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Using library analytics: putting theory into practice: phase three of the Library Impact Data Project

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@asharman / @hudlib









About the University of Huddersfield

University of HUDDERSFIELD

- 1825: Founded as Huddersfield Scientific and Mechanic Institute
- 1992: Became the University of Huddersfield
- 2003: Patrick Stewart became Chancellor
- 2013: Times Higher Education University of the Year
- 2014: Stage 2 of the Tour de France!
- 2015: top 5 of best working place survey











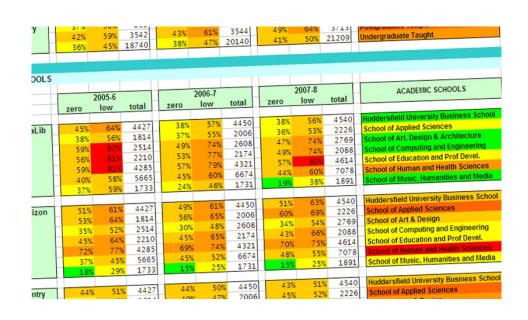
Using Usage Data since 2005...

University of HUDDERSFIELD

...to improve existing services

...to gain insights into user behaviour

...to measure the impact of the library







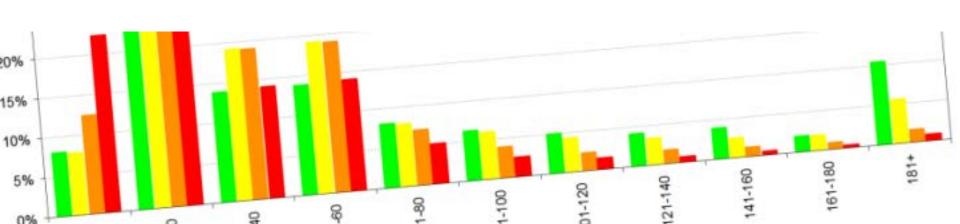




To support the hypothesis that...



"There is a statistically significant correlation across a number of universities between library activity data and student attainment"



Library Impact Data Project 1 Original data requirements

University of **HUDDERSFIELD**

- For each student who graduated in a given year, the following data was required:
 - Final grade achieved
 - Number of books borrowed
 - Number of times e-resources were accessed
 - Number of times each student entered the library, e.g. via a turnstile system that requires identity card access
 - School/Faculty









University of HUDDERSFIELD



0%













Phase I

University of HUDDERSFIELD

Showed a statistical









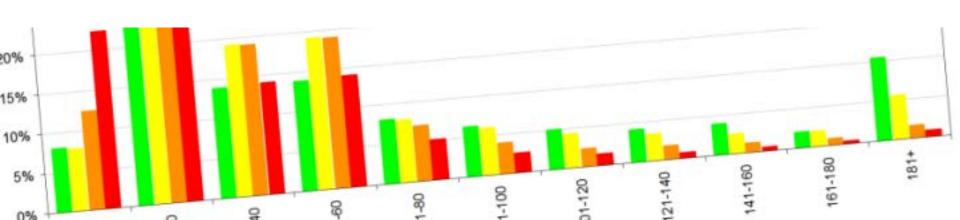






Phase I looked at over 33,000 students across 8 universities

Phase II looked at around 2,000 full time undergraduate students at Huddersfield



Additional data

University of HUDDERSFIELD

- Demographics
- Discipline
- Retention
- On/off campus use
- Breadth and depth of eresource usage
- Entry data
- Correlations for Phase 1











Data analysis

Throughout our analysis, we have followed Cohen (1992) in classifying effect sizes:

- .1 small effect
- .3 medium effect
- .5 large effect (the closer to 1, the bigger the effect)

Ignore plus or minus figures Look for the shading!











