

Robert Kelchen University of Tennessee, Knoxville rkelchen@utk.edu



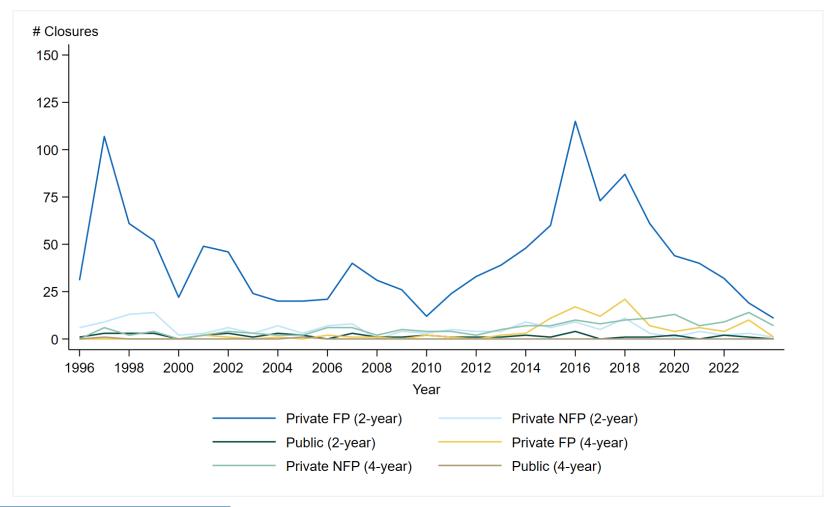
2025 NASASPS Annual Conference

NATIONAL ASSOCIATION OF STATE ADMINISTRATORS AND SUPERVISORS OF PRIVATE SCHOOLS

April 27-30 | St. Louis, MO

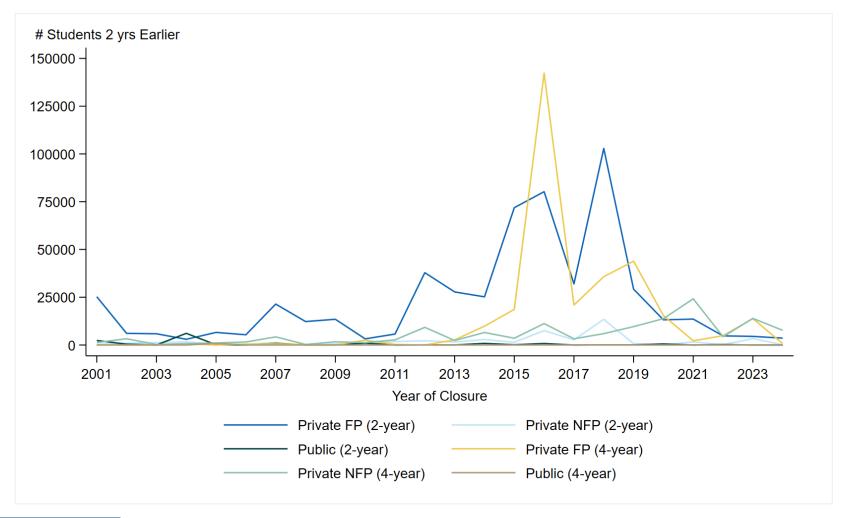
Number of closures by sector and year, 1996-2023





Number of students affected by closures









- Enrollment
- Rising operating costs alongside revenue challenges
- Uncertain policy environment





- Don't just think about the demographic cliff!
- Three main variables at play:
 - Number of high school graduates
 - Collegegoing rate of high school graduates
 - Enrollment of nontraditional students
- What can colleges control?



Rising costs, challenging revenues

- Higher ed operating costs typically rise faster than inflation
 - Benefits, facilities maintenance, and relative inability to use technology for efficiency (Baumol's cost disease)
- Tuition discounting has become a bigger issue, especially at private colleges
- Lack of market power further weakens ability to increase revenue





- Research grants not a concern for the most struggling colleges
- Will there be a recession?
- What will happen with international student enrollment?
- Will the financial aid system function?
- Will there be a Department of Education?





- Difficult to prevent closures
- Goal is to have them be as smooth as possible
 - Ex: Cabrini vs. University of the Arts
- Need to identify financial and non-financial factors associated with closures
- Ideally, pushing the work into markers of financial distress





- Scholarly research on factors predicting closure
 - Philly Fed working paper with Federal Reserve colleagues
- Public-facing work
 - Series of pieces in the Chronicle of Higher Education
- Advising state policymakers and accreditors





- Took a kitchen sink approach gathering IPEDS, FSA, and other data to predict closure within three years
- Used machine learning models and regressions accounting for missing data (there's a lot!)
- Significantly improved accuracy of models compared to standard regressions

