

28TH
ANNUAL



STRATEGIC ENROLLMENT MANAGEMENT CONFERENCE



Hidden in Plain Sight:

A case study into designing sophisticated statistical model grids that leverage student-credit hour production with revenue opportunities to uncover often overlooked students.

Randall Langston *Texas Woman's University*

Mark Hamner *Texas Woman's University*

Michael Stankey *Texas Woman's University*

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Hidden in Plain Sight:

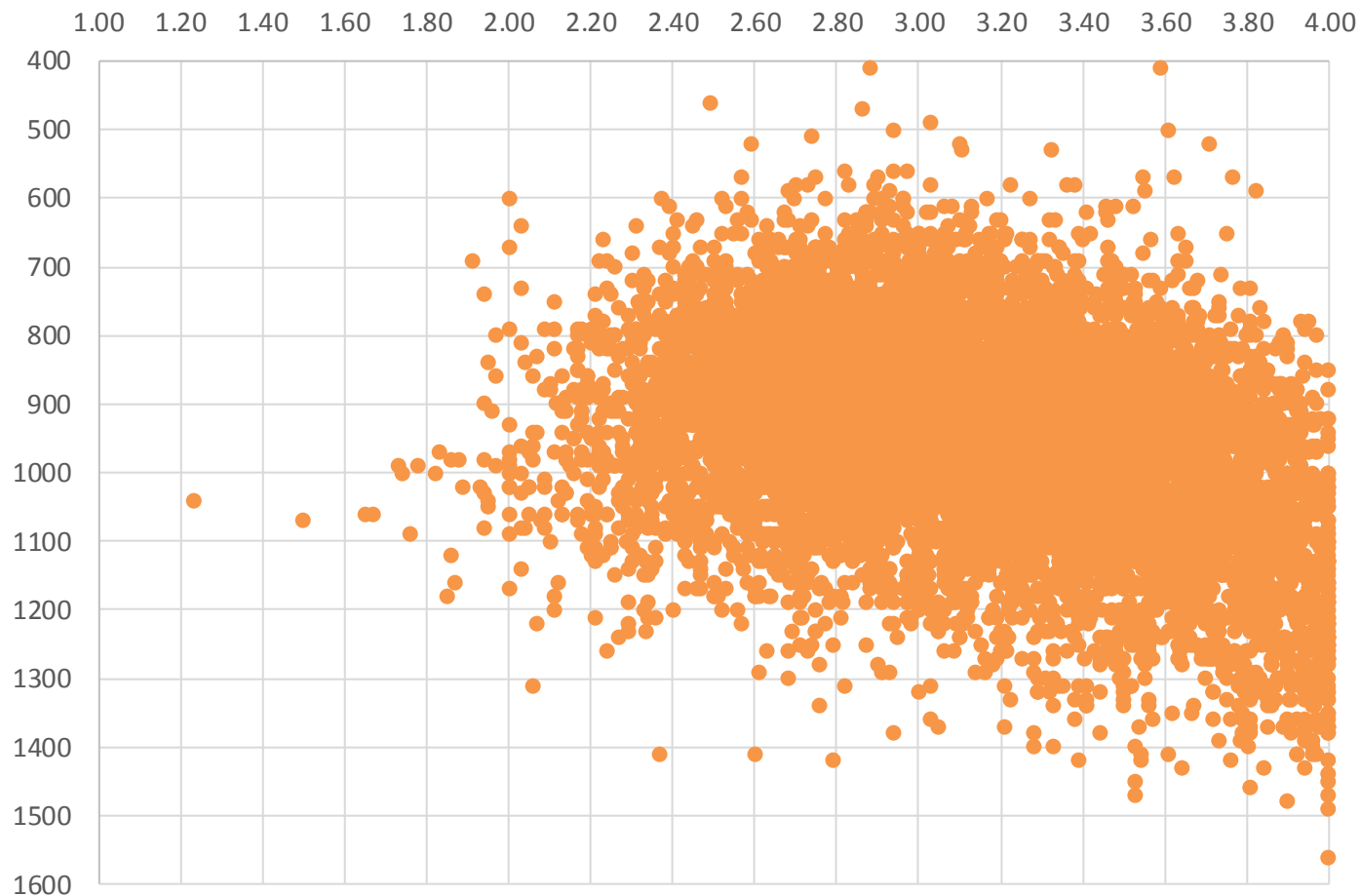
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Randall Vice President Enrollment Management

