L&T:21

Showcase – Stream 1 Stream 2

Nov 17, 2021





Showcase 1: Stream 2

Vince Mitchell Professor and Head of the Marketing Discipline at The University of Sydney Business School



JamBoard

Record your key insights from each speakers' presentations on their Jamboard page –

https://bit.ly/3mGe3fE





Showcase 1

Can we ask our staff and more importantly our students to embrace a paradigm shift in assessment frameworks?

- Cameron Esslemont









Page 5

Question?



Showcase 2

Embedding authentic assessment for foundational business statistics

Anastasios Panagiotelis,Andrey Vasnev & Jessica Tyrrell

......







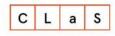
Embedding authentic assessment for foundational business statistics

Why did we re-design the assessment?

What was 'authentic' about the new assessment?

What was the design process? How did we leverage technology for scale?

Student feedback so far?



QBUS5001 Foundation in Data Analytics for Business

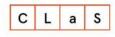
Foundation unit in Masters of Commerce BA specialisation

700 - 1600 average student cohort

Increasing student numbers

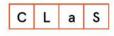
High percentage international students



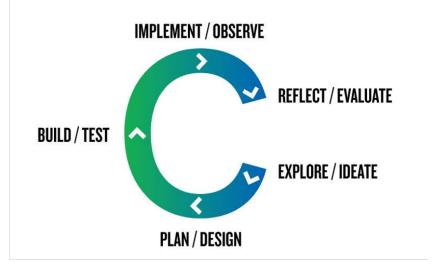


Connected Learning at Scale (CLaS)

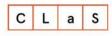




Iterative cycles of development



- Enhanced Canvas site including CLaS visual design for improved navigation.
- Introduction of live Q&A session.
- Embedded authentic assessment, including peer review opportunity and group work.
- Self-paced, interactive Canvas modules with watch and learn videos, interactive diagrams and "check your understanding" interactives.
- In-house quizzes with R-exams algorithmically generated banks.



What students said

"I feel like I'm learning statistics, but not statistical thinking"

- student quote from CLaS co-design workshop

Supporting ULOs

LO1. build a strong quantitative skill set for business decision making; create statistical models for studying relationship amongst business variables; demonstrate proficiency in the use of statistical software for quantitative modelling

LO2. evaluate underlying theories, concepts, assumptions and arguments in business related fields **LO3.** identify problems within real-world constraints and collect data for decision making; manage, analyse, evaluate and use information efficiently and effectively; demonstrate coherent arguments when recommending solutions

LO4. communicate confidently and coherently to a professional standard both orally and in writingLO5. defend data integrity; analyse data and report results professionally and ethically.

Research and guidelines for statistics education consistently highlight the importance of situating statistics learning in real-world contexts and exposing students to real data problems (GAISE, 2016).

Such approaches have been shown to support student development of critical skills including statistical reasoning and data literacy (Brown, 2019; Cummiskey et al., 2020).

What the new assessment looked like

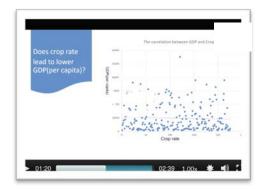
"Main Assignment" worth 25%

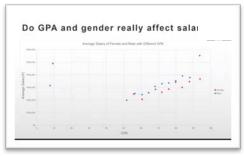
Part 1 Individual component + peer review

Students select a data set, perform analysis and produce a 3-minute video communicating their analysis.

Part 2 group component

Students come up with an interesting question about the data set and submit a 500 word executive summary communicating their analysis and findings.







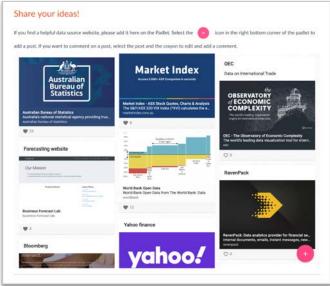
Examples of student assignments

What is 'authentic' about the new assessment?

