REFLECTIONS ON ANALYTICS, ACCREDITATION, AND INNOVATION
“I’m not an optimist. That makes me sound naïve. I’m a very serious ‘possibilist’ . . . It means someone who neither hopes without reason, nor fears without reason, someone who constantly resists the overdramtic worldview. As a possibilist, I see all this progress, and it fills me with conviction and hope that further progress is possible . . . It is having a clear and reasonable idea about how things are. It is having a worldview that is constructive and useful.”
Share of the World Population living in Absolute Poverty, 1820-2015

All data are adjusted for inflation over time and for price differences between countries (PPP adjustment).


The interactive data visualisation is available at OurWorldInData.org. There you find the raw data and more visualisations on this topic. Licensed under CC-BY-SA by the author Max Roser.
PERSONALIZED INSIGHTS DRIVE ACTION ACROSS THE STUDENT LIFECYCLE

SOLUTIONS
- Scheduling
- Mobile
- Advisory
- Persistence
- Measurement

OUTCOMES
- NIGHTLY UPDATED PREDICTIONS & FEATURES
- UPDATED
- INSTITUTION-SPECIFIC APPROACH → HIGHLY ACCURATE, WELL CALIBRATED MODELS
- MODELS
- DEPTH OF STUDENT DATA – 95% OF PREDICTIVE POWER COMES FROM DERIVATIVES
- DERIVATIVES
- BREADTH OF STUDENT DATA
- DATA

DEMOGRAPHICS
- Courses
- Course Activity
- GPA
- Withdrawals

PERSISTENCE
- Assignments
- Graduated
- Adds/Drops
- Financial Aid

OUTCOMES
- Course Outcomes
- Dropped Outs
- Discussion Boards
- Logins

SCHEDULING
- Online Sections Attempted
- Average Credits Attempted

MOBILE
- GPA Trend
- Online GPA
- On Ground GPA

PERSISTENCE
- Days between Logins
- Logins Relative to Section Average

MEASUREMENT
- Discussions Board
- Posts Relative to Section Average
- Average Numbers of Posts Per Section

DATA
- Sections Attempted
- GPA
- LMS Logins

INSTITUTION-SPECIFIC APPROACH
- Student segment logic
- 1) Data availability, 2) Comparability, 3) Homogeneity
- 4) Success rate variability, 5) Feature pattern consistency
- 6) Intervention target

SEGMENTS
...
98% of institutions in this study are losing more students above 2.0 GPA than below it.

This benchmark is based on a data set of 4 million students from 62 institutions.
CAMPAIGN: HIGH GPA, LOW-MODERATE PERSISTENCE

Outreach Goal
• Come to advising, persistence

Students Targeted
• Undergraduate, GPA 3.0-4.0 w/ low persistence likelihood

Outreach Owner
• Illume Working Group pulls student list, creates case for advisors

Strategy
• Sent before spring midterms

Sample Email: We’re Proud of You!

Hi <student first name>,

I wanted to send you a note to see how your semester is going. College can be challenging this time of year and even the most successful students can struggle. Common challenges for students include job commitments, family responsibilities, financial pressures, transportation issues, or a combination of these and other issues. Do any of these sound familiar to you?

If you are experiencing any of these issues, or other things, I am here to help!

I am proud of your progress and excited to support your continued success.

Sincerely,

<Advisor Name>
ABOUT
THE HOPE CENTER
Too many students leave college without credentials because life, logistics, and a lack of money got in the way. These #RealCollege students are the new majority, but they are often ignored. The Hope Center for College, Community, and Justice is home to an action research team using rigorous research to drive innovative practice, evidence-based policymaking, and effective communications to support #RealCollege students.

LISTENING TO STUDENTS’ VOICES4CHANGE
MARK MILLRON | JULY 24, 2018 | UNCATEGORIZED | ADD REPLY
Last week, we saw the announcement of the Hope Center for College, Community, and Justice, the next generation of the highly successful Wisconsin Hope Lab. The new center, located at Temple University, will continue and deepen the research and innovation aimed at helping striving students succeed in higher education, even as they are wrestling with serious challenges such as housing insecurity, food insecurity, transportation, childcare and more.

OER Commons is a public digital library of open educational resources. Explore, create, and collaborate with educators around the world to improve curriculum.