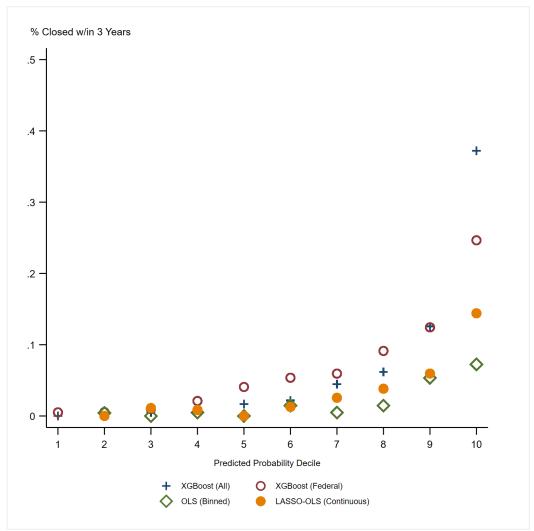




XGBoost (All Controls)		XGBoost (Continuous)		XGBoost (Binned)	
Covariate	Gain	Covariate	Gain	Covariate	Gain
L2 FRC Score	4.0%	L3 Enroll % change	4.0%	L2 Enroll % change 1stQ	3.2%
L2 Enroll % change	2.4%	L2 OP Margin	4.0%	L3 Revenue % GGC 1stQ	2.6%
L2 Total EAP % change	2.1%	L2 Enroll % change	3.9%	L3 Enroll % change 1stQ	2.5%
L3 Enroll % change	2.0%	L2 Total EAP % change	3.9%	L2 Revenue % GGC 1stQ	2.1%
L2 Revenue % change	1.9%	L2 EAP % Instruction	3.8%	L2 Salaries % Staff 1stQ	2.0%
L4 Revenue % change	1.8%	L2 Revenue % change	3.6%	L2 DCOH 3rdQ	2.0%
PNFP 4yr	1.8%	L3 Revenue % change	3.3%	L2 Total EAP % change 1stQ	1.9%
L2 Staff Total	1.7%	PNFP 4yr	2.9%	L3 Revenue % change 1stQ	1.8%
L3 Revenue % change	1.6%	L2 Expenses % Instruction	2.7%	L2 Revenue % change 1stQ	1.7%
L2 EAP % Instruction	1.6%	L2 EAP % ft	2.6%	L2 Expenses % Interest 1stQ	1.4%
L2 Salaries % Staff	1.6%	L3 OP Margin	2.6%	L3 Total EAP % change 1stQ	1.4%
L2 OP Margin	1.5%	L2 Revenue % Tuition	2.5%	L2 Log Unrestricted Assets 4th	1.4%
L2 Log Unrestricted Assets	1.5%	L3 Expenses % Instruction	2.4%	L3 OP Margin 3rdQ	1.3%
L3 FRC Score	1.3%	L2 Log Unrestricted Assets	2.4%	L2 DCOH 1stQ	1.2%
L5 Revenue % GGC	1.2%	L3 Revenue % Tuition	2.4%	L3 EAP % ft 1stQ	1.1%
L2 DCOH	1.1%	L3 Total EAP % change	2.3%	L2 Debt to Assets 1stQ	1.1%
L2 Revenue % Tuition	1.1%	L3 EAP % Instruction	2.3%	L2 OP Margin 1stQ	1.1%
L4 Expenses % Instruction	1.1%	L2 Log Enroll 12mo	2.0%	L2 Revenue % Tuition 4thQ	1.0%
L2 Expenses % Instruction	1.1%	L3 Log expenses	2.0%	L2 EAP % ft 1stQ	1.0%







Ok...now what?



- Fancy models work great with lots of resources
- Not ideal for authorizing agencies with limited staff
- Can we identify colleges that are at potential risk with a few simple measures?
 - Accuracy may not be quite as good, but can start asking important questions



Factor 1: Consistently losing money

- Occasional losses are common, especially for colleges with some endowment funds
- Year-over-year losses generally mean that net assets are declining
- Watch out for issues regarding cash on hand





- Net tuition revenue is the key, but enrollment is a proxy that is available in near real time
- Are positions/programs being cut when enrollment keeps falling?
- What happens to facilities?





- Pay close attention to endowment spending rate—used for financial aid or general expenses?
 - Anything over 5% can be a red flag
- Restricted vs. unrestricted funds
- BUT...it may be worthwhile for a college to use its endowment for one last hurrah to change its trajectory





- Frequent leadership turnover/excessive use of consultants
- Accreditation sanctions
- Sudden federal restrictions
- Missed bond payments (or consistently refinancing)





- Sizable program cuts can be a good or bad thing for financial viability
 - Good thing: Done in advance as a part of a strategic process
 - Bad thing: Last-ditch effort to avoid closure
- Context matters...try to examine in light of other information



Tips for quickly examining colleges

- Flag colleges with consistent enrollment declines and financial losses
- Look at the balance sheet...is there a runway?
- Cash on hand is a focus
- Be willing to ask tough questions of leadership





- Regular monitoring is key
- For the riskiest colleges, ask about enrollment and cash on hand quarterly
- Other colleges need less frequent check-ins, unless there is a triggering event
- Think about teach-out and records agreements right now





- Bumpy road ahead for higher education
 - But I expect fewer colleges to close than people think
- Goal is to be able to give stakeholders as much notice as possible of closure
- Ethics of sounding the alarm potentially too early are complicated