Mark Vice Provost Institutional Research & Improvement

Michael Director of Analytics

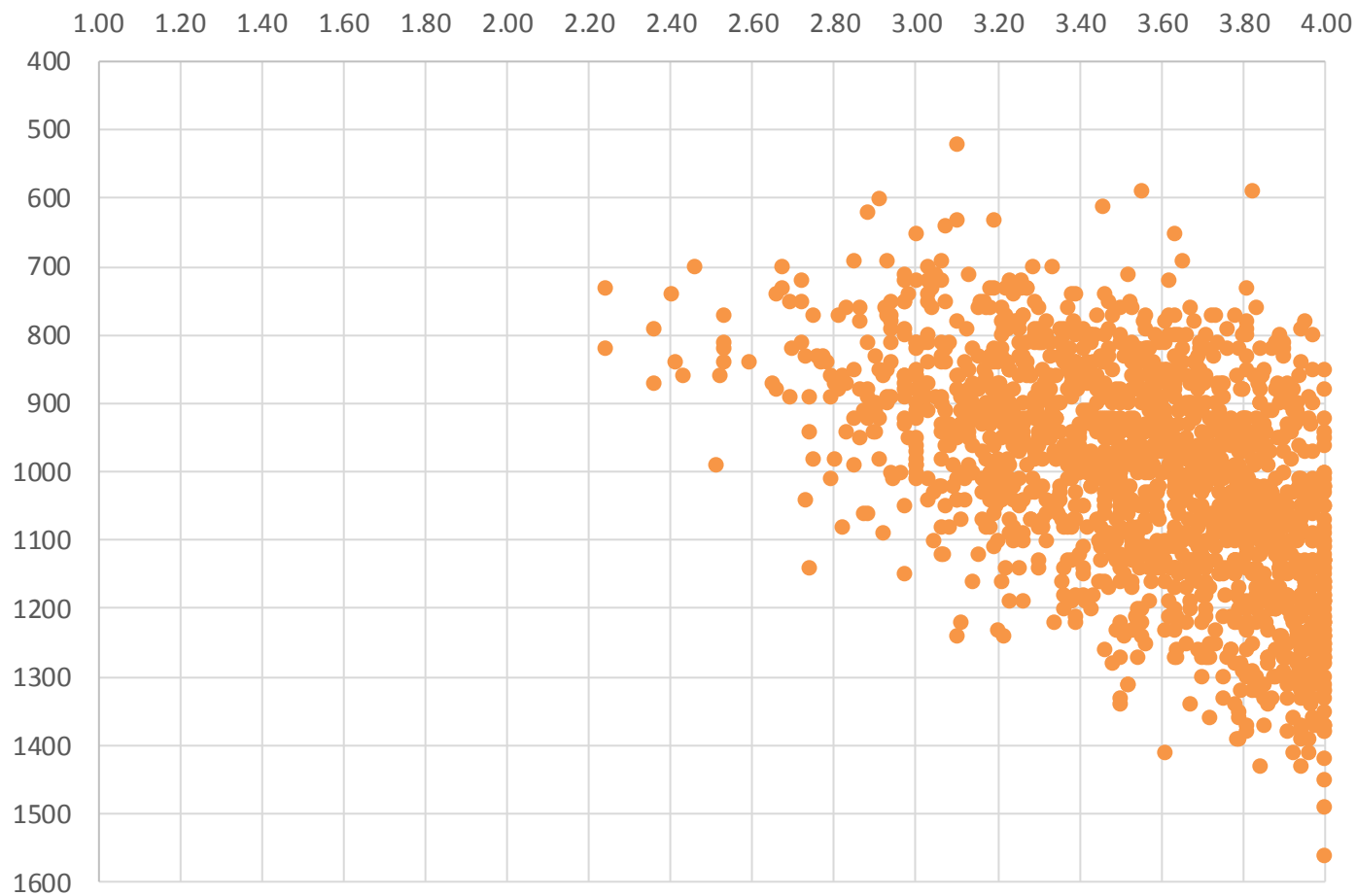
GPA by SAT



ALL

FTIC Applicants
FA13 to FA15

GPA by SAT



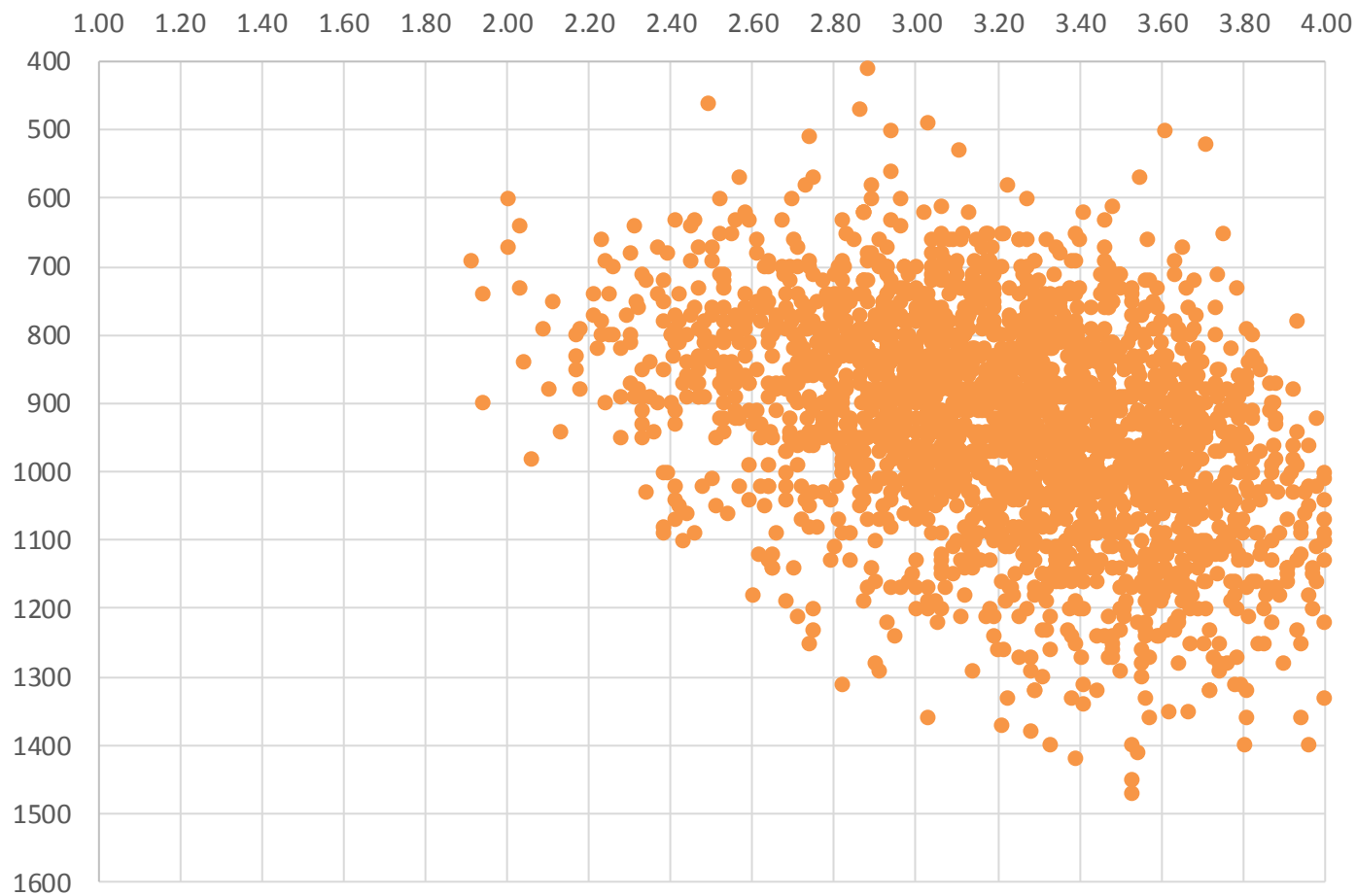
U1

FTIC Applicants
FA13 to FA15

*Top 10% of
Graduating
Class*

Admitted

GPA by SAT



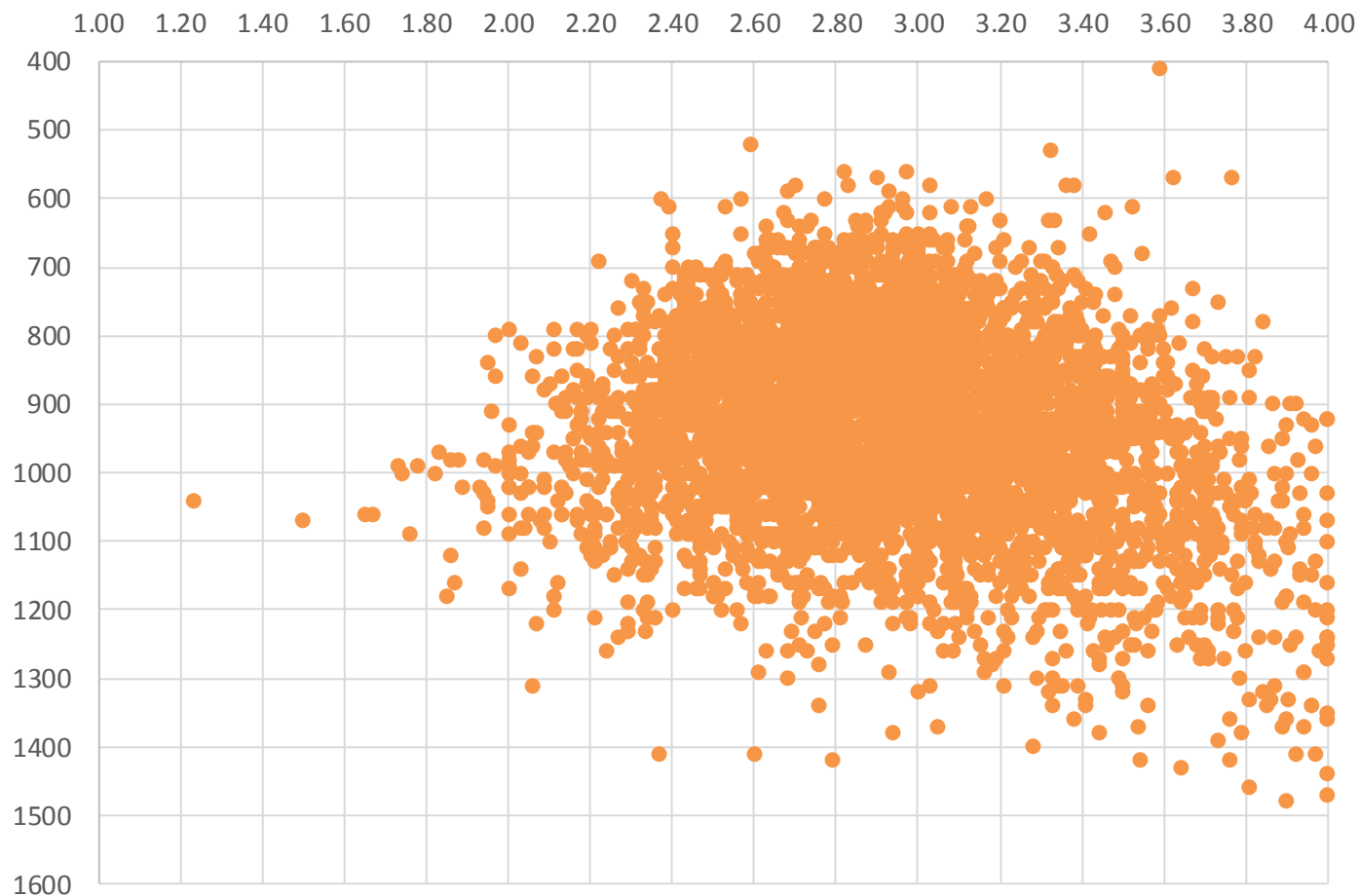
U2

FTIC Applicants
FA13 to FA15

*Top 25% of
Graduating
Class*

Admitted

GPA by SAT

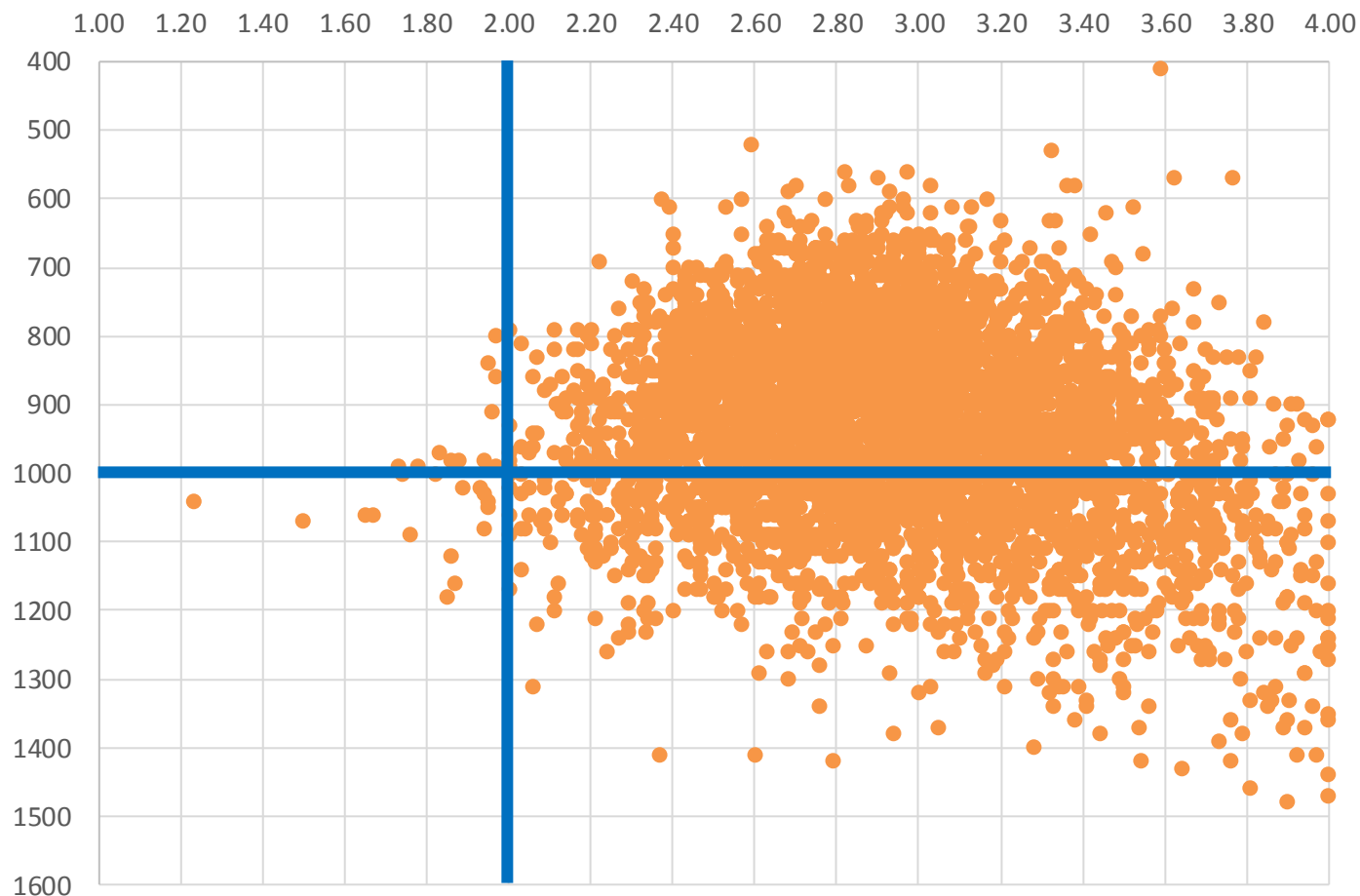


U3+U12

FTIC Applicants
FA13 to FA15

*Students on
whom we make
admissions
decisions.*

GPA by SAT



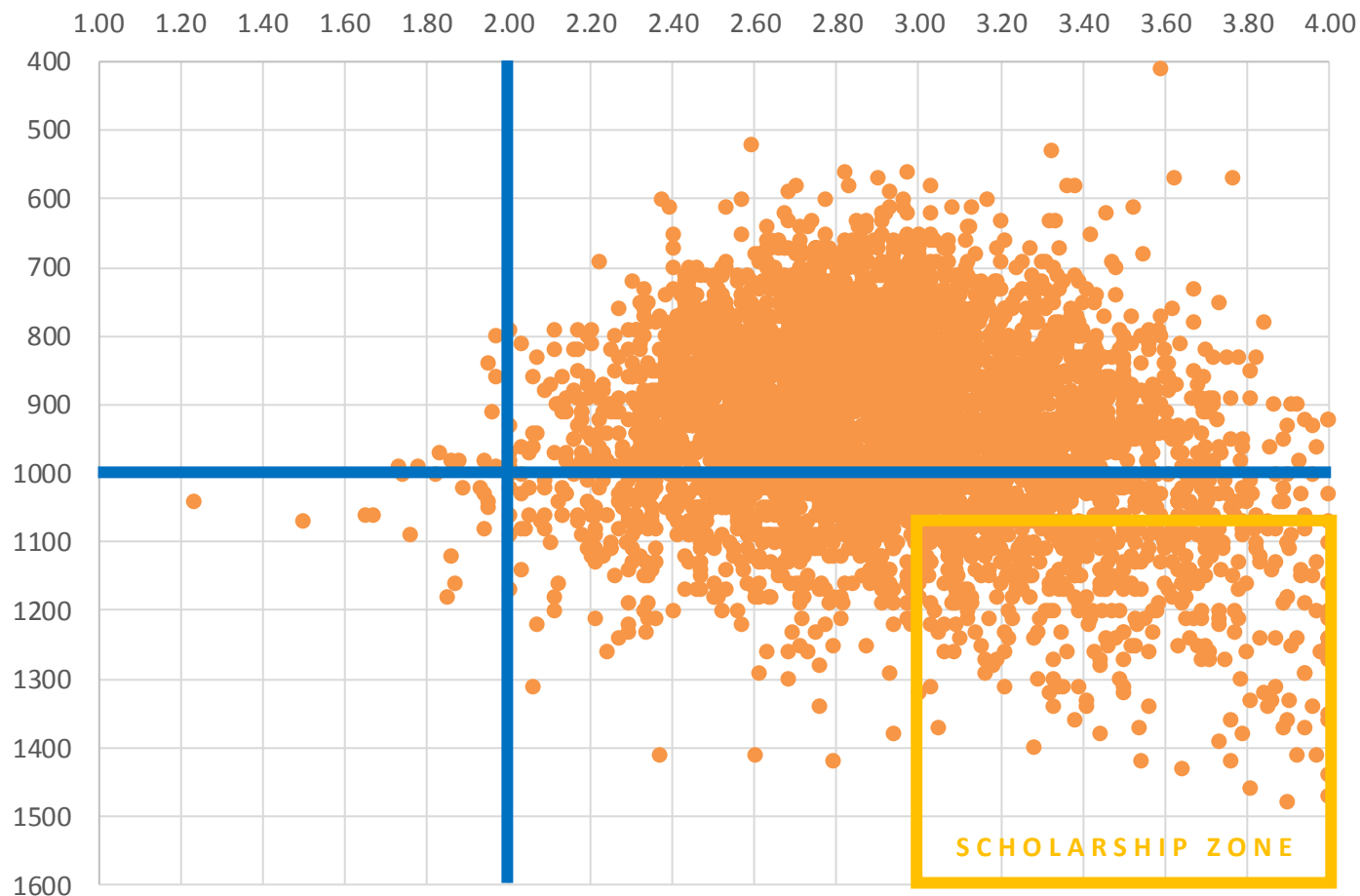
U3+U12

FTIC Applicants
FA13 to FA15

*Previous
approach used
the “**Flag of
Finland**” to
subdivide group
into regular
admits (U3) and
provisionals
(U12),*



GPA by SAT



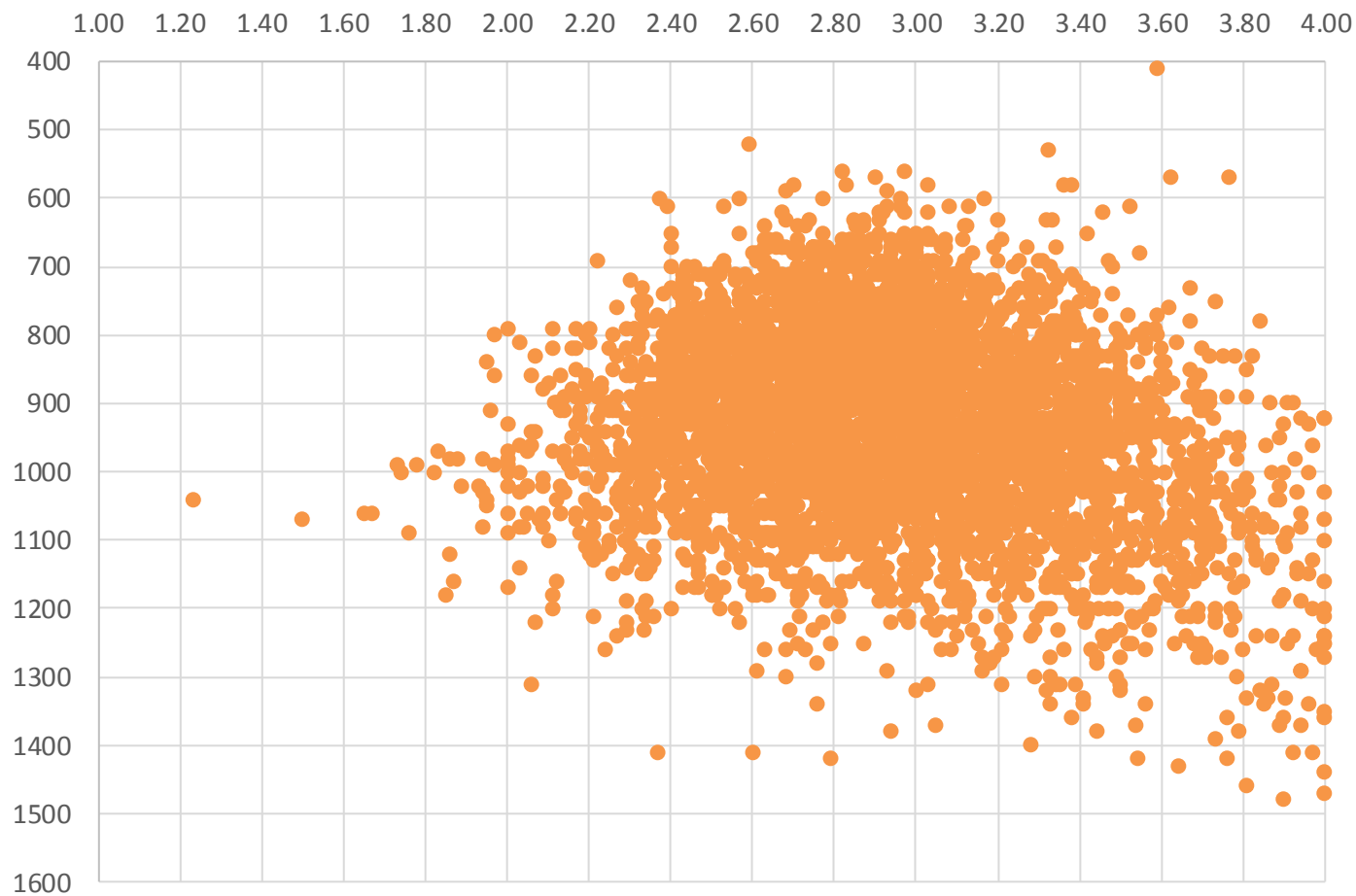
U3+U12

FTIC Applicants
FA13 to FA15

