



Background...

Layout ▾

Theme...

Transition...



1

How do we define the hierarchy of Learning Analytics variables and their relationship to dashboard visualizations?

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2

Principles

1. Student Centric
2. Holistic & Layered
3. Based on learning Sciences

Click to add speaker notes

3

do we have an **hierarchical overview** of LA research?

Lee, Y., & Choi, J. (2011). *A review of online course dropout research: Implications for practice and future research*. Educational Technology Research and Development, *59*(1), 29-42. <http://dx.doi.org/10.1007/s10770-010-9122-2>

Or should we focus on specific tools?

Kim, D., Park, Y., Noh, M., & Ju, I.-H. (2010). Toward evidence-based learning analysis: Using proxy variables to improve asynchronous online discussion environments. *The Internet and Higher Education*, *13*, 30-43. <http://doi.org/10.1016/j.ihe.2010.03.004>

[CiteSpace](#) [Plex](#) to add your favorite references as

4

Based on Learning Theory?

Don't forget

6

Classification / Reduction of dimensions

Did what about the **right to explanation** of an algorithm or an ensemble of algorithms. How do you fit that into the coefficient?

7

the underlying
taxonomy of needs?

- Access to Education
- Toilets
- Travel time
- Lighting
- Food & water
- Time to study
- Class size
- Access to a well designed LA experience

Cusack, J. (2007). The empirical case against large class size: Adverse effects on the teaching, learning, and retention of first-year students. *Journal of Faculty Development*, 21, 5-21.

Imagines: Berg, A.M (2018). The empirical case against mixing LA services: Adverse effects on the teaching, learning, and retention of first-year students. *Journal of Faculty Development*, 22(2), 5-21.

8

the **system usability** of the Student LA experiences

What do students want? **System Usability Scale**
10 point Survey: <https://www.usability.gov/how-to-and-tools/templates/system-usability-scale.html>