universities. They
16
17 discovered that only four of these libraries offered some form of research grant-related support, such as
18 workshops, consultations, or email alerts regarding funding opportunities. Means (2000) similarly noted
19 that although many academic libraries subscribe to research funding databases, few provide
20
21 accompanying funding services. Wu, Cai, Jin, and Dong (2018) focused on potential opportunities for
22 academic libraries to support the identification of research funding sources rather than existing
23
24 programs. Downing (2010) proposed that libraries consider collaborating with campus partners to
25
26 provide research funding support but observed that grant specialists are rare in academic libraries.
27
28
29
30
31
32
33
34
35

36 Library initiatives aimed specifically at students seeking money to cover their tuition and living costs
37 appear to be even less common. The reports that do exist, however, suggest these programs yield
38
39 significant benefits. Angell and Price (2019) mentioned an undergraduate funding initiative involving an
40
41 online guide and related instruction for both students and staff advisors as a channel through which one
42
43 library supported the holistic student experience. Joe (2016) discussed the creation of a "Quick Guide"
44
45 to financial aid. An internal document that reference librarians could consult when approached by
46
47 students, the guide ensured that library staff could provide timely and accurate answers to common
48
49 financial aid questions. Roggenkamp (2014) described how a one-shot session to support a class
50
51 assigned to locate and apply for scholarships evolved into ongoing course instruction, workshops open
52
53
54
55
56
57
58
59
60

1
2
3 to the campus community, development of an online guide, and a collection of print materials. Students
4
5 who benefitted from these resources, many of whom had not previously considered applying for
6
7 scholarships, subsequently related that they were able to remain enrolled and avoid loan debt by
8
9 earning scholarship funding (Roggenkamp, 2014).
10

11 12 13 *Online Research Guides* 14

15
16 Online research guides are ubiquitous in academic libraries (Almeida and Tidal, 2017; Jackson and
17
18 Stacy-Bates, 2016; Linares and Johnson, 2016). Although most often used in a disciplinary context to
19
20 orient users to a field's key resources, guides to non-discipline-specific topics, such as citation searching,
21
22 three-dimensional printing, and research metrics, have become increasingly common (Dagenais Brown,
23
24 2014; Horton, 2017; Suiter and Moulaison, 2015).
25
26

27
28 Numerous studies have examined the design features and usability of guides (Almeida and Tidal,
29
30 2017; Hintz et al., 2010; Sinkinson et al., 2012; Sonstebly and DeJonghe, 2013), while others have
31
32 reviewed the content of thematically similar guides (Furay, 2018; Reese and McCain, 2017; Suiter and
33
34 Moulaison, 2015). Studies that analyzed guide content employed a variety of approaches. Some studies
35
36 attempted to be as comprehensive as possible in examining what resources guides include (van Dyk,
37
38 2015; Osorio, 2014). Others devised survey instruments aimed at capturing whether a guide addressed
39
40 particular categories or questions of interest (Furay, 2018; Insua, 2018; Pendell and Armstrong, 2014;
41
42 Suiter and Moulaison, 2015).
43
44
45

46
47 Sampling techniques in guide analyses are similarly diverse. Studies exclusively focused on guide
48
49 content often first search the LibGuides content management platform for relevant guides and then
50
51 select a random or other sample from the search results (van Dyk, 2015; Osorio, 2014). Studies
52
53 interested in both assessing the prevalence of guides on a specific topic and reviewing guide content
54
55
56
57
58
59
60

1
2
3 often define their sample in relation to an existing association or consortium of academic libraries. For
4
5 example, the Association of Research Libraries and the Association of American Universities have been
6
7 used as samples in studies centered on topics relevant to research-intensive institutions (Pendell and
8
9 Armstrong, 2014; Suiter and Moulaison, 2015). Regional library consortia and associations have served
10
11 as samples for studies of guides and other features of library websites when organizational
12
13 characteristics were relevant to the topic of study (Reese and McCain, 2017) and when analyses
14
15 required a cross-section of institution types and sizes (Evelhoch, 2016).
16
17
18
19
20

21 **Methods**

22
23 The sample for this study is comprised of online guides hosted by members of the Orbis Cascade
24
25 Alliance, a consortium of academic libraries in the Pacific Northwest region of the United States that
26
27 facilitates collective purchasing, coordinates resource sharing, and administers a shared library
28
29 management system and discovery interface (“Overview of the Alliance”, n.d.). Alliance membership is
30
31 limited to degree-granting institutions located in Idaho, Oregon, or Washington that are accredited by
32
33 the Northwest Commission on Colleges and Universities (“Overview of the Alliance”, n.d.). As of March
34
35 2020, the consortium had 38 members (“Members”, n.d.). The authors’ own institution, Seattle
36
37 University, is a member of the consortium. Alliance members represent a diverse range of institution
38
39 sizes and types, including both public and private nonprofit institutions granting associate through
40
41 doctoral degrees (“Members”, n.d.). Moreover, the location of the Orbis Cascade Alliance within the
42
43 Pacific Northwest allowed the authors to focus this preliminary study on a region where affordability
44
45 challenges are particularly acute, with many students in Washington and Oregon experiencing housing
46
47 and food insecurity (Furfaro, 2020; The Hope Center for College, Community, and Justice, 2020).
48
49
50
51

52
53 The library website of each institution was examined for guides that address funding for educational
54
55 opportunities. The authors navigated to the guide section of each library’s website and used the search
56
57
58
59

1
2
3 interface to determine if any of the library's guides included the terms "funding," "scholarships,"
4 "financial aid," or "grants." Guides addressing educational funding as part of a discipline-specific guide
5
6 (e.g., biology, art history, psychology) were excluded from analysis on the grounds that they are neither
7
8 aimed at nor easily discoverable by the general campus population. However, other guides not focusing
9
10 exclusively on funding for educational opportunities were included for further analysis if the guide
11
12 appeared to target a discipline-neutral audience. Information regarding the guide creator, as well as any
13
14 tags or subjects used to label each guide, was recorded when available.
15
16
17
18
19

20 In order to investigate the size and type of institutions at which library funding guides exist, each
21
22 sampled institution's primary classification, student population size, and control structure (i.e. public vs.
23
24 private) was obtained from the Carnegie Classification of Institutions of Higher Education (Indiana
25
26 University Center for Postsecondary Research, n.d.).
27
28
29

30 In order to investigate the content of library funding guides, the authors developed a series of
31
32 questions to answer through manual review of each guide. Following Pendell and Armstrong (2014), the
33
34 authors refined the review questions and established inter-reviewer agreement by first reviewing a
35
36 small number of library funding guides outside the sample used in this study ("Arrupe College: Financial
37
38 Aid - Scholarships", n.d.; "FIC Research Guides/Bibliographies: Scholarships & Financial Aid", n.d.;
39
40 "Grants & Scholarships", n.d.). The guides used for this purpose are hosted by institutions within the
41
42 Association of Jesuit Colleges and Universities and were known to the authors through their own
43
44 institution's membership in that organization.
45
46
47
48