*Previous approach used the “**Flag of Finland**” to subdivide group into regular admits (U3) and provisionals (U12), and focused scholarship awards on higher gpa and sat areas.*



GPA by SAT



U3+U12

FTIC Applicants
FA13 to FA15

*Might there be
a better way?*

Successful Modeling of Factors Related to Recruitment and Retention of Prenursing Students

Jo-Ann Stankus, PhD, RN; Mark Hamner, PhD; Michael Stankey, PhD; and Peggy Mancuso, PhD, RN, CNM, CNE

ABSTRACT

Background: The traditional admission methodology used by many schools of nursing is the second-tier admission based on specified criteria. This method has been associated with a student body that is predominately female, white, and English speaking.

Problem: Rational judgment modeling (points assigned to criteria) used to evaluate applicants for admission into prenursing programs potentially overlooks students who do not fit into the traditional model.

Approach: This study compared predictive logistic regression with traditional rational judgment models to classify potential nursing school applicants.

Outcomes: A higher number of Hispanic and black prenursing students were identified for potential upper-level nursing program admission.

Conclusions: The use of logistic regression modeling can identify a more diverse student population. Advisors at both high school and university/college levels can use results of this model to help students determine their progress, identify academic weaknesses, and develop individual plans of action to help the students successfully complete the prenursing curriculum requirements.

Keywords: admissions, diversity, nursing students, predictive modeling, retention

Cite this article as: Stankus J-A, Hamner M, Stankey M, Mancuso P. Successful modeling of factors related to recruitment and retention of prenursing students. *Nurse Educ.* 2018. DOI: 10.1097/NNE.0000000000000579. [Epub ahead of print].

