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Empowering Learners: Implementing student-led insights and design in Imperial Learning Analytics

Learning Analytics Central Team 30/04/2024 Festival of Learning & Teaching

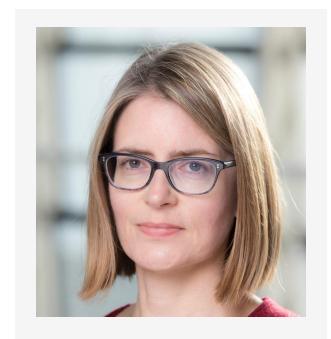
Outline

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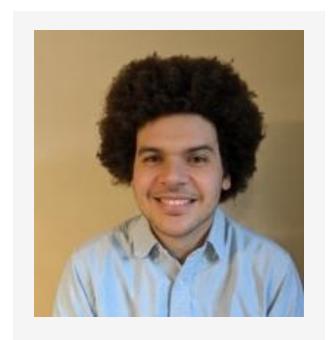
- 2 Background
- 3 Key Findings from Student Insights
- 4 Research Insights
- 5 Addressing Challenges: Imperial's Approach
- 6 Imperial's Co-Creation Ideas for Student Dashboards
- 7 Summing up

Introductions

Presenters



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Learning Analytics Product
Manager



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Introduction

We envision a future where students are empowered to use accurate and secure data about their online learning behaviours and academic progression to help them reflect on their learning, set goals and learn well.





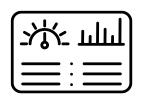


Background

Key Findings from Student Insights

Key Findings from Student Insights





Use of data insights to aid their own learning and be treated as adults to manage their own learning.





General lack of awareness of how Imperial uses their data. Desire for control over who sees data that identifies them.





Limited access to individuals and broader access to aggregated views.





More cautious about well-being data and data beyond their core learning experience such as extra-curricular.

Specific uses of Learning Analytics (LA) as mentioned by Imperial students Focus Groups



Time management tool



Assessment schedule and workload tool



Access to exam transcripts



Monitoring own progress



Aiding discussions with personal and academic tutors



Enhancing teaching and assessment



Identifying scholarships and opportunities

Research Insights

Research Insights

"What is the impact of LADs on students' learning outcomes?" Results:

A recent study [1] scrutinized research papers examining the influence of learning analytics dashboards (LAD) on students' learning outcomes.

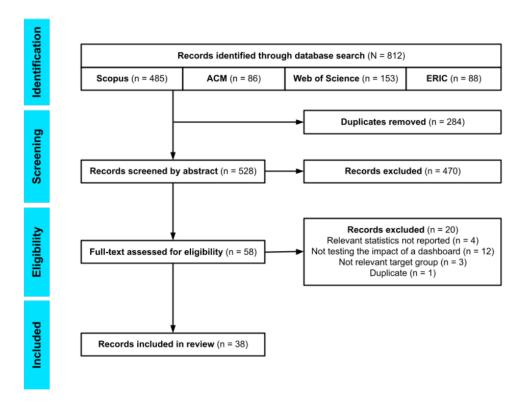


Figure 1: PRISMA flow diagram of records included in the review.

The analysis revealed four main learning outcomes indicators:

- Academic achievement
 No evidence that LADs can improve it.
- Motivation to learn:
 Improvement are modest.
- Attitude towards learning: Improvement are modest.
- Participation:

 LADs demonstrated a relatively average impact.

[1] Rogers Kaliisa, Kamila Misiejuk, Sonsoles López-Pernas, Mohammad Khalil, and Mohammed Saqr. 2024. Have Learning Analytics Dashboards Lived Up to the Hype? A Systematic Review of Impact on Students' Achievement, Motivation, Participation and Attitude. In Proceedings of the 14th Learning Analytics and Knowledge Conference (LAK '24). Association for Computing Machinery, New York, NY, USA, 295–304. https://doi.org/10.1145/3636555.3636884

Research Insights

What learning analytics can learn from students as partners? [2]

"Students as partners(SaP) is a metaphor for university education that challenges traditional assumptions about the identities of, and relationships between, learners and teachers." [3]

Three guiding principles [2]:

- 1 Respect and authentic inclusivity
- 2 Recognition of unique resources
- Balancing power dynamics

Challenges that SaP may raise in a LA context [2]

- 1 Mismatch between design and capacity
- 2 Invalid inferences
- Reconceptualizing from product to service

 $^{[2] \} Dollinger, Mollie \& \ Lodge, \ Jason. \ (2019). \ What \ learning \ analytics \ can \ learn \ from \ students \ as \ partners. \ Educational \ Media \ International. 56.1-15.10.1080/09523987.2019.1669883.$

^[3] Matthews, K. E. (2017). Five propositions for genuine students as partners practice. International Journal for Students as Partners, 1, 2.