49 For every guide identified within the sample, the authors inspected guide content to answer the
50
51 following questions:
52
53
54
55
56
57
58
59
60

- 1
- 2
- 3 • **Focus:** Does the guide focus exclusively on funding for educational opportunities or does it
- 4 address funding for educational opportunities alongside other topics?
- 5
- 6
- 7
- 8 • **Audience:** Does the guide contain elements of specific interest to 1) undergraduate students, 2)
- 9 graduate students, or 3) faculty?
- 10
- 11
- 12 • **Breadth:** Does the guide contain information or resources relating to 1) scholarships,
- 13 fellowships, or grants; 2) financial aid or student loans; 3) research funding or other funding
- 14 directed toward scholarly projects; 4) funded internships or experiences; 5) emergency funding;
- 15 6) other funding topics?
- 16
- 17
- 18
- 19
- 20
- 21 • **Instructional Content:** Does the guide offer funding-related guidance, advice, or information
- 22 beyond a listing or description of relevant resources?
- 23
- 24
- 25
- 26 • **Funding Search Tools:** Does the guide include funding databases or directories that combine
- 27 funding opportunities from multiple sources?
- 28
- 29
- 30 • **Subscription Search Tools:** Does the guide include funding databases or directories to which
- 31 access is provided by institutional subscription?
- 32
- 33
- 34
- 35 • **Book Resources:** Does the guide include references to print or electronic book resources?
- 36
- 37 • **Region-Specific Resources:** Does the guide include funding sources or information resources
- 38 particular to the region in which the institution is located (e.g., state-administered funding, local
- 39 scholarships)?
- 40
- 41
- 42
- 43
- 44 • **Institution-Specific Funding Sources:** Does the guide include funding sources specific to the
- 45 institution (e.g., institution-only grants or scholarship programs)?
- 46
- 47
- 48 • **In-Person Library Support:** Does the guide indicate that in-person funding support is available
- 49 within the library (e.g., individual consultations, workshops, presentations)?
- 50
- 51
- 52
- 53 • **Financial Aid Office:** Does the guide link to the institution's financial aid office?
- 54
- 55
- 56
- 57
- 58
- 59
- 60

- **Other Campus Funding Services:** Does the guide link to other campus services that provide funding support?

All data was collected in February and March 2020.

Results

Guide Prevalence

Seventeen guides addressing funding for educational opportunities were identified at the sampled institutions, with one institution, the University of Washington, maintaining two distinct funding-related guides. As such, sixteen of the thirty-eight institutions (42%) maintained some form of funding guide.

Institutional Characteristics

Student populations at the sixteen institutions with funding guides range from 2,701 students to 46,166 students, with a mean of 14,598 students and a median of 8,779 students. Populations at the twenty-two institutions without funding guides range from 409 students to 26,693 students with a mean of 5,826 students and a median of 3,838 students. A *t*-test, an inferential statistic used to examine whether there is a significant difference between the means of two groups, suggests that this gap between the larger mean student population of institutions with funding guides (14,598) and the smaller mean student population of institutions without funding guides (5,826) represents a statistically significant difference, $t(19.823) = 2.4984, p = 0.02$.

Figure 1. Student populations of sampled institutions

Institutions maintaining funding guides represent eight distinct Carnegie classifications, from associate-degree-granting colleges to doctoral universities with very high research activity. Institutions without funding guides represent eleven Carnegie classifications, also ranging from associate-degree-

1
2
3 granting colleges to doctoral universities with very high research activity. Half (eight) of institutions with
4 guides fall within doctoral classifications, but only 14% (three) of institutions without guides bear
5
6 doctoral classifications.
7
8
9

10 Figure 2. Carnegie classifications of sampled institutions

11
12
13
14 Three quarters (12) of institutions with guides are public, while the remaining one quarter (4) are
15 private not-for-profit institutions. Among institutions without guides, ten (45%) are public and twelve
16
17 (55%) are private not-for-profit.
18
19

20 21 *Guide Features and Content*

22
23
24
25 Four (23%) of the funding guides do not include the name of any individual associated with the
26 guide and two (12%) list "Library Staff" as guide authors. The individuals associated with the remaining
27
28 eleven (65%) guides occupy a broad range of library roles, including reference, instruction, engagement,
29
30 outreach, social sciences, education, and scholarly communication positions.
31
32
33

34
35 All seventeen guides utilize the LibGuides platform, which allows for tags and subject labels to be
36 associated with individual guides. Tag selection varies widely among the six guides (35%) that include
37
38 tags. Tags with a clear relationship to funding include "financial aid," "grants," "loans," "scholarships,"
39
40 "student aid," and "financial literacy." Subjects associated with the seven guides (41%) that opt to
41
42 include them also vary widely. However, none of the indicated subjects bear a clear relationship to
43
44 educational funding topics.
45
46
47

48
49 Eight of the guides (47%) focus exclusively on funding for educational opportunities. The remaining
50
51 nine (53%) include funding for educational opportunities within broader topics: four address educational
52
53
54
55
56
57
58
59
60

1
2
3 funding alongside personal financial literacy, four place it with 'College 101'-style study and life skills,
4
5 and one nests funding within the library's general reference guide.
6
7

8
9 Six of the guides (35%) appear to specifically target undergraduate students, four (23%) target both
10 undergraduate and graduate students, and one targets undergraduate students as well as faculty
11 members. Only two guides (12%) do not contain content of specific interest to undergraduates, with one
12 focusing exclusively on graduate students and another on graduate students and faculty members. The
13 remaining four guides (23%) contain content aimed at the campus community more broadly, including
14 items of interest to undergraduate students, graduate students, and faculty.
15
16
17
18
19
20
21
22

23 Figure 3. Guide audience types

24
25

26 The guides address a variety of funding-related topics. Information on scholarships, fellowships, or
27 grants is the most popular subject, covered by thirteen of the seventeen (76%) guides. Financial aid and
28 student loan information follow closely behind, covered by twelve of the seventeen (71%) guides. Six
29 guides (35%) deal with funding for research or other scholarly projects, and three (18%) address funded
30 internships or other sponsored opportunities. Only one guide (7%) contains information on emergency
31 funding resources.
32
33
34
35
36
37
38
39

40 Figure 4. Frequency of guide funding topics

41
42
43

44 Eleven guides (65%) link to funding search tools in the form of databases or directories made freely
45 available online. Six of the free funding search resources listed appear in two or more of the sampled
46 guides.
47
48
49

50 Table I. Funding search tools appearing in two or more guides

51
52
53
54
55
56
57
58
59
60

1
2
3 Five guides (29%) include one or more databases for which the institution pays a subscription or
4 licensing fee. Only three such databases were observed: GrantForward, Grant Station, and the
5
6 Foundation Directory (and the associated Foundation Grants to Individuals).
7
8
9