Library usage Country of domicile

University of HUDDERSFIELD

Factor	New EU	Old EU	China	Rest of world
Number of items borrowed		113	144	073
Number of library visits		066	098	099
Hours logged into library PC		082		089
Hours logged into e-resources	159		075	
Number of PDF downloads	175	088		
Number of e-resources accessed	104		119	
Number of e-resources accessed 5 or more times	152		074	
Number of e-resources accessed 25 or more times	207	092		
Percentage of usage occurring on-campus			073	

Usage levels Compared to control

Higher

Lower

Control group: UK

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Library usage Aggregated subject groups

University of HUDDERSFIELD

Factor	Science	Computing and engineering	Arts	Humanities	Health
Number of items borrowed	232	337	193		064
Number of library visits		214		113	295
Hours logged into library PC		106		064	147
Hours logged into e-resources			435		
Number of PDF downloads		283	559	138	057
Number of e-resources accessed		281	485		114
Number of e-resources accessed 5 or more times		272	432		
Number of e-resources accessed 25 or more times		157	183	087	147
Percentage of usage occurring on-campus		095			

Usage levels Compared to control

Higher

Lower

Control group: Social science

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Library usage *Retention*

- Looking at one year of data for every student
- Using a cumulative measure of usage for the first two terms of the 2010-11 academic year
- Only looking at people who dropped out in term three
- All the students included in this study were at the university in the first two terms, and they have all had exactly the same opportunity to accumulate usage.







Library usage Retention

University of HUDDERSFIELD

Factor	All FT, PT
	0.70
Number of items borrowed	056
Number of library visits	032
Hours logged into library PC	027
Hours logged into e- resources	060
Number of PDF downloads	051









Number of e-resources accessed

Depth and breadth

University of HUDDERSFIELD

Factor	First /2.i	First /2.ii	First /Third	2.i /2.ii	2.i /Third	2.ii /Third
Number of e-resources accessed	102	243	350	182	184	
Number of e-resources accessed 5 or more times	115	248	363	165	176	
Number of e-resources accessed 25 or more times	147	273	248	121		
Percentage of total usage overnight				0.07		

Grade

First

2.i

2.ii

Third

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Number of e-resources accessed

- Both borrowing books and logging onto electronic resources does not guarantee the item has been read, understood and referenced
- Heavy usage does not equate to high information seeking or academic skills
- Non-use of library resources does not necessarily mean students are using poor quality information









LIDP 3

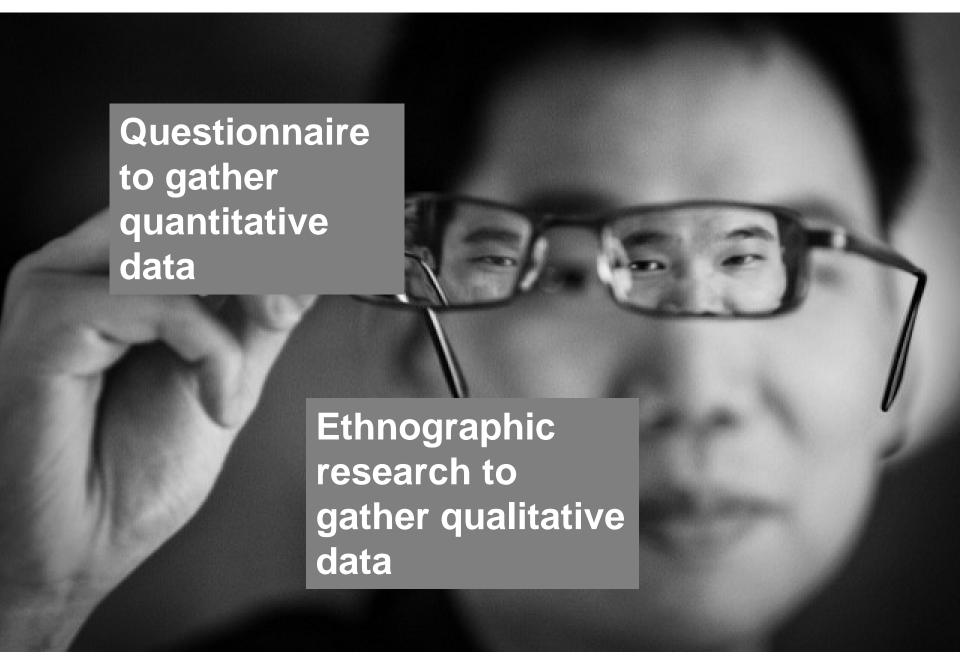
- Make use of data and insights generated from Phase 1&2 to increase library usage amongst those identified as low users
- No one size fits all
- Concentrated on 2 Schools (Art Design and Architecture; Computing and Engineering) and also Chinese/International students