Addressing Challenges: Imperial's Approach

Addressing Challenges: Imperial's Approach

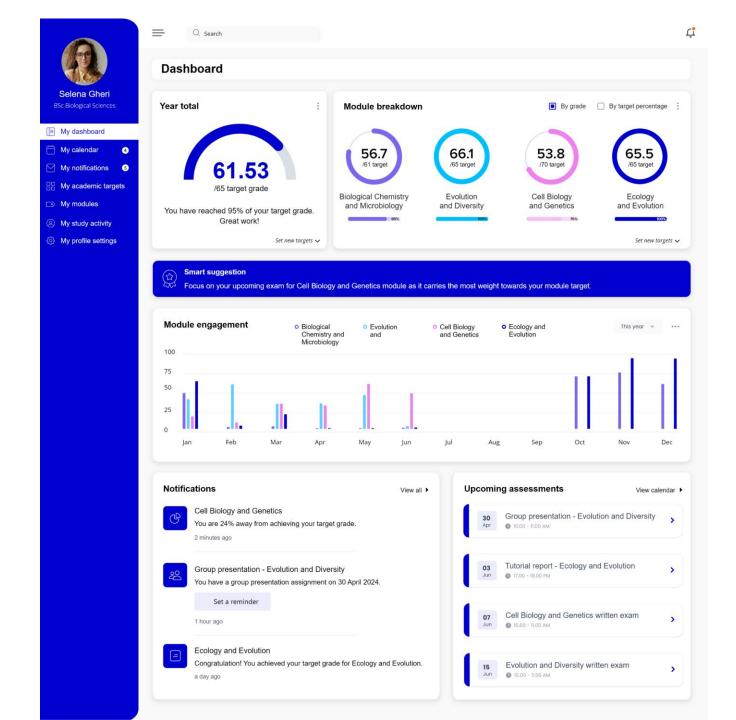
Co-creating tools with students to meet their needs.

Offering training for data interpretation skills.

Closing the trust gap:
Transparency and access to learning analytics.

Imperial's Co-Creation Ideas for Student Dashboards

Prototype

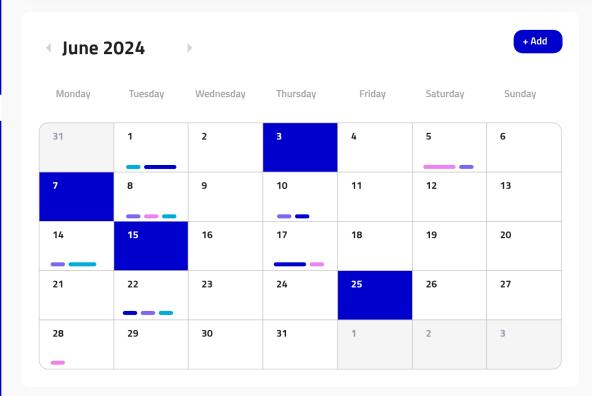




- My calendar 4
- My notifications
- On My academic targets
- My modules
- My study activity
- My profile settings