10
11 Nine guides (53%) promote institution-specific sources of funding support, such as scholarships or
12 awards open only to students attending that school, while seven (41%) guides include region-specific
13 funding resources, such as local or state scholarship programs. Eleven guides (65%) incorporate print or
14
15 electronic books from the library's collection into their resource suggestions.
16
17
18
19

20
21 Only five guides (29%) offer instructional content (funding-related guidance, advice, or explanatory
22 information) in addition to linked resources, with the remaining twelve (71%) limited to lists and
23 descriptions of resources. Instructional content includes text, videos, and downloadable handouts on
24
25 funding types, scholarship scams, application tips, responsible borrowing, and the loan repayment
26
27 process. One guide includes instructions for a first-year experience course assignment that asks students
28
29 to identify relevant scholarships using guide resources.
30
31
32
33
34

35
36 Only two guides (12%) indicate that in-person funding support is offered at the library. These two
37 guides are hosted by the same institution, the University of Washington, which offers a library-based
38
39 'Graduate Funding Information Service' that provides one-on-one consultations as well as funding
40 presentations and workshops. However, eleven guides (65%) include links to their institution's financial
41
42 aid office, with seven (41%) also linking to other campus funding services, such as fellowships offices or
43
44 research funding offices.
45
46
47
48
49

50 51 **Discussion**

52
53 More than forty percent of surveyed institutions maintain some form of an online guide to
54
55 educational funding, suggesting an emerging trend among academic libraries despite the relatively few
56
57
58
59
60

1
2
3 reports of funding support in the library literature. This trend appears strongest at large, public
4
5 universities with a research focus. Sampled institutions with funding guides have larger mean student
6
7 populations, are more often publicly controlled, and are more often classified as doctoral universities
8
9 than those without guides.
10

11
12
13 Although undoubtedly a direct consequence of the affordability issues experienced by students,
14
15 libraries' growing interest in student engagement and success may also be contributing to the popularity
16
17 of funding guides. The academic library, historically focused on curricular and research needs, has come
18
19 under increasing pressure to further institutional goals around student persistence (ACRL Research
20
21 Planning and Review Committee, 2014; Mezick, 2007; Soria et al., 2013). Several guides in this study are
22
23 maintained by librarians in positions dedicated to outreach, engagement, or the student experience,
24
25 roles designed to make campus contributions beyond traditional subject specialist support (Angell,
26
27 2018). Now that "recruitment and retention has become everyone's responsibility" (Joe, 2016, p. 199),
28
29 educational funding support may emerge as a natural fit for academic libraries looking to play a
30
31 demonstrable role in broader administrative outcomes.
32
33
34
35

36
37 Despite the existence of guides at a significant minority of the institutions examined, it is unclear
38
39 how many students find and use them. Future studies may offer detailed data on student usage of
40
41 guides, particularly as libraries utilizing the LibGuides platform often make view counts of their guides
42
43 publicly available. However, the inconsistent titling and labeling of guides raises concern that
44
45 discoverability may be limited. The name and descriptive labels of a guide are particularly important
46
47 accessibility features because online library guides are often already difficult for students to locate
48
49 (Reese and McCain, 2017). Less than half of the guides studied bear tags or subject labels. None of the
50
51 subject labels have an obvious relationship to funding, and only four of the six tagged guides utilize
52
53 relevant terms such as "funding," "scholarships," "grants," "loans," or "financial aid."
54
55
56
57
58
59
60

1
2
3 Guide titles were often similarly unhelpful in highlighting funding content, primarily because
4 approximately half of the guides were not focused exclusively on funding topics. Four of these guides
5 include funding information within guides on financial literacy, and their titles, such as “Financial
6 Fitness” and “Personal Finance,” at least hint at the possibility of providing information on obtaining
7 educational funding. However, the titles of broader guides, such as “Reference Web Sites,” “College
8 Success,” and “New Student Care Package,” do little to suggest the availability of funding information.
9
10 Combining funding with other topics creates additional discovery pathways for students, but without
11 clear indicators of content, it may also obscure guides from users looking expressly for funding
12 information and most in need of it.
13
14
15
16
17
18
19
20
21
22
23

24 Many funding guides within the sample are far from comprehensive, which may be an additional
25 consequence of the fact that funding is often housed within a broader guide rather than in a guide of its
26 own. Only three of the seventeen guides cover three or more funding topics. Five guides are limited
27 entirely to the single topic of financial aid and student loans. This lack of breadth in funding guides is
28 misaligned with the literature on meeting students’ financial needs, which suggests that providing a
29 ‘hub’ or ‘one-stop-shop’ for affordability concerns is a promising strategy (Sullivan et al., 2018). Some
30 students have directly expressed their frustration with the lack of a single campus location for
31 discovering funding opportunities and suggested that a library could act as a centralized resource
32 (Forbes et al., 2017). These students proposed that their library’s online funding guide, which was
33 limited to research funding, be broadened to include scholarships and travel grants (Forbes et al., 2017).
34 They identified the library as a central campus service point, considering it an ideal host for collaborative
35 support services on account of its cross-disciplinary nature (Forbes et al., 2017).
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

52 The absence of emergency resources from all but one guide was notable given that growing food
53 insecurity and homelessness among students has been well documented in the popular media (Jones,
54
55
56
57
58
59
60

1
2
3 2019; Spencer, 2020). This omission is especially glaring within a sample drawn from the Pacific
4
5 Northwest, where rates of overall homelessness and unsheltered homelessness are particularly high
6
7 (Frohlich, 2019). For example, although none of the community college library funding guides studied
8
9 address emergency resources, in Washington, “nearly 1 in 5 [community college students] said they
10
11 were homeless and had to sleep outside, in a car or at a shelter. Furthermore, more than 40% went
12
13 hungry or couldn’t afford to buy nutritious food” (Furfaro, 2020, para. 2). More than half of Oregon’s
14
15 community college students similarly reported housing insecurity, with more than 40% experiencing
16
17 food insecurity (The Hope Center for College, Community, and Justice, 2020).
18
19
20
21

22 Subscription funding databases are few and far between, with most guides combining free
23
24 electronic resources with materials from the institution’s book collections. Paid resources that are
25
26 included by the studied guides — GrantForward, Grant Station, and the Foundation Directory — all
27
28 focus heavily on research or organizational funding rather than scholarships or other aid aimed at
29
30 education costs (“Foundation Directory Online”, n.d.; “GrantForward Search Engine”, n.d.;
31
32 “GrantStation”, n.d.). That said, student-focused funding databases offering institutional subscriptions
33
34 are relatively new to the market — ScholarshipUniverse, which claims to be the first such database to
35
36 vet and curate scholarship opportunities, was only introduced in 2018 after adaptation from an internal
37
38 product developed at the University of Arizona (Schaffhauser, 2018; “ScholarshipUniverse”, n.d.).
39
40
41
42

43 Only a handful of guides (29%) include instructional content, defined here as content offering
44
45 funding-related guidance, advice, or information beyond a listing or description of relevant resources. As
46
47 such, most guides are simple pathfinders to resources with accompanying descriptions. Although
48
49 undoubtedly useful, libraries should consider whether guides of this type are fully meeting student
50
51 needs around the complex topic of educational funding. Students are more likely to seek out library
52
53 research guides when they are investigating a topic new to them or have become confused by attempts
54
55
56
57
58
59
60