Highlights from the survey



Survey: 372 responses (253 Chinese)

Aimed at ALL students on studying on the International Development Curriculum

Level of study	Responses	Percentages		
Undergraduate	231	62.9%		
Postgraduate Masters	136	37.1%		
	367			



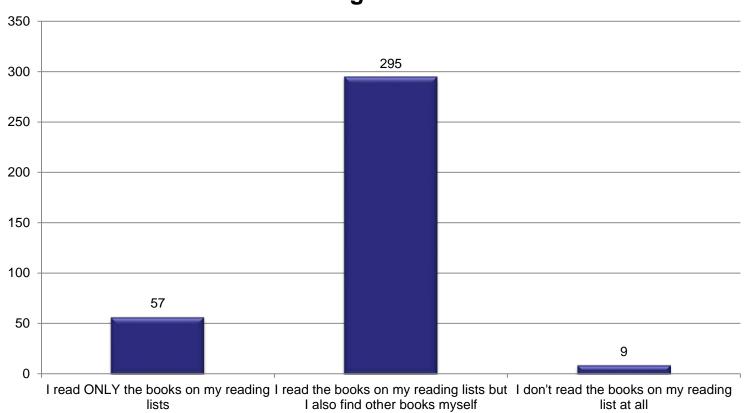




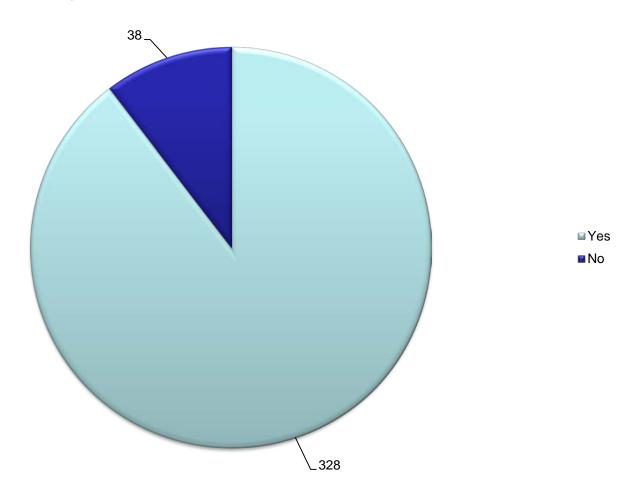




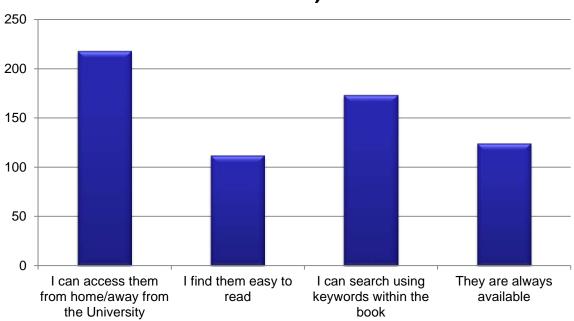
Which of the assignment statements below best describe your actions when working on your assignment?



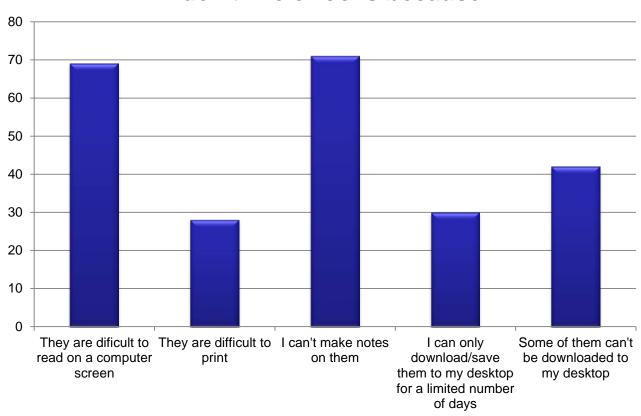
Do you use eBooks (Electronic books)?