Create OER with Open Author

Open Author helps you build Open Educational Resources, lesson plans, and courses (on your own, or with others) — and then publish them, to the benefit of educators and learners everywhere. Select one of our authoring formats to get started:
A Radical Idea To Help College Students Succeed: Child Care

Wesley Whistle  Contributor @
Education
I write about education, including policy, student debt, and more.
LEARNING
BRIEF

COLLECTIVELY WORKING SMARTER & FASTER
USING ANALYTICS TO BREAK THROUGH PERFORMANCE PLATEAUS

UNIVERSITY OF SOUTH FLORIDA®
GE's Adventure Series redesigns imaging equipment including MRIs, X-ray machines and CT scanners like the pirate-themed machine pictured here to make the procedures less scary for kids.
Student Transformative Learning Record (STLR)

An overview of STLR, targeted to UCO students, Summer 2018
Designing Clear Educational & Advising Experiences

- **89.9% increase** degrees & certificates
- **60.3% increase** completers
- **$3.1 million** tuition savings from reduced credits
- **254% increase** IPEDS rate
5.9% Lift in Persistence
(+/- 2.1%)
Writing Center Tutoring Services
5,556 analyzed participants

Improve persistence rates, particularly for first year students, by offering free 1-on-1 tutoring.

Spring 2014 → Fall 2016
Added on April 6, 2017 by Grace Gee

0.8% Lift in Persistence
Not statistically significant
Supplemental Instruction
2,591 analyzed participants

Does participation in at least one SI session increase persistence for students in Biology?

Fall 2014 → Spring 2016
Added on September 12, 2016 by John Anderson

8.5% Lift in Persistence
(+/- 2.4%)
Student Activity Involvement
3,264 analyzed participants

Does Student Activity involvement increase persistence?

Fall 2013 → Spring 2017
Added 2 weeks ago by Craig Moser

4.2% Lift in Persistence
(+/- 3.1%)
Workforce Training
2,735 analyzed participants

Do low-income students who receive workforce training and financial aid have higher persistence?

Spring 2013 → Spring 2016
Added on March 27, 2017 by Grace Gee

6.3% Drop in Persistence
(+/- 2.1%)
Academic Concern Flag Email
5,710 analyzed participants

Testing impact of automated emails from academic concern flags on persistence.

Fall 2014 → Fall 2016
Added 1 month ago by Jacob Rios

0.8% Drop in Persistence
Not statistically significant
First Year Experience Seminar
1,397 analyzed participants

Improve first year persistence rates by offering a small class environment to introduce key...

Fall 2014 → Fall 2015
Added on March 27, 2017 by Grace Gee
When you have a full understanding of the impact your programs are having, it’s time to adjust to get more out of them.

**Optimize**
Adjust by adding resources, or targeting with greater precision.

**Reallocate**
Adjust by reallocating resources to your most impactful programs.

**Redesign**
Adjust by revisiting program goals, content and activities to improve outcomes.
THE OVERALL IMPACT OF STUDENT PROGRAMS
— BASED ON OVER 1,000 INITIATIVES RUN BY 55 INSTITUTIONS —

60% of initiatives show a statistically significant positive impact...

...but 20% of the students participating in these “successful” initiatives WERE NOT positively impacted.

40% of initiatives show little to no statistically significant impact...

...but 16% of the students participating in these “unsuccessful” initiatives WERE positively impacted.
**TOP 5**

1. Advising
2. Club Involvement
3. Tutoring: Writing
4. Tutoring/SI
5. Event Attendance

*Nudging

<table>
<thead>
<tr>
<th>TOP 5</th>
<th>Average Lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advising</td>
<td>5.50%</td>
</tr>
<tr>
<td>Club</td>
<td>4.35%</td>
</tr>
<tr>
<td>Writing</td>
<td>4.02%</td>
</tr>
</tbody>
</table>

While advising services demonstrate the highest overall average lift in persistence, analysis shows that this is harder to do well, with only 71% of advising program analyses showing a statistically significant result.

Student participation in clubs, activities and organizations demonstrate the second highest average impact to date and is done well consistently. 100% of club-related analyses showed a statistically significant positive impact.

Tutoring services focused on writing skills demonstrate the third highest overall average lift in persistence, with 89% of analyses showing a statistically significant result.
Selected Location
closest strike in last 30 minutes:
- 1.4 miles
Seek Shelter Now

ALERTS

SEVERE THUNDERSTORM WATCH
NWS
Sun 3:47 PM to Sun 11:00 PM

DANGEROUS THUNDERSTORM ALERT
NWS
Sun 6:04 PM to Sun 6:49 PM

DUST STORM WARNING
NWS
Sun 6:05 PM to Sun 6:45 PM

DUST STORM ADVISORY
NWS
Sun 5:57 PM to Sun 6:30 PM

SEVERE THUNDERSTORM WATCH
NWS
Sun 5:58 PM to Sun 6:30 PM
Reflections Follow Up

FOLLOW ON TWITTER
@markmilliron

BLOG & PODCAST: CATALYTIC CONVERSATIONS
www.civitaslearningspace.com/CatalyticConversations

PUBLICATIONS AND PRESENTATIONS
www.markmilliron.com

mark@civitaslearning.com