1
2
3 to use other resources (Insua, 2018; Ouellette, 2011). Including some form of instruction within guides
4 makes them more accessible to users unfamiliar with educational funding options who may need to
5
6 know not only what search tools are available, but also how to approach the search process, evaluate
7
8 potential opportunities, and make decisions about resources they are offered.
9
10

11
12
13 Moreover, the inclusion of instructional content, whether librarian-created or from librarian-vetted
14 sources, may go some way towards addressing the worry librarians have reported when offering
15 services that could directly impact students' finances (Joe, 2016; Reiter and Ford, 2019). Tips on
16 recognizing and avoiding scholarship scams, for instance, or institution-approved information on what
17 students can expect from the loan repayment process may help to ensure that students absorb
18 information from linked resources with the relevant context in mind and prepare them to evaluate
19 funding information they obtain through other means appropriately.
20
21
22
23
24
25
26
27
28
29

30 Finally, although libraries have reported successful funding-related programming and instruction
31 (Roggenkamp, 2014) and students have asked libraries to provide programming related to the funding
32 application process (Forbes et al., 2017), only one library appears to have moved beyond online guide
33 support to provide additional funding services. The University of Washington's two funding guides direct
34 users to a library-based service that offers consultations and workshops. However, even that service is
35 limited specifically to graduate students rather than open to the entire campus population ("Graduate
36 Funding Information Service", n.d.). As many guides refer students to their institution's financial aid
37 office or other funding-related offices, this may be the result of a deliberate decision not to duplicate
38 efforts being made elsewhere on campus. Future research investigating the relationship between a
39 library's funding guide and the online information and in-person services proffered by a financial aid or
40 other office may provide insight into how funding support is distributed across a single institution and
41 pinpoint service or programming gaps that academic libraries can fill. Nevertheless, given the library's
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 position at the crossroads of academic affairs and student services, (Nichols Hess et al., 2015), the
4 expansion of funding support beyond online guides presents promising opportunities for building
5
6 collaboration with campus partners and channeling library expertise to benefit students struggling with
7
8 higher education affordability.
9
10

11 12 13 14 **Conclusion**

15
16 This study reveals that despite low visibility in library literature, support for students seeking
17
18 educational funding opportunities is provided by many academic libraries in the form of research guides.
19
20 Online guides are relatively easy to create and thus present a valuable opportunity to utilize traditional
21
22 library expertise to further institutional goals around student success in an environment rife with
23
24 affordability concerns. However, careful consideration of guide features can enhance the ability of these
25
26 tools to contribute meaningfully to students' funding efforts. Given that online guides are often difficult
27
28 to locate, guide titles, tags, and labels may be key to students finding and using them to identify the
29
30 funding opportunities they need. Designing a guide as a comprehensive hub for both funding resources
31
32 and funding information in the form of instructional content may help to demystify a complex topic that
33
34 directly impacts students' ability to participate in higher education. Future research focused on how
35
36 students use funding guides and the funding-related support that would be most valuable to them will
37
38 provide additional recommendations for guide best practices. It may also reveal new channels through
39
40 which academic libraries can support students struggling to afford their education.
41
42
43
44
45
46
47

48 **References**

49
50
51 ACRL Research Planning and Review Committee. (2014), "Top trends in academic libraries: A review of
52
53 the trends and issues affecting academic libraries in higher education", *College & Research*
54
55 *Libraries News*, Vol. 75 No. 6, pp. 294–302.
56
57
58
59
60

- 1
2
3 Almeida, N. and Tidal, J. (2017), "Mixed methods not mixed messages: improving LibGuides with student
4 usability data", *Evidence Based Library and Information Practice*, Vol. 12 No. 4, p. 62.
5
6
7 Andrade R. R. and Kollen C. E. (2012), "Using needs assessment to develop research and grant support
8 services", in Woodsworth, A. and Penniman, W. (Ed.), *Advances in Librarianship (Advances in*
9 *Librarianship, Vol. 35)*, Emerald Group Publishing Limited, Bingley, pp. 83–111.
10
11
12
13
14 Angell, K. (2018). "An exploration of academic librarian positions dedicated to serving first year college
15 students", *Collaborative Librarianship*, Vol. 10 No. 1, available at:
16
17 <https://digitalcommons.du.edu/collaborativelibrarianship/vol10/iss1/5> (accessed 5 March
18 2020).
19
20
21
22
23 Angell, K. and Price, C.E. (2019), "Creative campus partnerships for holistic student support", Poster
24 presented at the LACUNY Institute, Long Island City, NY, 3 May, available at:
25
26 <https://doi.org/10.7916/d8-4mjc-3n88> (accessed 29 February 2020).
27
28
29
30 "Arrupe College: Financial Aid - Scholarships". (n.d.). *Research Guides, University Libraries, Loyola*
31 *University College*, available at: [//libguides.luc.edu/arrupe/scholarships](http://libguides.luc.edu/arrupe/scholarships) (accessed 22 June 2020).
32
33
34 Broton, K. and Goldrick-Rab, S. (2016), "The dark side of college (un)affordability: food and housing
35 insecurity in higher education", *Change: The Magazine of Higher Learning*, Vol. 48 No. 1, pp. 16–
36 25.
37
38
39
40
41 Comeaux, D., Li, K.K. and Pavy, J.A. (2019), "Getting e-books into courses: how libraries can partner with
42 faculty to ease the textbook affordability crisis", *Charleston Conference Proceedings*, presented
43 at the Charleston Conference, available at: <https://doi.org/10.5703/1288284317027>.
44
45
46
47
48 Cooper, M. (2010), "Student support services at community colleges: a strategy for increasing student
49 persistence and attainment", *Conference Papers*, presented at the White House Summit on
50 Community Colleges, American Association of Community Colleges, Washington, DC, pp. 1–8.
51
52
53
54
55
56
57
58
59
60