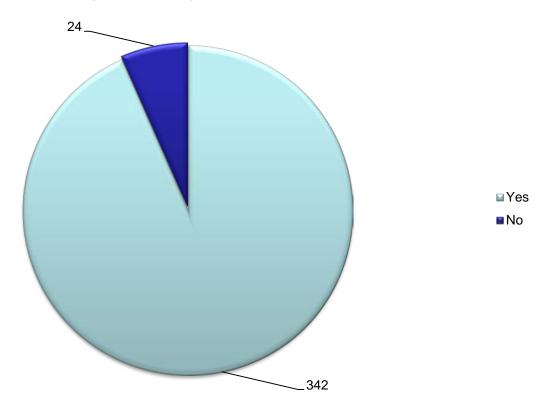
Why do you use eBooks (Electronic books)?



I don't like eBooks because

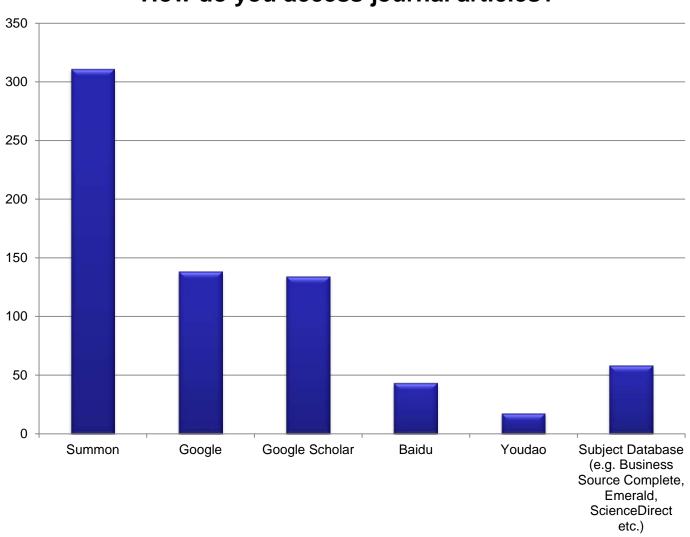


Do you use journal articles?

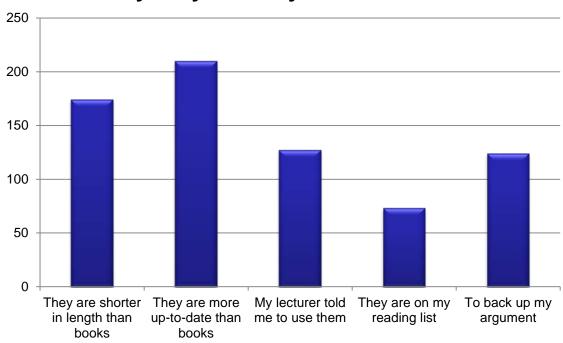


Responses	Undergraduate		Postgraduate Masters		
Yes	208	91.2%	130	97.7%	
No	20	8.8%	3	2.3%	
	228		133		

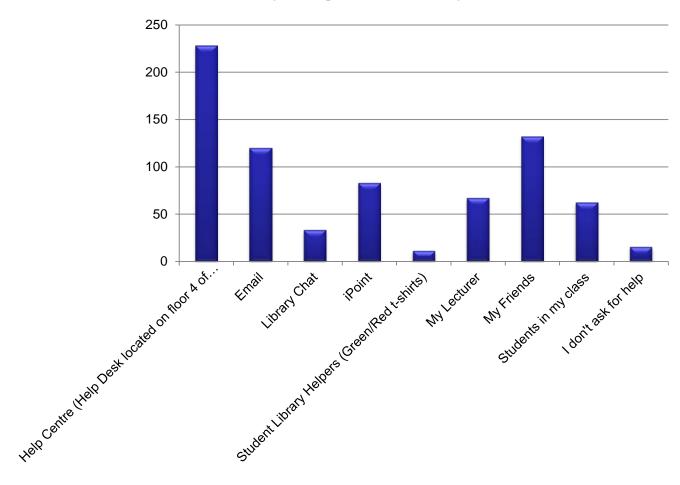
How do you access journal articles?