Authentic assessment aims to replicate the tasks and performance standards typically found in the world of work, and has been found to have a positive impact on student learning, autonomy, motivation, self-regulation and metacognition; abilities highly related to employability.

Villarroel et al. 2018

- Real data
- Student choice
- Real questions and complex problems
- Multi-modal (presentation and report formats)
- Team-based learning
- Peer review



Authentic learning materials with real data + student sharing

Assessment design process

Co-design approach: interdisciplinary team.

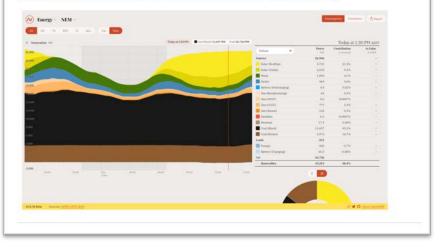
Updated online learning materials with more 'real' data examples.

Introduced Data Communication modules with practical information on sourcing and cleaning real data sets.

Detailed rubrics co-designed by core teaching team and tutors.

Case study two: National Electricity Market data

This site makes Australian energy usage data available and provides an interface for interactively visualising the data. Spend some time exploring the data on electricity usage/ demand in the <u>National Electricity Market</u> *e* (including energy mix).



Authentic learning materials with real data

Leveraging technology to address challenges of scale

Keep It Simple Stupid approach to implementation

Canvas rubrics to support marking and feedback.

Peer review auto-assigned via Canvas.

Canvas groups self-sign-up.

Formative Progress Report ahead of final submission.

Criteria	Rating.														
vola fa Volala Italian	1 gen High Datherber Verlahles and active of exemutement are closed data collected	le defresió Other National et I	rige; Two	2.8 per Distantion Variables are described inst practical	aith anna shuilear	nig. 14 mile	d recorder tod	\$7 ptr Could Variation and/or write of measurement are simply label with no online description.			0.1 pm Paul Vipidility not rearring to form the other main to 's' and 's' infinites				
tera (h scherchiers el Bela Hyr miller exclarite	Lans High Distinction Transformations applied to data in wallion on during set any explored.	0.8 pm Collection Tarohamatheri asafedris dala an aufico escludul. No-essa whereis mai dane.			and provided	e Orgen Godk No tranfo extranto	eratlera mañot te izta er ache					there is clear reason whe			
taria la: Masing n' Data contitu'hy	1 ans High Datherfree Hilling fails or Hills medhility discussed, me	namenting beight the data	0.8 pts Distriction Trust with em				E7 pis Codit Inser proce	correspondence and a	s coalitality are not relevant.	8.5 pts Pase Troot enciral	whering these as to be a delay or	-	By an end discussed, some triange dies is eniscente.		
ana la Spoing 1 Mda	1 pin High Statisction Procedur quests sharing and of a considered par negater's discussion corbus that simply tooling research discussion participation.		Billipte Distlete Flat Presentation: suffere speaking temps, 21 II 47 for many worth or	ion soften from one of the following 10 Specie too hold street onto temps, 20 Sector walk and marks on shife, 20 Sectors (b) describes plate,			speaking for		the following: 2 lands for fait ad starts on elds, 2 bearweils			tree o mers of the hydroxing 12 Speaks too Gab Stow or Steph reach an earth an older. It incorrectly describes place m.			
tera 26 Colecciteg Is lo deta	Type Tage Destruction Description of allots below to accual data. An operative or time consignee may be deter			Des.7	fell pro Derived in the second									regel to 996 allocat gallant of adults to actual sister for 50°s and 4° instead of particle names.	
wia (n Hitodor d' pr enetra gaedicel	1 pri High Distinction A last per information justices is identified provide ranged alast the justified by them builded and the justified by them builded and the justified by the set builded by the set								Investibled that can be embeded using simultantion, one and again price for providing longht about						
texta da Asex labers 1986s	1 pin High Distriction Augs (disks and other set influence) at all in mainscrements	0 A	C.E.phi Distriction Associated by and PDs internation and some important responses			17 pls Could Sent Universities (E.g. will()) Anno Values and Title on Nath provid Territor)			and the transmission matrix was the example \boldsymbol{V} and \boldsymbol{V} out			0.1 pm Past Anno 1970 coli Interfed			
uria la Cogliad allance	1 pm High Distinction Plant pre-soft dampered sat that them online chee instances of held practice in visualization.					rspai intenting of had generated in singularitani jackading dipit met hinkan ne dida alarada, 35 janters in part agitare dan ha 50 remining, 40 parapha									
mia li: Diarriy af R	Tans High Distriction Trace (Therest Space of plats used is analysis, or path spacificate.	18 ph Syllia Tion Ing Alfford Sync of philoso Armadian	ine filtered	6.0 pm Codil Two different Fages of globs are used find these similar of the same volability			g i Malagran erd Samplat af	8.3 ps Pau Suncjuis et sitel	Pass Buth, pluis are of the cares hype brune of 30Parent cardiday.						
lead their map	1 pris NgA Define from Discherzenings of probabilities on discussed in a pr dera travel.	n Hann ann hang of abadets one allowers and had to a segmethold using their is not common helding enginestic				and is the day ing, some eight damant should begin			27 pm Credit No Arconical of Architectropy of provide pro			and texturines that suggests as attemptions			