- 1
2
3 Dagenais Brown, J. (2014), "Citation searching for tenure and promotion: an overview of issues and
4
5 tools", *Reference Services Review*, Vol. 42 No. 1, pp. 70–89.
6
7
8 Dawes, T.A. (2013), "Libraries, ACRL, and financial literacy: Helping students make sound decisions",
9
10 *College & Research Libraries News*, Vol. 74 No. 9, pp. 466–467.
11
12 Dowd, A.C., Pak, J.H. and Bensimon, E.M. (2013), "The role of institutional agents in promoting transfer
13
14 access", *Education Policy Analysis Archives/Archivos Analíticos de Políticas Educativas*, Vol. 21
15
16 No. 15, pp. 1–39.
17
18
19 Downing, K. (2010), "Show me the money! The academic library's role in the art of grant-seeking on
20
21 campus and in the community", *14th National Conference Papers*, presented at the ACRL 14th
22
23 National Conference, American Library Association, Seattle, WA, available at:
24
25 <http://www.ala.org/acrl/sites/ala.org.acrl/files/content/conferences/confsandpreconfs/national>
26
27 [/seattle/papers/110.pdf](http://www.ala.org/acrl/sites/ala.org.acrl/files/content/conferences/confsandpreconfs/national/seattle/papers/110.pdf) (accessed 29 February 2020).
28
29
30 van Dyk, G. (2015), "Finding religion: an analysis of theology LibGuides", *Theological Librarianship*, Vol. 8
31
32 No. 2, pp. 37–45.
33
34
35 Eichelberger, B., Mattioli, H. and Foxhoven, R. (2017), "Uncovering barriers to financial capability:
36
37 underrepresented students' access to financial resources", *Journal of Student Financial Aid*, Vol.
38
39 47, available at: <https://ir.library.louisville.edu/jsfa/vol47/iss3/5/>.
40
41
42 Evelhoch, Z. (2016), "Mobile web site ease of use: an analysis of Orbis Cascade Alliance member web
43
44 sites", *Journal of Web Librarianship*, Vol. 10 No. 2, pp. 101–123.
45
46 "FIC Research Guides/Bibliographies: Scholarships & Financial Aid". (n.d.). *Raynor Memorial Libraries*,
47
48 *Marquette University*, available at: <https://libguides.marquette.edu/c.php?g=36702&p=233192>
49
50 (accessed 22 June 2020).
51
52
53 Florida Virtual Campus. (2019), *2018 Student Textbook and Course Materials Survey: Results and*
54
55 *Findings*, Survey, available at: <https://dlss.flvc.org/colleges-and-universities/research/textbooks>.
56
57
58
59
60

1
2
3 Forbes, C., Schlesselman-Tarango, G. and Keeran, P. (2017), "Expanding support for graduate students:
4 library workshops on research funding opportunities", *College & Research Libraries*, Vol. 78 No.
5 3, pp. 297–313.
6
7

8
9
10 "Foundation Directory Online". (n.d.). *Foundation Directory Online*, available at:
11 <https://fconline.foundationcenter.org/> (accessed 5 March 2020).
12
13

14 Frohlich, T.C. (2019), "California tops list of states with the most unsheltered homeless people", *USA*
15 *TODAY*, 9 November, available at: [https://247wallst.com/special-report/2019/11/06/states-](https://247wallst.com/special-report/2019/11/06/states-with-the-most-unsheltered-homeless-people-3/)
16 [with-the-most-unsheltered-homeless-people-3/](https://247wallst.com/special-report/2019/11/06/states-with-the-most-unsheltered-homeless-people-3/) (accessed 5 March 2020).
17
18

19
20
21 Furay, J. (2018), "Performance review: online research guides for theater students", *Reference Services*
22 *Review*, Vol. 46 No. 1, pp. 91–109.
23
24

25
26 Furfaro, H. (2020), "About 1 in 5 Washington community-college students were homeless last year", *The*
27 *Seattle Times*, 26 February, available at: [https://www.seattletimes.com/education-lab/about-](https://www.seattletimes.com/education-lab/about-one-in-five-washington-community-college-students-were-homeless-last-year/)
28 [one-in-five-washington-community-college-students-were-homeless-last-year/](https://www.seattletimes.com/education-lab/about-one-in-five-washington-community-college-students-were-homeless-last-year/) (accessed 29
29
30
31
32
33 February 2020).

34
35 "Graduate Funding Information Service". (n.d.). *University of Washington Libraries*, available at:
36 <https://www.lib.washington.edu/commons/services/gfis> (accessed 5 March 2020).
37
38

39
40 "GrantForward Search Engine". (n.d.). *GrantForward*, available at: <https://www.grantforward.com/index>
41 (accessed 5 March 2020).
42

43
44 "GrantStation". (n.d.). *GrantStation*, available at: <https://grantstation.com> (accessed 5 March 2020).
45

46
47 "Grants & Scholarships". (n.d.). *Guides, Georgetown University Library*, available at:
48 <https://guides.library.georgetown.edu/c.php?g=75628&p=489117> (accessed 22 June 2020).
49

50
51 Hege, A., Stephenson, T., Pennell, M., Revlett, B., VanMeter, C., Stahl, D., Oo, K., et al. (2020), "College
52 food insecurity: implications on student success and applications for future practice", *Journal of*
53 *Student Affairs Research and Practice*, pp. 1–18.
54
55
56
57
58
59
60

- 1
2
3 Hintz, K., Farrar, P., Eshghi, S., Sobol, B., Naslund, J.-A., Lee, T., Stephens, T., et al. (2010), "Letting
4
5 students take the lead: a user-centred approach to evaluating subject guides", *Evidence Based*
6
7 *Library and Information Practice*, Vol. 5 No. 4, p. 39.
8
9
- 10 Horton, J.J. (2017), "An analysis of academic library 3d printing LibGuides", *Internet Reference Services*
11
12 *Quarterly*, Vol. 22 No. 2–3, pp. 123–131.
13
- 14 Indiana University Center for Postsecondary Research. (n.d.). "Carnegie Classifications", *Carnegie*
15
16 *Classification of Institutions of Higher Education*, available at:
17
18 <https://carnegieclassifications.iu.edu/> (accessed 26 February 2020).
19
20
- 21 Insua, G.M. (2018), "Framing first-year writing course guides: a content analysis", *Reference Services*
22
23 *Review*, Vol. 46 No. 4, pp. 500–512.
24
- 25 Jackson, R. and Stacy-Bates, K.K. (2016), "The enduring landscape of online subject research guides",
26
27 *Reference & User Services Quarterly*, Vol. 55 No. 3, pp. 219–229.
28
29
- 30 Joe, J.W. (2016), "Quick tip guides on student financial aid", in Smallwood, C. (Ed.), *The Library's Role in*
31
32 *Supporting Financial Literacy for Patrons*, Rowman & Littlefield, Lanham, MD, pp. 199–206.
33
- 34 Jones, C. (2019), "Homeless in college: students sleep in cars, on couches when they have nowhere else
35
36 to go", *USA TODAY*, 30 December, available at:
37
38 [https://www.usatoday.com/story/money/2019/06/10/homelessness-among-college-students-](https://www.usatoday.com/story/money/2019/06/10/homelessness-among-college-students-growing-crisis/3747117002/)
39
40 [growing-crisis/3747117002/](https://www.usatoday.com/story/money/2019/06/10/homelessness-among-college-students-growing-crisis/3747117002/) (accessed 5 March 2020).
41
42
- 43 Kafka, A.C. (2019), "Why more colleges are teaching financial wellness", *The Chronicle of Higher*
44
45 *Education*, 2 December, available at: [https://www.chronicle.com/article/Why-More-Colleges-](https://www.chronicle.com/article/Why-More-Colleges-Are-Teaching/247640)
46
47 [Are-Teaching/247640](https://www.chronicle.com/article/Why-More-Colleges-Are-Teaching/247640) (accessed 26 February 2020).
48
49
- 50 Kirshstein, R.J. (2012), *Not Your Mother's College Affordability Crisis*, Issue Brief, Delta Cost Project at
51
52 American Institutes for Research, available at: <https://eric.ed.gov/?id=ED536127> (accessed 19
53
54 May 2020).
55
56
57
58
59
60