Why do you use journal articles?



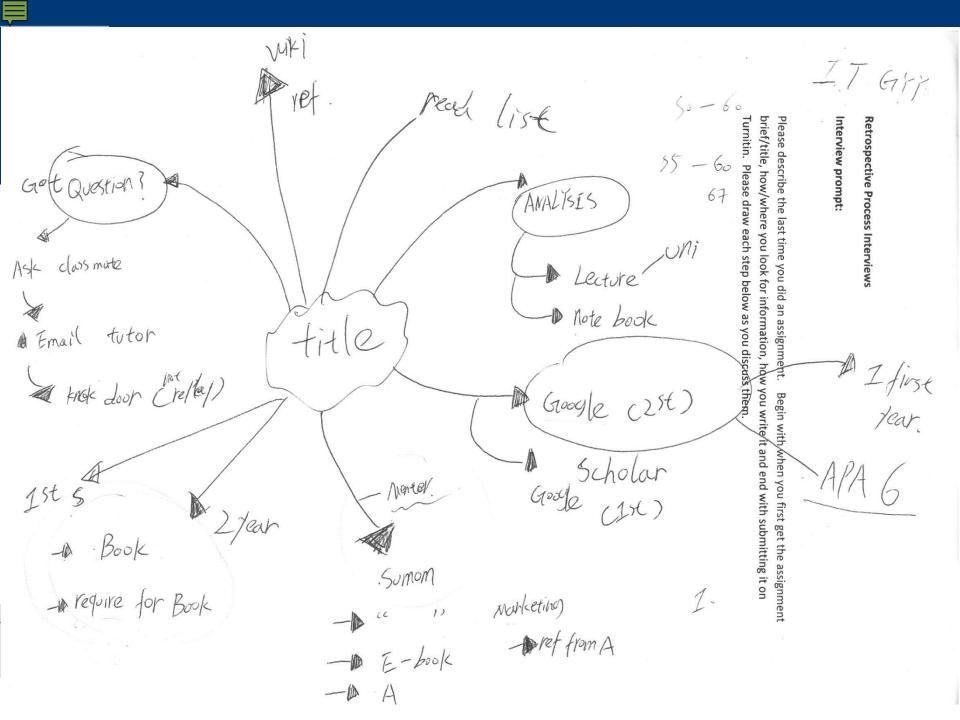
Where do you go for library help?







https://www.flickr.com/photos/gangplankhq/5590138243/



Participant info Mode of study (e.g. PT, FT, UG(PG, TPG):

15+ Yr of study:

Age:

Instructions: You will be given 6 minutes to draw from memory a map of where you go to learn or study (your learning spaces). Every two minutes you will be asked to change the colour of your pen in the following order: 1. Blue. 2. Green. 3. Red.

After the six minutes are completed, please label the features on your map. Please try and be as complete as possible, and don't worry about the quality of the drawing.



Themes established so far...



- No idea of the research help offered by librarians
- Struggle to use Dewey
- Preference for individual working rather than group work
- Working through the night popular for some students
- Positive intervention of the International Learning Development Group
- Critical thinking/reflection new experience









Working with the School of Computing and Engineering









Devised a strategy



https://www.flickr.com/photos/sonnyandsandy/795218818/

Staff are the main gateway to students

Prioritised engagement with staff over students











Comments from Computing Students

We don't see the point (in using x) because we're not told to use them

We've not been told about certain things so we just stick with what we know

Comments from a final year Business Management student

You base your work around what that tutor wants. If they want 2 pages of references then you do 3!

Subject: Can we help save you time?

Dear [name],

Are you spending too much time on fruitless searches? Want to learn how to keep up with your subject area and find information for your research/teaching [amend as appropriate] – without having to find extra time to do it?