In the United States, nursing education is a high-stakes endeavor. The student expends money, time, and intellectual effort in the hopes of acquiring a rewarding career.¹⁻³ The educational institution deploys ever decreasing faculty and clinical resources in the hope of producing graduates who will be excellent practitioners.⁴⁻⁶ Society expends taxpayer dollars to support universities and colleges in the hope that graduates will be nurses who provide care to our most vulnerable populations.⁷ Current admission criteria tend to generate nursing student populations that are predominantly white and female, even in those states with diverse ethnic populations.^{8,9} To maximize the benefits

of nursing education, we must ensure that the students who are accepted into nursing programs represent the populations they will serve and can successfully address the rigors of the required academic work needed for successful graduation. To meet these objectives, this research project created an innovative modeling process using logistic regression to predict the future success of prenursing students who apply to nursing school through a second-tier admissions process.

Background

Admission to nursing programs today is no easy feat. Today's prenursing students grapple with the reality of a larger number of applicants for each available opening.¹⁰ To compete for these openings, prenursing students must be academically equipped to meet the challenges of higher-education courses. Students who have successfully passed high school courses may not be adequately prepared for rigorous college/university science courses.^{1,2,6,11} Students who come from lower socioeconomic status households are competing

Author Affiliations: Coordinator, RN BS/MS Program, and Assistant Professor (Dr Stankus), College of Nursing; Associate Provost of Institutional Research & Improvement (Dr Hamner); Director of Analytics (Dr Stankey); and Associate Dean for Research and Clinical Scholarship/Professor (Dr Mancuso), College of Nursing, Texas Woman's University, Denton.

The authors declare no conflicts of interest.

Manuscript provided by Health Resources and Services Administration

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Used Logistic Regression

to predict admission into upper level nursing program

and identify overlooked and undervalued students.

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Used Logistic Regression

to predict admission into upper level nursing program

and identify overlooked and undervalued students.

What if we applied the same principle to the admissions grid

and used logistic regression scores on each axis?

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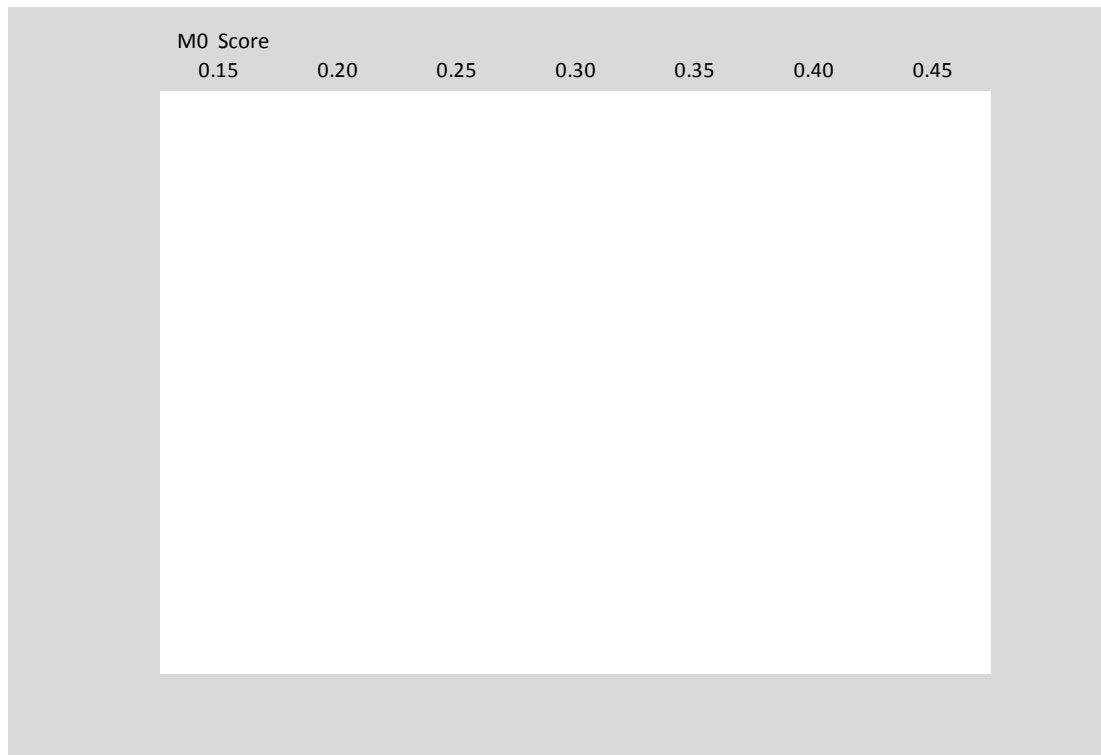
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Manuscript provided by Health Resources and Services Administration

Applications FA13-FA15



Applications FA13-FA15



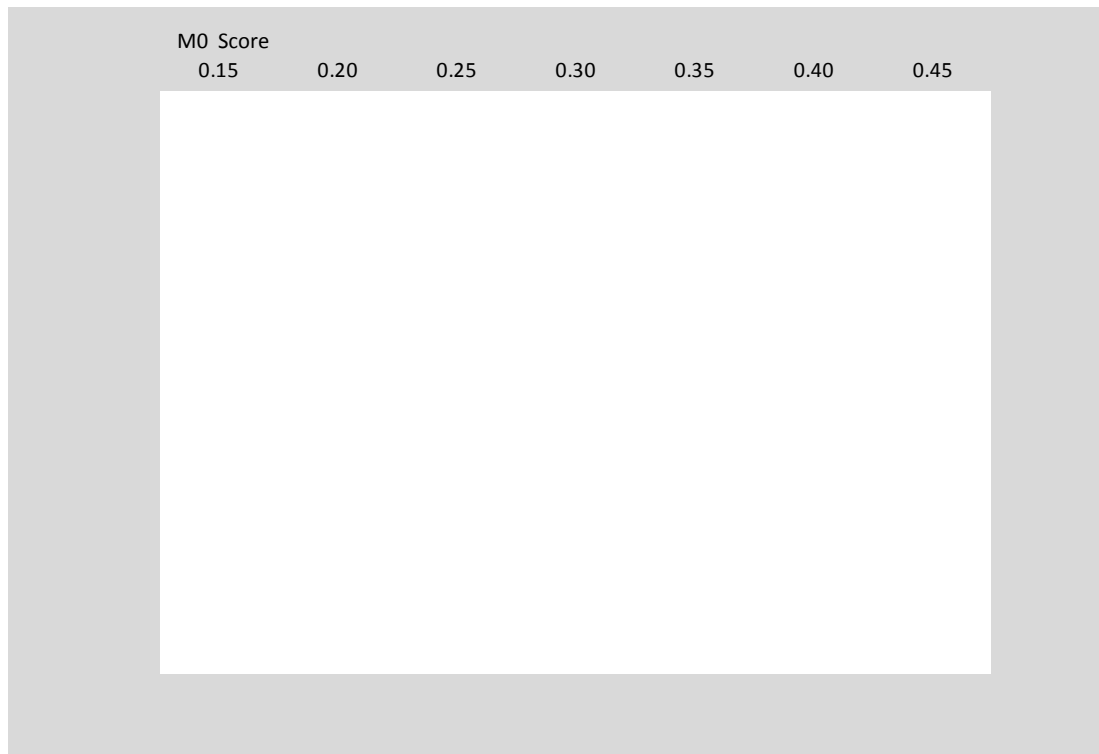
M0 Score

0.15 0.20 0.25 0.30 0.35 0.40 0.45

M A T R I C U L A T I O N

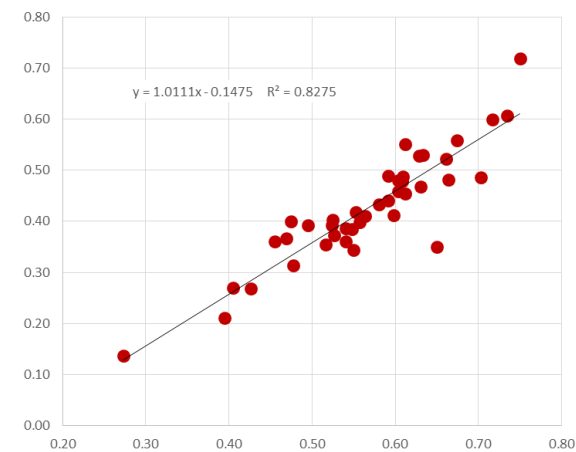
$$M0 = .002V - .001M - .121G - 0.863$$

Applications FA13-FA15



MATRICULATION

$$M0 = .002V - .001M - .121G - 0.863$$



Applications FA13-FA15

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20								
0.25								
0.30								
0.35								
0.40								
0.45								
0.50								
0.55								
0.60								
0.65								
0.70								
0.75								
0.80								
0.85								