My academic calendar



Upcoming assessments



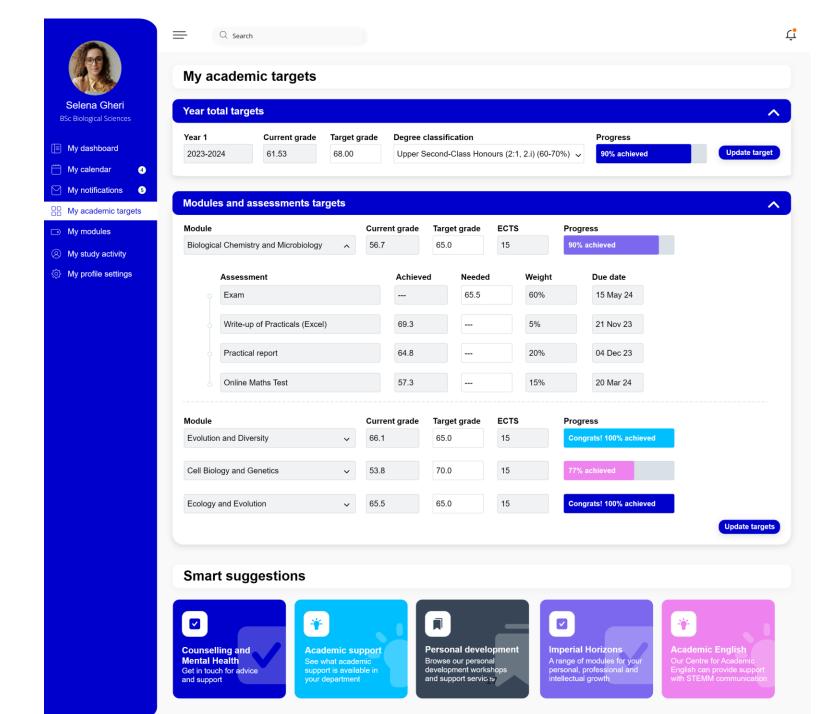
Tutorial report - Ecology and Evolution

■ 17.00 - 18.00 PM

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Summing up

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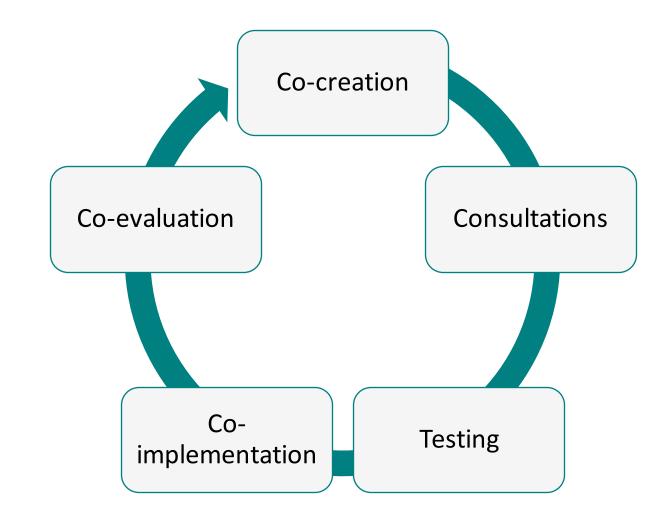
Learning analytics as a service, not a tool



Students as partners



One-stop shop – collaboration with Registry

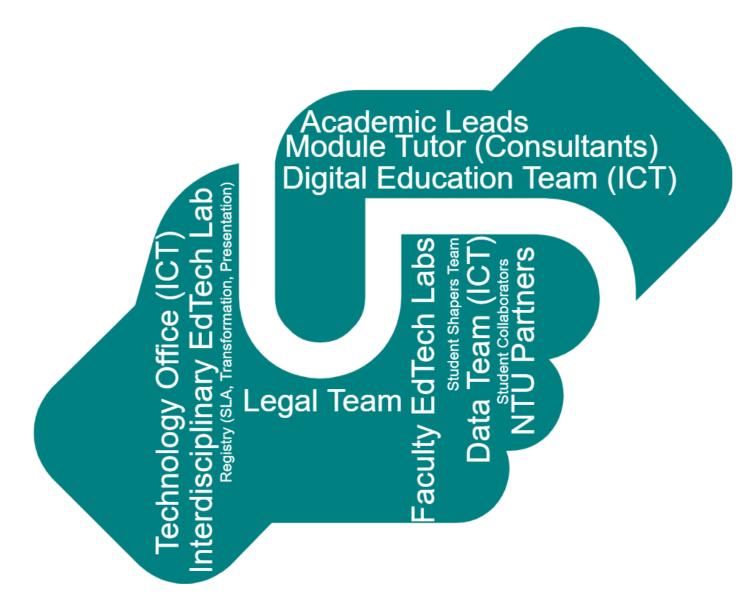


Acknowledgements

The partners and collaborators we have across the university.

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Megha Goel
Maryam Fetanet
Ziming Huang

Particular mentions to... Bobbi Borovanska Charlotte Whitaker Camille Kandiko Howson Rosany Antonyvincent



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Register your Interest - Learning Analytics



Interested in getting updates or giving inputs on the reporting we are developing for staff?

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Questions?

Empowering Learners: Implementing student-led insights and design in Imperial Learning Analytics

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