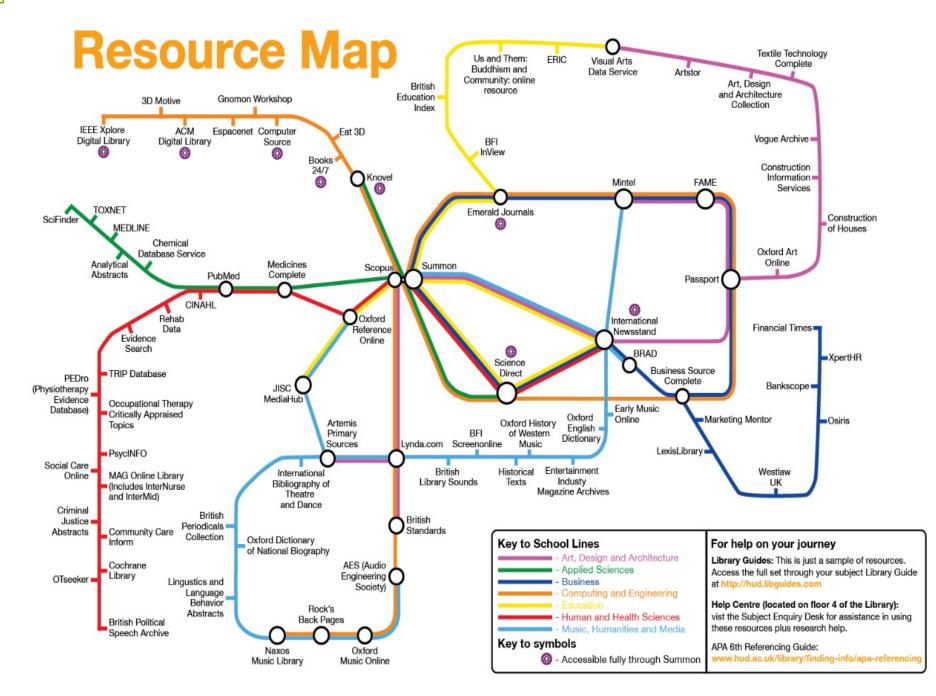
Book a Library Desktop Visit today!

Endnote...Summon...IEEE Xplore...Copyright... MyReading...Social media...Tell us what you want to know!

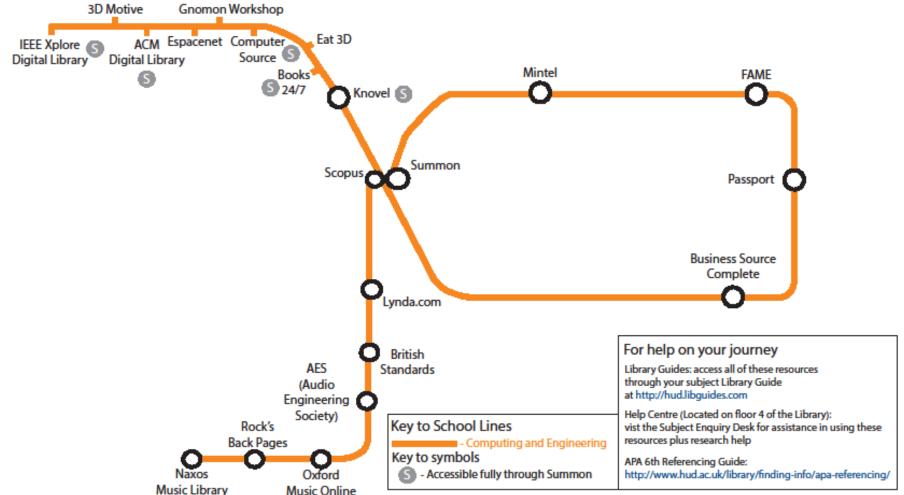
Just tick what you want to know more about on the attached form and send it back to [our own email addresses?], and one of our expert Librarians will [or should this just say "I will"?] come and visit you at your desk to show you some time-saving tips and tricks. It'll take no more than an hour, and we can go into as little or as much detail as you need.