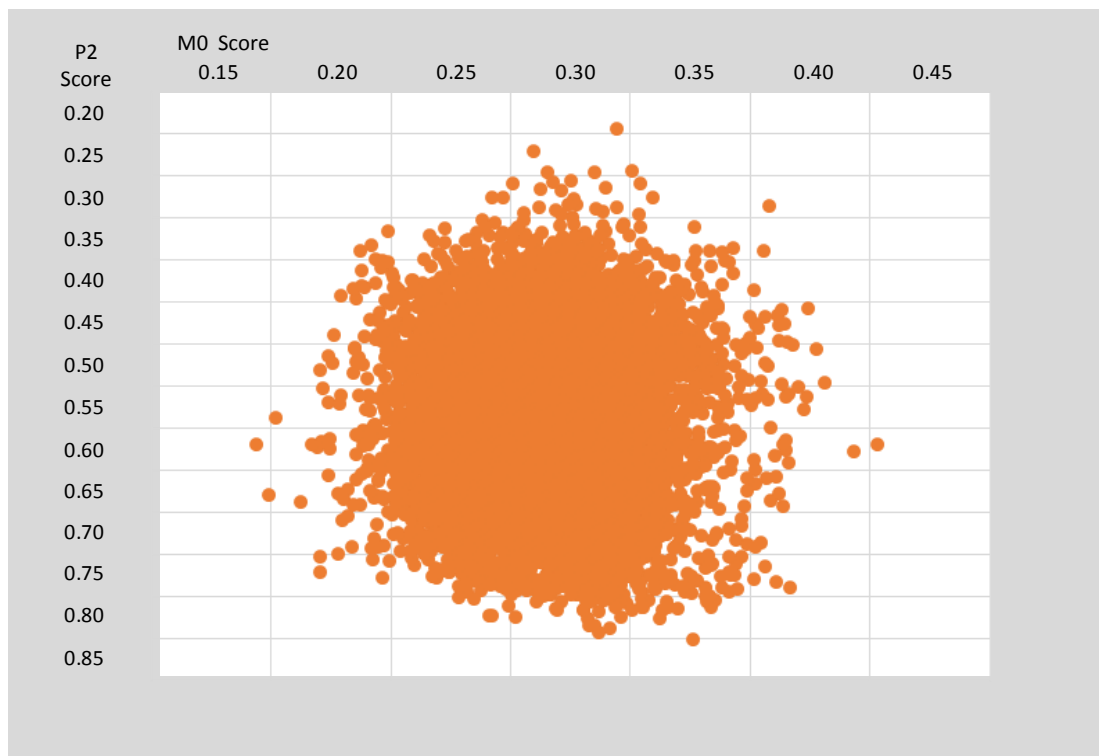
MATRICULATION

$$M0 = .002V - .001M - .121G - 0.863$$

$$P2 = .001V + .002M + .585G - 2.922$$

SECOND YEAR PERSISTENCE

Applications FA13-FA15



MATRICULATION

$$M0 = .002V - .001M - .121G - 0.863$$

$$P2 = .001V + .002M + .585G - 2.922$$

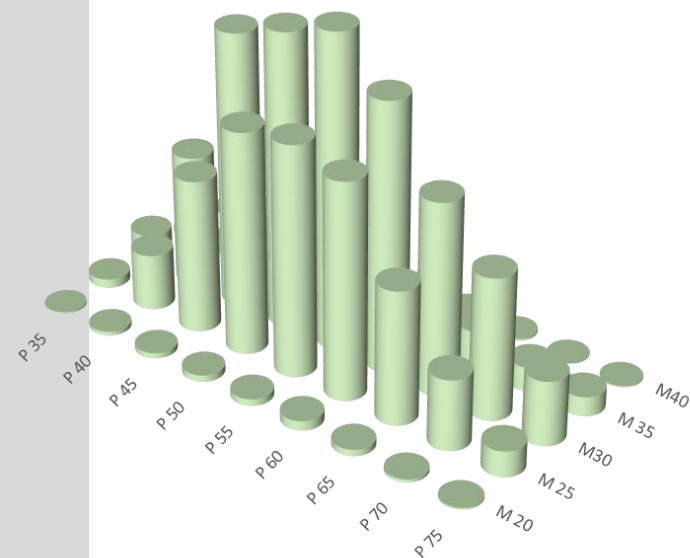
SECOND YEAR PERSISTENCE

Applications FA13-FA15

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1	.	.	.
0.25	.	.	.	4	1	.	.
0.30	.	.	2	20	3	1	.
0.35	.	4	26	85	10	1	.
0.40	.	12	165	386	51	1	.
0.45	.	16	449	805	119	10	.
0.50	.	19	650	862	146	8	.
0.55	.	20	675	917	151	11	.
0.60	1	28	634	785	128	8	2
0.65	1	19	392	564	109	6	.
0.70	.	9	208	416	72	2	.
0.75	.	5	76	190	57	4	.
0.80	.	.	5	26	14	.	.
0.85	.	.	.	.	1	.	.

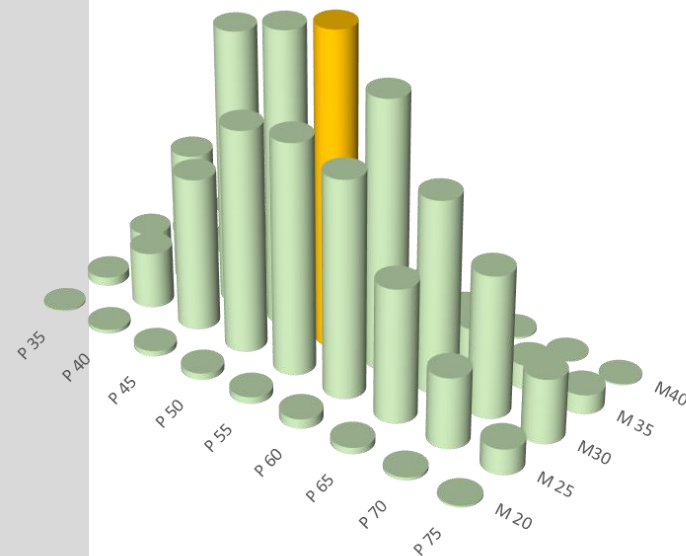
Applications FA13-FA15

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1	.	.	.
0.25	.	.	.	4	1	.	.
0.30	.	.	2	20	3	1	.
0.35	.	4	26	85	10	1	.
0.40	.	12	165	386	51	1	.
0.45	.	16	449	805	119	10	.
0.50	.	19	650	862	146	8	.
0.55	.	20	675	917	151	11	.
0.60	1	28	634	785	128	8	2
0.65	1	19	392	564	109	6	.
0.70	.	9	208	416	72	2	.
0.75	.	5	76	190	57	4	.
0.80	.	.	5	26	14	.	.
0.85	.	.	.	.	1	.	.