- 1
2
3 Klepfer, K., Fletcher, C., Cornett, A. and Webster, J. (2019), *Student Financial Wellness Survey Report:*
4 *Fall 2018 Implementation*, Trellis Company, available at: [https://www.trelliscompany.org/wp-](https://www.trelliscompany.org/wp-content/uploads/2019/06/Fall-2018-SFWS-Report.pdf)
5 [content/uploads/2019/06/Fall-2018-SFWS-Report.pdf](https://www.trelliscompany.org/wp-content/uploads/2019/06/Fall-2018-SFWS-Report.pdf).
6
7
8
9
10 Linares, R. and Johnson, A. (2016), "Comparing apples to apples oranges: an exploration of the use of
11 LibGuides in ARL libraries", *The Southeastern Librarian*, Vol. 64 No. 1, available at:
12 <https://digitalcommons.kennesaw.edu/seln/vol64/iss1/16>.
13
14
15
16
17 Ma, J., Baum, S., Pender, M. and Libassi, C. (n.d.). *Trends in College Pricing 2019*, No. 01469–962, College
18 Board, New York, available at: <https://research.collegeboard.org/trends/college-pricing>
19 (accessed 26 February 2020).
20
21
22
23 Means, M.L. (2000), "The research funding service: a model for expanded library services", *Bulletin of*
24 *the Medical Library Association*, Vol. 88 No. 2, pp. 178–186.
25
26
27
28 "Members". (n.d.). *Orbis Cascade Alliance*, available at: <https://www.orbiscascade.org/member/>
29 (accessed 26 February 2020).
30
31
32
33 Mezick, E.M. (2007), "Return on investment: libraries and student retention", *The Journal of Academic*
34 *Librarianship*, Vol. 33 No. 5, pp. 561–566.
35
36
37
38 Mintz, S. (n.d.). "The 8 steps institutions need to take to improve student success", *Higher Ed Gamma*,
39 Inside Higher Ed, available at: [https://www.insidehighered.com/blogs/higher-ed-gamma/8-](https://www.insidehighered.com/blogs/higher-ed-gamma/8-steps-institutions-need-take-improve-student-success)
40 [steps-institutions-need-take-improve-student-success](https://www.insidehighered.com/blogs/higher-ed-gamma/8-steps-institutions-need-take-improve-student-success) (accessed 26 February 2020).
41
42
43
44 Mitchell, M., Leachman, M. and Saenz, M. (2019), *State Higher Education Funding Cuts Have Pushed*
45 *Costs to Students, Worsened Inequality*, Center on Budget and Policy Priorities, available at:
46 [https://www.cbpp.org/research/state-budget-and-tax/state-higher-education-funding-cuts-](https://www.cbpp.org/research/state-budget-and-tax/state-higher-education-funding-cuts-have-pushed-costs-to-students)
47 [have-pushed-costs-to-students](https://www.cbpp.org/research/state-budget-and-tax/state-higher-education-funding-cuts-have-pushed-costs-to-students) (accessed 26 February 2020).
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 Nichols Hess, A., Greer, K., Lombardo, S.V. and Lim, A. (2015), "Books, bytes, and buildings: the academic
4 library's unique role in improving student success", *Journal of Library Administration*, Vol. 55 No.
5
6 8, pp. 622–638.
7
8

9
10 Okamoto, K. (2013), "Making higher education more affordable, one course reading at a time: academic
11 libraries as key advocates for open access textbooks and educational resources", *CUNY*
12 *Academic Works*, available at: https://academicworks.cuny.edu/jj_pubs/103.
13
14
15

16 Osorio, N.L. (2014), "Content analysis of engineering LibGuides", presented at the 2014 ASEE Annual
17 Conference & Exposition, Indianapolis, Indiana, pp. 24.318.1-24.318.23.
18
19

20
21 Ouellette, D. (2011), "Subject guides in academic libraries: a user-centred study of uses and
22 perceptions", *Canadian Journal of Information and Library Science*, Vol. 35 No. 4, pp. 436–451.
23
24

25 "Overview of the Alliance". (n.d.). *Orbis Cascade Alliance*, available at:

26
27 <https://www.orbiscascade.org/overview-of-the-alliance/> (accessed 26 February 2020).
28
29

30 Pendell, K. and Armstrong, A. (2014), "Psychology guides and information literacy: the current landscape
31 and a proposed framework for standards-based development", *Reference Services Review*, Vol.
32
33 42 No. 2, pp. 293-304., available at: <https://doi.org/10.1108/RSR-10-2013-0052>.
34
35

36 Peters, E.E., Roberson, A.J. and Voight, M. (2019), *The Cost of Opportunity: Student Stories of College*
37 *Affordability*, Institute for Higher Education Policy, available at:

38
39 [http://www.ihep.org/research/publications/cost-opportunity-student-stories-college-](http://www.ihep.org/research/publications/cost-opportunity-student-stories-college-affordability)
40
41
42
43
44 affordability (accessed 26 February 2020).
45

46 Reese, J.S. and McCain, C. (2017), "Special collections LibGuides: an analysis of uses and accessibility",
47
48 *Practical Academic Librarianship: The International Journal of the SLA*, Vol. 7 No. 1, pp. 1–12.
49

50 Reiter, L. and Ford, B. (2019), "Library support for student financial literacy: a survey of librarians at large
51 academic institutions", *College & Research Libraries*, Vol. 80 No. 5, available at:

52
53
54 <https://doi.org/10.5860/crl.80.5.618>.
55
56
57
58
59

- 1
2
3 Roggenkamp, J. (2014), "Financial literacy and community colleges: how libraries can get involved",
4
5 *College & Research Libraries News*, Vol. 75 No. 3, pp. 142–143.
6
7
8 Salem, J.A. (2017), "Open pathways to student success: academic library partnerships for open
9
10 educational resource and affordable course content creation and adoption", *The Journal of*
11
12 *Academic Librarianship*, Vol. 43 No. 1, pp. 34–38.
13
14 Schaffhauser, B.D. (2018), "CampusLogic opens U Arizona's Scholarship Universe to other schools",
15
16 *Campus Technology*, 5 April, available at:
17
18 [https://campustechnology.com/articles/2018/04/05/campuslogic-opens-u-arizonas-scholarship-](https://campustechnology.com/articles/2018/04/05/campuslogic-opens-u-arizonas-scholarship-universe-to-other-schools.aspx)
19
20 [universe-to-other-schools.aspx](https://campustechnology.com/articles/2018/04/05/campuslogic-opens-u-arizonas-scholarship-universe-to-other-schools.aspx) (accessed 5 March 2020).
21
22
23 "ScholarshipUniverse". (n.d.). *CampusLogic*, available at:
24
25 <https://campuslogic.com/products/scholarshipuniverse/> (accessed 5 March 2020).
26
27
28 Shaulskiy, S., Duckett, K., Kennedy-Phillips, L. and McDaniel, A. (2015), "Exploring differences in college
29
30 student financial wellness by institution type", *Journal of Student Affairs Research and Practice*,
31
32 Vol. 52 No. 3, pp. 250–261.
33
34
35 Sinkinson, C., Alexander, S., Hicks, A. and Kahn, M. (2012), "Guiding design: exposing librarian and
36
37 student mental models of research guides", *portal: Libraries and the Academy*, Vol. 12 No. 1, pp.
38
39 63–84.
40
41
42 Sonsteby, A. and DeJonghe, J. (2013), "Usability testing, user-centered design, and LibGuides subject
43
44 guides: a case study", *Journal of Web Librarianship*, Vol. 7 No. 1, pp. 83–94.
45
46
47 Soria, K.M., Fransen, J. and Nackerud, S. (2013), "Library use and undergraduate student outcomes: new
48
49 evidence for students' retention and academic success", *portal: Libraries and the Academy*, Vol.
50
51 13 No. 2, pp. 147–164.
52
53
54
55
56
57
58
59
60

- 1
2
3 Spencer, K. (2020), "In College and Homeless", *The New York Times*, 20 February, available at:
4
5 <https://www.nytimes.com/2020/02/20/education/learning/college-homeless-students.html>
6
7 (accessed 5 March 2020).
8
9
10 Suiter, A.M. and Moulaison, H.L. (2015), "Supporting scholars: an analysis of academic library websites'
11 documentation on metrics and impact", *The Journal of Academic Librarianship*, Vol. 41 No. 6, pp.
12 814–820.
13
14
15
16 Sullivan, M., Price, D.V., Fox, L. and Person, A. (2018), *How Community Colleges Address Basic Needs and*
17 *Financial Stability of Low-Income Students to Boost College Completion: Lessons from the*
18 *Working Students Success Network*, Issue Brief, Mathematica Policy Research, Inc., available at:
19
20 <https://eric.ed.gov/?id=ED587422> (accessed 26 February 2020).
21
22
23
24
25 The Hope Center for College, Community, and Justice. (2020), *Oregon community colleges: #realcollege*
26 *survey report*, The Hope Center for College, Community, and Justice, pp. 1–28.
27
28
29
30 Todorinova, L. and Wilkinson, Z.T. (2019), "Closing the loop: students, academic libraries, and textbook
31 affordability", *The Journal of Academic Librarianship*, Vol. 45 No. 3, pp. 268–277.
32
33
34
35 Trawver, K., Broton, K.M., Maguire, J. and Crutchfield, R. (2020), "Researching food and housing
36 insecurity among America's college students: lessons learned and future steps", *Journal of Social*
37 *Distress and Homelessness*, Vol. 29 No. 1, pp. 39–46.
38
39
40
41 U.S. Department of Education. (n.d.). "College affordability and completion: ensuring a pathway to
42 opportunity", *College*, available at: <https://www.ed.gov/college> (accessed 29 February 2020).
43
44
45
46 U.S. Financial Literacy and Education Commission. (2019), *Best Practices for Financial Literacy and*
47 *Education at Institutions of Higher Education*, United States Department of the Treasury, p. 44.
48
49
50 Wu, J., Cai, J., Jin, M. and Dong, K. (2018), "Embedding funding consultation in library services: a co-
51 occurrences network analysis of knowledge flow in scientific funding", *Library Hi Tech*, Vol. 36
52
53
54 No. 3, pp. 378–399.
55
56
57
58
59
60

