WELCOME!

Student Success Analytics Community Group
In Person Meeting

October 26th, 2022
Agenda/Logistics
Wednesday Oct 26 at 8am Mountain Time

● Welcome / Introductions
● Who We Are and Why We Exist
● Annual Survey Results
● Discussion Topic: Is Big Data Better? LMS Data and Predictive Analytic Performance in Postsecondary Education
● Summary / Closing
Getting to Know Each Other
Your Chairs for 2022

Linda Feng, SSA CG Co-Chair
Unicon, Inc.

Marcia Ham, SSA CG Incoming Chair
The Ohio State University

Mitchell Colver, SSA CG Co-Chair
Civitas Learning, Inc.

Andy Miller, SSA CG Outgoing Chair
Blackboard Inc.
Steering Committee members

Szymon Machajewski
University of Illinois Chicago

Maureen Guarcello
San Diego State University

Steven Williams
UC Berkeley

Jason Nicholas
Northern Michigan University
Steering Committee members (cont.)

Tasha Almond-Dannenbring
HelioCampus

Shannon Mooney
Coursera

Kathe Pelletier, EDUCAUSE
(ad hoc SC member)

Melissa Irvin
Univ. of South Florida
Why We Exist

The goal of the community group is to promote, educate, and further a network of practitioners with a desire to improve student success through the use of analytics. The more we can collaborate and share on these efforts, the easier it is for these initiatives to grow and succeed.
What we do

Connect

- Listserv and Newsletters
- Slack: 469 members, 270 messages in the last 30 days, Weekly active members: 20-40

Share

- Webinars: 2 last year
- Virtual Brunches: Self Assessment 25; SSA Framework 40

Create

- Student Success Analytics Framework
- Resource Hub
Where we focus

The domains:
- Engagement & Communications
- Webinars & Virtual Brunches
- Surveys/Membership
- Resource Hub
- Research
2022 Survey Results: About the Group
2022 Survey Results: What to expect in the group?

I wanted to hear how others approach student success analytics 32 (97%)
I wanted to network with thought leaders in the field 22 (66.7%)
I wanted to stay current on method trends 21 (63.6%)
I wanted to stay current on tools/vendors 14 (42.4%)
I want to find partners/collaborators 17 (51.5%)
I want to share my expertise with the community 9 (27.3%)
I want to serve as a mentor to someone in the community 3 (9.1%)
I love the EDUCAUSE Lens! 1 (3%)
Your New Chairs for 2023

Marcia Ham,
SSA CG Chair
The Ohio State University

Linda Feng,
SSA CG Outgoing Chair
Unicon

Maureen Guarcello,
SSA CG Incoming Chair
San Diego State University
Your continuing SC members

Szymon Machajewski
University of Illinois Chicago

Steven Williams
UC Berkeley

Jason Nicholas
Northern Michigan University

Tasha Almond-Dannenbring
HelioCampus
Your continuing SC members

Shahriar Panahi  
University of Massachusetts

Kathe Pelletier, EDUCAUSE  
(ad hoc SC member)

Shannon Mooney  
Coursera

Melissa Irvin  
Univ. of South Florida
Discussion Time!

What do you think about the most recent paper “Is Big Data Better? LMS Data and Predictive Analytic Performance in Postsecondary Education”?

What questions come to mind about these findings?

What has been your school’s experience with using LMS data to inform student success?
“Among students with prior academic history in college, administrative data-only models substantially outperform LMS data-only models and are quite accurate at predicting whether students will struggle in a course.”

“Among first-time students, LMS data-only models outperform administrative data-only models.”

Is Big Data Better? LMS Data and Predictive Analytic Performance in Postsecondary Education

Kelli A. Bird  
University of Virginia

Benjamin L. Castleman  
University of Virginia

Yifeng Song  
University of Virginia

Renzhе Yu  
Teachers College  
Columbia University

Data science applications are increasingly entwined in students’ educational experiences. One prominent application of data science in education is to predict students’ risk of failing a course or dropping out from college. There is growing interest among higher education researchers and administrators in whether learning management system (LMS) data, which capture very detailed information on students’ engagement in and performance on course activities, can improve model performance. We systematically evaluate whether incorporating LMS data into course performance prediction models improves model performance. We conduct this analysis within an entire state community college system. Among students with prior academic history in college, administrative data-only models substantially outperform LMS data-only models and are quite accurate at predicting whether students will struggle in a course. Among first-time students, LMS data-only models outperform administrative data-only models. We achieve the highest performance for first-time students with models that include data from both sources. We also show that models achieve similar performance with a small and judiciously selected set of predictors; models trained on system-wide data achieve similar performance as models trained on individual courses.
Discussion Time!

https://tinyurl.com/SSACG-Notes
Thanks for sharing!
JOIN US

- Student Success Analytics Practitioners Community Group | EDUCAUSE
- Slack Channel - feel free to join the discussion here:
  (http://tiny.cc/SSACGJoinSlack)
- EDUCAUSE Connect: Student Success Analytics Practitioners Group
Upcoming Webinar planned

Date and Topic TBA

Stay Tuned