Applications FA13-FA15

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1	.	.	.
0.25	.	.	.	4	1	.	.
0.30	.	.	2	20	3	1	.
0.35	.	4	26	85	10	1	.
0.40	.	12	165	386	51	1	.
0.45	.	16	449	805	119	10	.
0.50	.	19	650	862	146	8	.
0.55	.	20	675	917	151	11	.
0.60	1	28	634	785	128	8	2
0.65	1	19	392	564	109	6	.
0.70	.	9	208	416	72	2	.
0.75	.	5	76	190	57	4	.
0.80	.	.	5	26	14	.	.
0.85	.	.	.	.	1	.	.



P2 rates among matriculants

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	0.750	1.000	.	.
0.30	.	.	.	0.545	0.500	.	.
0.35	.	1.000	0.455	0.357	0.167	.	.
0.40	.	1.000	0.333	0.519	0.400	.	.
0.45	.	0.000	0.551	0.454	0.566	0.250	.
0.50	.	0.333	0.563	0.523	0.480	0.000	.
0.55	.	0.000	0.620	0.560	0.558	0.667	.
0.60	.	0.600	0.676	0.646	0.818	0.333	1.000
0.65	.	0.500	0.606	0.635	0.629	0.333	.
0.70	.	1.000	0.750	0.786	0.920	.	.
0.75	.	1.000	0.759	0.845	0.783	1.000	.
0.80	.	.	1.000	0.818	1.000	.	.
0.85	.	.	.	.	.	.	.

P2 rates among matriculants

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	0.750	1.000	.	.
0.30	.	.	.	0.545	0.500	.	.
0.35	.	1.000	0.455	0.357	0.167	.	.
0.40	.	1.000	0.333	0.519	0.400	.	.
0.45	.	0.000	0.551	0.454	0.566	0.250	.
0.50	.	0.333	0.563	0.523	0.480	0.000	.
0.55	.	0.000	0.620	0.560	0.558	0.667	.
0.60	.	0.600	0.676	0.646	0.818	0.333	1.000
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0.85	.	.	.	.	.	.	.

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0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	0.750	1.000	.	.
0.30	.	.	.	0.545	0.500	.	.
0.35	.	1.000	0.455	0.357	0.167	.	.
0.40	.	1.000	0.333	0.519	0.400	.	.
0.45	.	0.000	0.551	0.454	0.566	0.250	.
0.50	.	0.333	0.563	0.523	0.480	0.000	.
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0.75	.	1.000	0.759	0.845	0.783	1.000	.
0.80	.	.	1.000	0.818	1.000	.	.
0.85	.	.	.	.	.	.	.

The Sweet Spot

P2 rates among matriculants

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1.000	.	.	.
0.25		.	.	.	0.750	1.000	.	.
0.30		.	.	.	0.545	0.500	.	.
0.35		.	1.000	0.455	0.357	0.167	.	.
0.40		.	1.000	0.333	0.519	0.400	.	.
0.45		.	0.000	0.551	0.454	0.566	0.250	.
0.50		.	0.333	0.563	0.523	0.480	0.000	.
0.55		.	0.000	0.620	0.560	0.558	0.667	.
0.60		.	0.600	0.676	0.646	0.818	0.333	1.000
0.65		.	0.500	0.606	0.635	0.629	0.333	.
0.70		.	1.000	0.750	0.786	0.920	.	.
0.75		.	1.000	0.759	0.845	0.783	1.000	.
0.80		.	.	1.000	0.818	1.000	.	.
0.85		.	.	.	.	.	.	.

The Sweet Spot

Above average persistence rates are attractive,

MO rates among applicants

P2 Score	MO Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	1.000	1.000	.	.
0.30	.	.	0.000	0.550	0.667	0.000	.
0.35	.	0.500	0.423	0.329	0.600	0.000	.
0.40	.	0.083	0.327	0.339	0.392	0.000	.
0.45	.	0.250	0.327	0.353	0.445	0.400	.
0.50	.	0.158	0.292	0.321	0.342	0.125	.
0.55	.	0.100	0.284	0.317	0.344	0.273	.
0.60	0.000	0.179	0.273	0.327	0.344	0.375	1.000
0.65	0.000	0.105	0.324	0.349	0.321	0.500	.
0.70	.	0.222	0.404	0.370	0.347	0.000	.
0.75	.	0.400	0.382	0.374	0.404	0.250	.
0.80	.	.	0.400	0.423	0.286	.	.
0.85	.	.	.	.	0.000	.	.

The Sweet Spot

Above average persistence rates are attractive, but below average matriculation rates are a concern and challenge.

MO rates among applicants

P2 Score	MO Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	1.000	1.000	.	.
0.30	.	.	0.000	0.550	0.667	0.000	.
0.35	.	0.500	0.423	0.329	0.600	0.000	.
0.40	.	0.083	0.327	0.339	0.392	0.000	.
0.45	.	0.250	0.327	0.353	0.445	0.400	.
0.50	.	0.158	0.292	0.321	0.342	0.125	.
0.55	.	0.100	0.284	0.317	0.344	0.273	.
0.60	0.000	0.179	0.273	0.327	0.344	0.375	1.000
0.65	0.000	0.105	0.324	0.349	0.321	0.500	.
0.70	.	0.222	0.404	0.370	0.347	0.000	.
0.75	.	0.400	0.382	0.374	0.404	0.250	.
0.80	.	.	0.400	0.423	0.286	.	.
0.85	.	.	.	.	0.000	.	.

Up here, the above average matriculation rates are a concern,

P2 rates among matriculants

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1.000	.	.	.
0.25		.	.	.	0.750	1.000	.	.
0.30		.	.	.	0.545	0.500	.	.
0.35		.	1.000	0.455	0.357	0.167	.	.
0.40		.	1.000	0.333	0.519	0.400	.	.
0.45		.	0.000	0.551	0.454	0.566	0.250	.
0.50		.	0.333	0.563	0.523	0.480	0.000	.
0.55		.	0.000	0.620	0.560	0.558	0.667	.
0.60		.	0.600	0.676	0.646	0.818	0.333	1.000
0.65		.	0.500	0.606	0.635	0.629	0.333	.
0.70		.	1.000	0.750	0.786	0.920	.	.
0.75		.	1.000	0.759	0.845	0.783	1.000	.
0.80		.	.	1.000	0.818	1.000	.	.
0.85		.	.	.	.	.	.	.

Up here, the above average matriculation rates are a concern, because they're associated with low persistence rates.

P2 rates among matriculants

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1.000	.	.	.
0.25		.	.	.	0.750	1.000	.	.
0.30		.	.	.	0.545	0.500	.	.
0.35		.	1.000	0.455	0.357	0.167	.	.
0.40		.	1.000	0.333	0.519	0.400	.	.
0.45		.	0.000	0.551	0.454	0.566	0.250	.
0.50		.	0.333	0.563	0.523	0.480	0.000	.
0.55		.	0.000	0.620	0.560	0.558	0.667	.
0.60		.	0.600	0.676	0.646	0.818	0.333	1.000
0.65		.	0.500	0.606	0.635	0.629	0.333	.
0.70		.	1.000	0.750	0.786	0.920	.	.
0.75		.	1.000	0.759	0.845	0.783	1.000	.
0.80		.	.	1.000	0.818	1.000	.	.
0.85		.	.	.	.	.	.	.

The Sour Spot

Up here, the above average matriculation rates are a concern, because they're associated with low persistence rates.