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

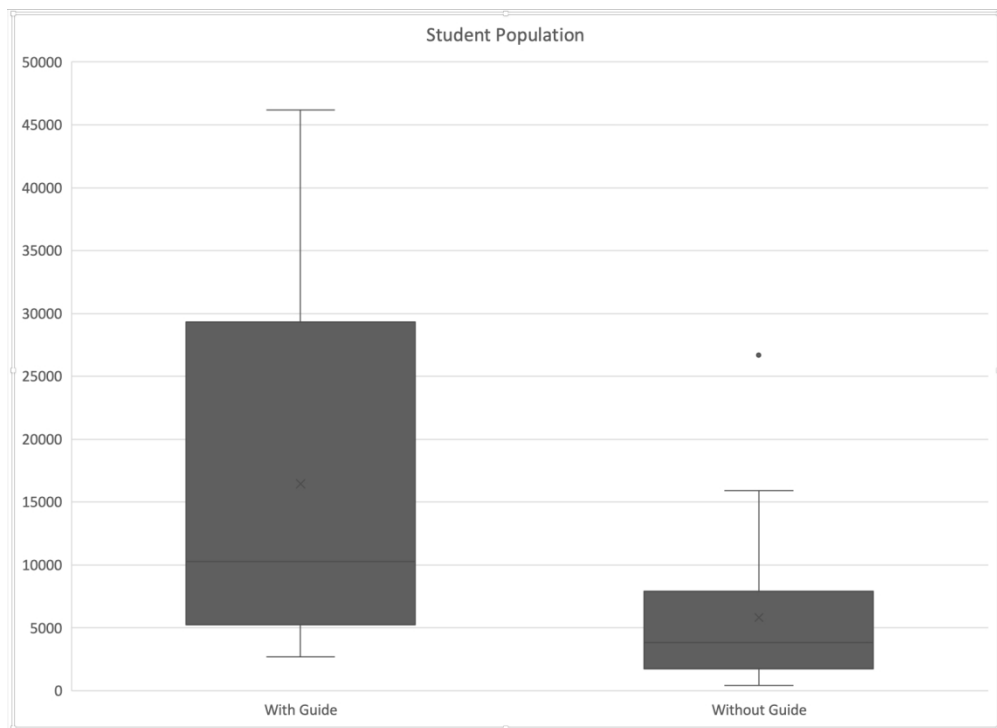


Figure 1. Student populations of sampled institutions

592x429mm (72 x 72 DPI)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

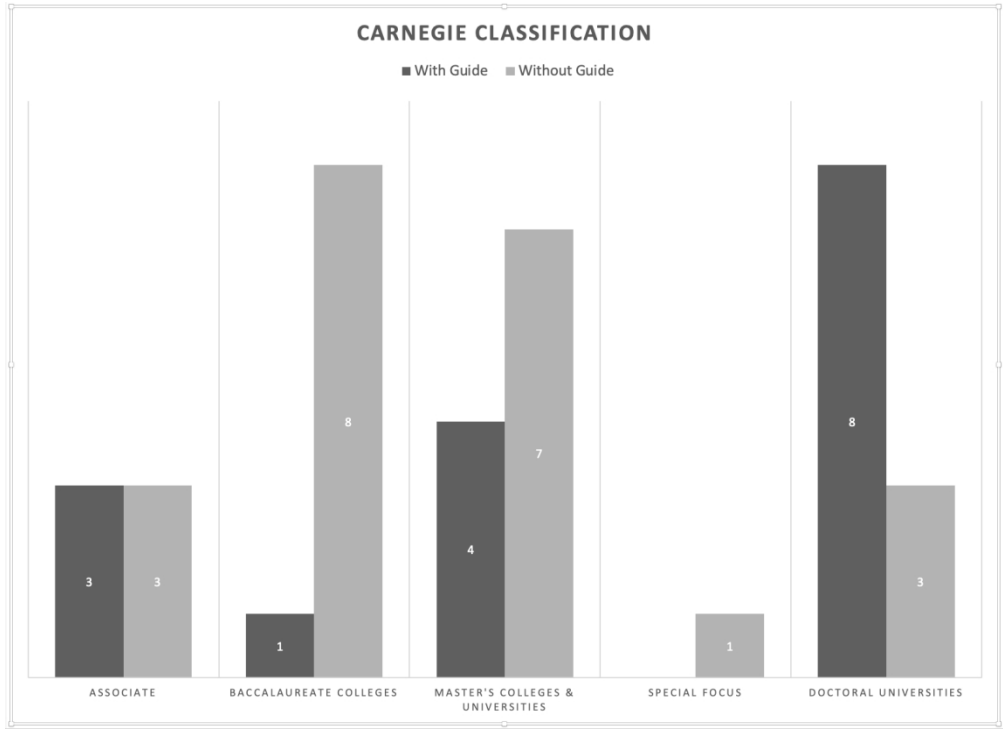


Figure 2. Carnegie classifications of sampled institutions

591x429mm (72 x 72 DPI)

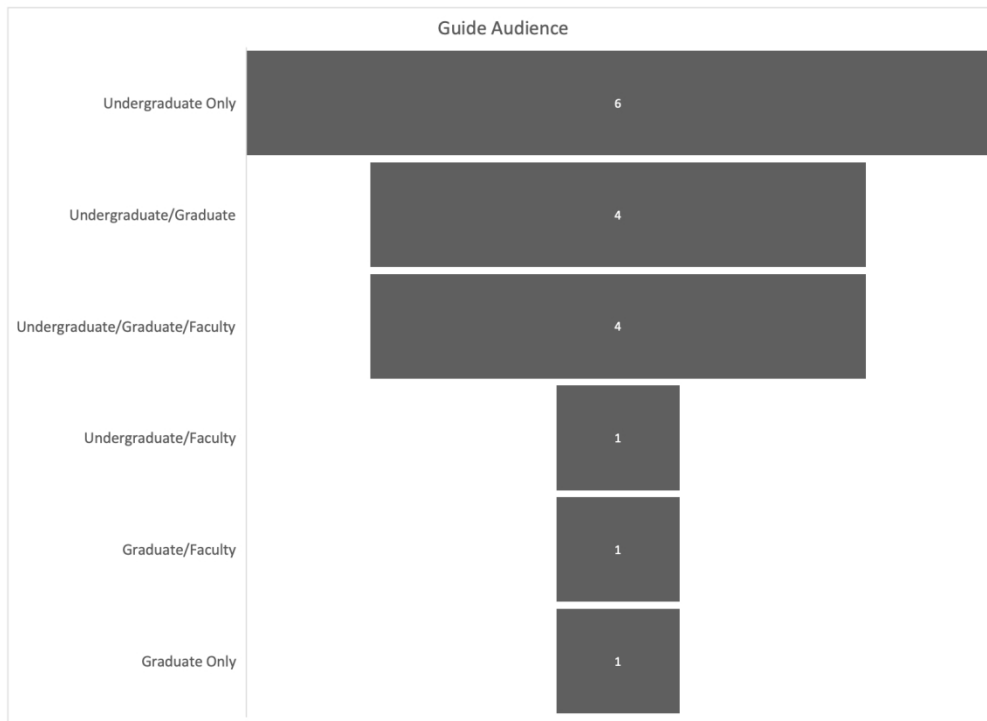


Figure 3. Guide audience types

587x426mm (72 x 72 DPI)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

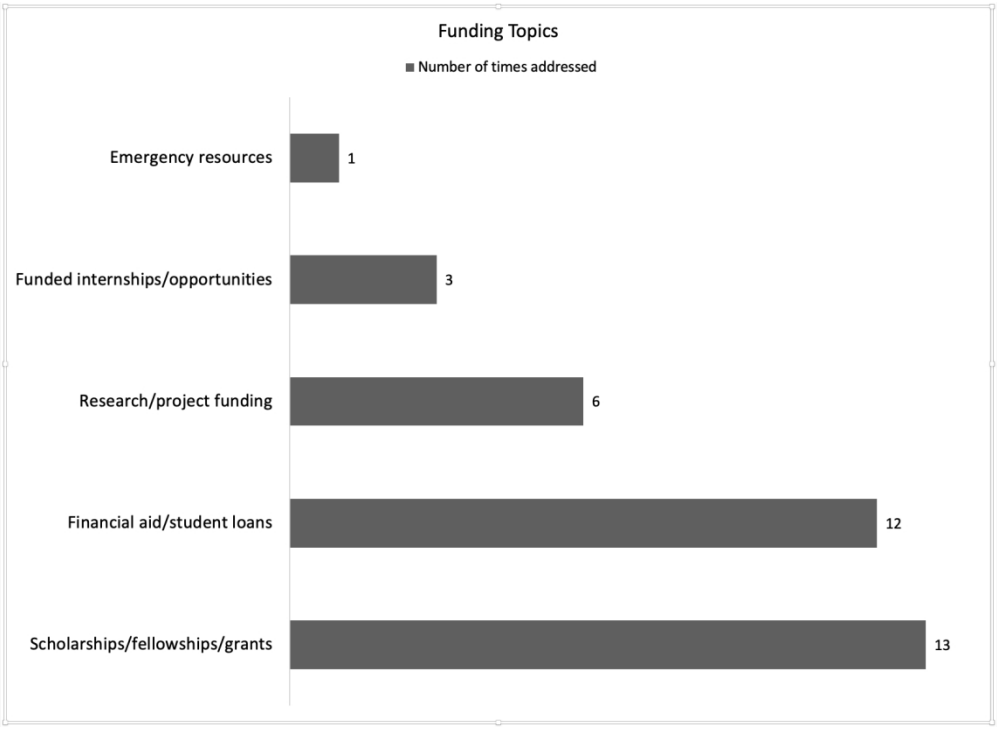


Figure 4. Frequency of guide funding topics

592x429mm (72 x 72 DPI)

Scholarship Database or Search Engine	Guide Occurrences
CareerOne Stop	5
Fast Web	5
Grants.gov	4
College Board's Scholarship Search	2
Duke Research Funding	2
UW Office of Merit Scholarships, Fellowships & Awards	2

Table I. Funding search tools appearing in two or more guides

420x125mm (72 x 72 DPI)