Rubric example

What students told us

For the main assignment in this unit, you worked with real data – first individually, and then in groups. Do you prefer this type of assessment to a traditional exam or quiz?

70% of surveyed students (n=40) agreed or strongly agreed

"Working this real data motivates me. Also it satisfies my own interest that I can apply techniques in this course to areas I'm interested in"

"I can put what I learned

from QBUS5001 into practice".

"Assignments are preferable to

exams as they are more aligned to a real world task".

"This kind of design ensures the student have truly understand the content of the module, so that we can have a better cooperation with other members". What was the most meaningful or memorable aspect of QBUS5001?

"I find the most meaningful thing is the data visualisation. Because now I'm working in an NGO and I'm using those skills that I learnt in this course to actually visualise our clients' data. And how we write that in our annual report".

Thank you!

The University of Sydney

Question?



JamBoard

Don't Forget to record your key insights from each speakers' presentations on their Jamboard page - <u>https://bit.ly/3mGe3fE</u>





Other sessions on now

See the L &T Forum website for zoom registration links to the next concurrent sessions:

■ 1:25 – 2.10pm

Showcase – session 2- Stream 1: Zoom meeting ID - 862 7108 8599

Showcase – session 2- Stream 3: Zoom meeting ID - 898 6343 8553



Next sessions

See the L &T Forum website for zoom registration links to the next concurrent sessions:

■ 2:15 – 3.00pm

Showcase – session 2- Stream 1: Zoom meeting ID - 884 6479 9274

Showcase – session 2- Stream 2: Zoom meeting ID - 870 7274 0287

Showcase – session 2- Stream 3: Zoom meeting ID - 813 2506 0329



.

L&T:21

	•	•	•	•	•												
	•	•	•	•	•	•											
	•	•	•	•	•	•	•										
	•	•	•	•	•	•	•	•									
•	•	•	•	•	•	•	•	•	•								
	•	•	•	•	•	•	•	•	•	٠							
		•	•	•	•	•	•	•	•	•	•						
		•	•		•	•	•	•	•		•	•					
		•	٠							•							
	•	٠	•	•	٠	P		n	•	•							
•	٠	•	•	•	٠	•	D	Ľ		5	Т	6	7		77	U	
•	•	•	•	•	٠	•				C			<u>\</u>	N.			b
•	•	•	•	•	•	•	٠										
		•	٠	٠	٠	0											
	•		•		•												





......

.