Book a Library Desktop Visit: email [address] and let us know what you want to learn, using the attached form.





Resource Map-Computing and Engineering







Alison Sharman @asharman · Feb 25

Roving with @Julia Stockdale from Content Online & @Lady PGD promoting database IEEE Xplore @HudCompEng @hudlib













and Academic Skills

Want to get ahead? Attend these 30 minute workshops and improve your academic writing, researching and referencing skills.

Monday 24th February (in CW2/01) and Tuesday 25th February (in CW2/04)

Searching Smarter, Searching Faster: Finding information (13.00 - 13.30)

Make Your Examiner Happy: Structure and Stylistic Tips for Final Year (13.30 - 14.00)

The Dissertation Toolkit: Locating and Getting the most out of (14.30 - 15.00)
Academic Journal Articles

Keep Calm and Carry on Referencing with APA: How to reference (15.00 - 15.30) using the American Psychological Association (APA) Version 6

No need to book, just turn up. All sessions in Canalside West.

Future plans











Ask Alumni students

...to actually sit with someone to go through the things I wanted to find on Summon ... People say they haven't got time to sit with the staff well I was going to spend DOUBLE or even TRIPLE the time trying to search for things on my own so I figured it would SAVE me time if I sat with the experts who know how to get the best from the searches and the advanced searches etc. It truly paid off because I was unable to find relatable journals but having a thinking partner who also suggested 'have you thought of this topic or searched for this keyword etc' that really helped me get my First.

Talk to students

University of HUDDERSFIELD

Conduct
ethnographic
interviews with
Computing/
Engineering students



https://www.flickr.com/photos/craiga/17071467/









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School action plans



- Personalised stats/highlights for the School
 - Visits to the library
 - Book purchases
 - Info lit sessions
 - ILL requests
 - Books borrowed
 - Use of online reading lists
- School action plans









The original project

 White, Sue and Stone, Graham (2010) Maximising use of library resources at the University of Huddersfield. <u>Serials</u>, 23 (2). pp. 83-90

LIDP

- Stone, Graham and Ramsden, Bryony (2013) Library Impact Data Project: looking for the link between library usage and student attainment. <u>College</u> <u>and Research Libraries</u>, 74 (6). pp. 546-559
- Stone, Graham and Collins, Ellen (2013) Library usage and demographic characteristics of undergraduate students in a UK university. <u>Performance Measurement and Metrics</u>, 14 (1). pp. 25-35
- Collins, Ellen and Stone, Graham (2014) Understanding patterns of library use among undergraduate students from different disciplines. <u>Evidence</u>
 <u>Based Library and Information Practice</u>, 9 (3)
- Stone, Graham, Sharman, Alison and McGuinn, Kate (2015) Using library impact data to inform student marketing campaigns. <u>Journal of the</u>
 <u>European Association for Health Information and Libraries</u>, 11 (4). pp. 29-32.
- Stone, Graham, Sharman, Alison, Dunn, Penelope and Woods,
 Laura (2015) *Increasing the Impact: Building on the Library Impact Data Project.* Journal of Academic Librarianship, 41 (4). pp. 517-520.

Read more:



Library Analytics bibliography

https://library3.hud.ac.uk/blogs/lidp/projectoutputs/library-analytics-bibliography/

Ethnography

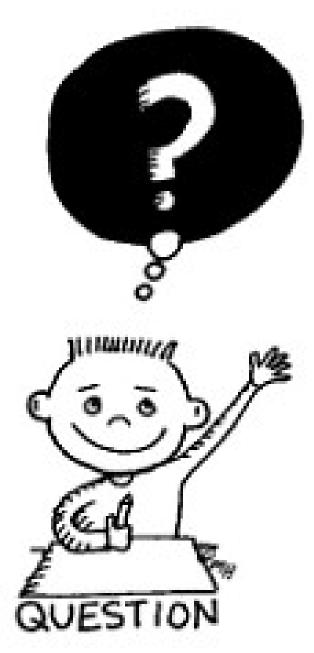
http://uxlib.org/links/











https://www.flickr.com/photos/84568447@N00/2123376519/