P2 rates among matriculants

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1.000	.	.	.
0.25		.	.	.	0.750	1.000	.	.
0.30		.	.	.	0.545	0.500	.	.
0.35		.	1.000	0.455	0.357	0.167	.	.
0.40		.	1.000	0.333	0.519	0.400	.	.
0.45		.	0.000	0.551	0.454	0.566	0.250	.
0.50		.	0.333	0.563	0.523	0.480	0.000	.
0.55		.	0.000	0.620	0.560	0.558	0.667	.
0.60		.	0.600	0.676	0.646	0.818	0.333	1.000
0.65		.	0.500	0.606	0.635	0.629	0.333	.
0.70		.	1.000	0.750	0.786	0.920	.	.
0.75		.	1.000	0.759	0.845	0.783	1.000	.
0.80		.	.	1.000	0.818	1.000	.	.
0.85		.	.	.	.	.	.	.

The Sour Spot

The Sweet Spot

Applications FA13-FA15

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1	.	.	.
0.25		.	.	.	4	1	.	.
0.30		.	.	2	20	3	1	.
0.35		.	4	26	85	10	1	.
0.40		.	12	165	386	51	1	.
0.45		.	16	449	805	119	10	.
0.50		.	19	650	862	146	8	.
0.55		.	20	675	917	151	11	.
0.60		1	28	634	785	128	8	2
0.65		1	19	392	564	109	6	.
0.70		.	9	208	416	72	2	.
0.75		.	5	76	190	57	4	.
0.80		.	.	5	26	14	.	.
0.85		.	.	.	.	1	.	.

The Sour Spot

The Sweet Spot

Applications FA13-FA15

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1	.	.	.
0.25		.	.	.	4	1	.	.
0.30		.	.	2	20	3	1	.
0.35		.	4	26	85	10	1	.
0.40		.	12	165	386	51	1	.
0.45		.	16	449	805	119	10	.
0.50		.	19	650	862	146	8	.
0.55		.	20	675	917	151	11	.
0.60		1	28	634	785	128	8	2
0.65		1	19	392	564	109	6	.
0.70		.	9	208	416	72	2	.
0.75		.	5	76	190	57	4	.
0.80		.	.	5	26	14	.	.
0.85		.	.	.	.	1	.	.

The Sour Spot

The Sweet Spot

Applications FA13-FA15

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1	.	.	.
0.25		.	.	.	4	1	.	.
0.30		.	.	2	20	3	1	.
0.35		.	4	26	85	10	1	.
0.40		.	12	165	386	51	1	.
0.45		.	16	449	805	119	10	.
0.50		.	19	650	862	146	8	.
0.55		.	20	675	917	151	11	.
0.60		1	28	634	785	128	8	2
0.65		1	19	392	564	109	6	.
0.70		.	9	208	416	72	2	.
0.75		.	5	76	190	57	4	.
0.80		.	.	5	26	14	.	.
0.85		.	.	.	.	1	.	.

The Sour Spot

Avg P2 = 42% (23% of applicants)

The Sweet Spot

Applications FA13-FA15

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1	.	.	.
0.25		.	.	.	4	1	.	.
0.30		.	.	2	20	3	1	.
0.35		.	4	26	85	10	1	.
0.40		.	12	165	386	51	1	.
0.45		.	16	449	805	119	10	.
0.50		.	19	650	862	146	8	.
0.55		.	20	675	917	151	11	.
0.60		1	28	634	785	128	8	2
0.65		1	19	392	564	109	6	.
0.70		.	9	208	416	72	2	.
0.75		.	5	76	190	57	4	.
0.80		.	.	5	26	14	.	.
0.85		.	.	.	.	1	.	.

The Sour Spot

Avg P2 = 42% (23% of applicants)

The Sweet Spot

Avg P2 = 78% (39% of applicants)

Applications FA13-FA15

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20		.	.	.	1	.	.	.
0.25		.	.	.	4	1	.	.
0.30		.	.	2	20	3	1	.
0.35		.	4	26	85	10	1	.
0.40		.	12	165	386	51	1	.
0.45		.	16	449	805	119	10	.
0.50		.	19	650	862	146	8	.
0.55		.	20	675	917	151	11	.
0.60		1	28	634	785	128	8	2
0.65		1	19	392	564	109	6	.
0.70		.	9	208	416	72	2	.
0.75		.	5	76	190	57	4	.
0.80		.	.	5	26	14	.	.
0.85		.	.	.	.	1	.	.

The Sour Spot

Avg P2 = 42% (23% of applicants)

The Sweet Spot

Avg P2 = 78% (39% of applicants)

But is persistence enough?

THE #1 NATIONAL BESTSELLER
MICHAEL LEWIS

NOW A
Major
Motion
Picture

WITH A NEW AFTERWORD

BRAD PITT

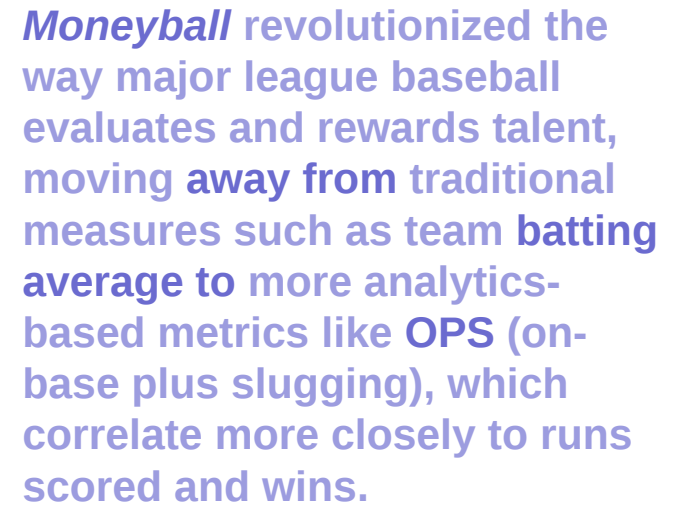


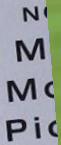
MONEYBALL

JONAH HILL PHILIP SEYMOUR HOFFMAN
ON A TRUE STORY

[illegible]

COMING SOON





Modern day players are expected to get on base (i.e. persist) with more than just singles and walks.

THE
M

BRAD PITT

NO
M
MO
Pic

MONEYBALL

JONAH HILL PHILIP SEYMOUR HOFFMAN

BASED ON A TRUE STORY

COLUMBIA PICTURES PRESENTS A SCOTT RUDIN/MICHAEL DE LUCA/RACHAEL HOROWITZ PRODUCTION A FILM BY BENNETT MILLER
"MONEYBALL" WRITTEN BY DANNA GIOIA AND KASIA MALONE PRODUCED BY JESS GEMCHER DIRECTED BY BENNETT MILLER
CASTING BY JESS GEMCHER COSTUME DESIGNER BY STEVEN ZILLIAN AND AARON SORKIN
EDITED BY BENNETT MILLER
MUSIC BY MICHAEL LEWIS
EXECUTIVE PRODUCERS: SCOTT RUDIN, ANDREW KATSKA, SUNEY KAMAL, MARK RAKSHI
PRODUCED BY MICHAEL DE LUCA, RACHAEL HOROWITZ, BRAD PITT
Moneyball-Movie.net
COMING SOON

Moneyball revolutionized the way major league baseball evaluates and rewards talent, moving away from traditional measures such as team batting average to more analytics-based metrics like OPS (on-base plus slugging), which correlate more closely to runs scored and wins.

Modern day players are expected to get on base (i.e. persist) with more than just singles and walks.

An occasional double or triple would be nice.

THE
M

BRAD PITT

NO
M
MO
Pic

MONEYBALL

JONAH HILL PHILIP SEYMOUR HOFFMAN
BASED ON A TRUE STORY

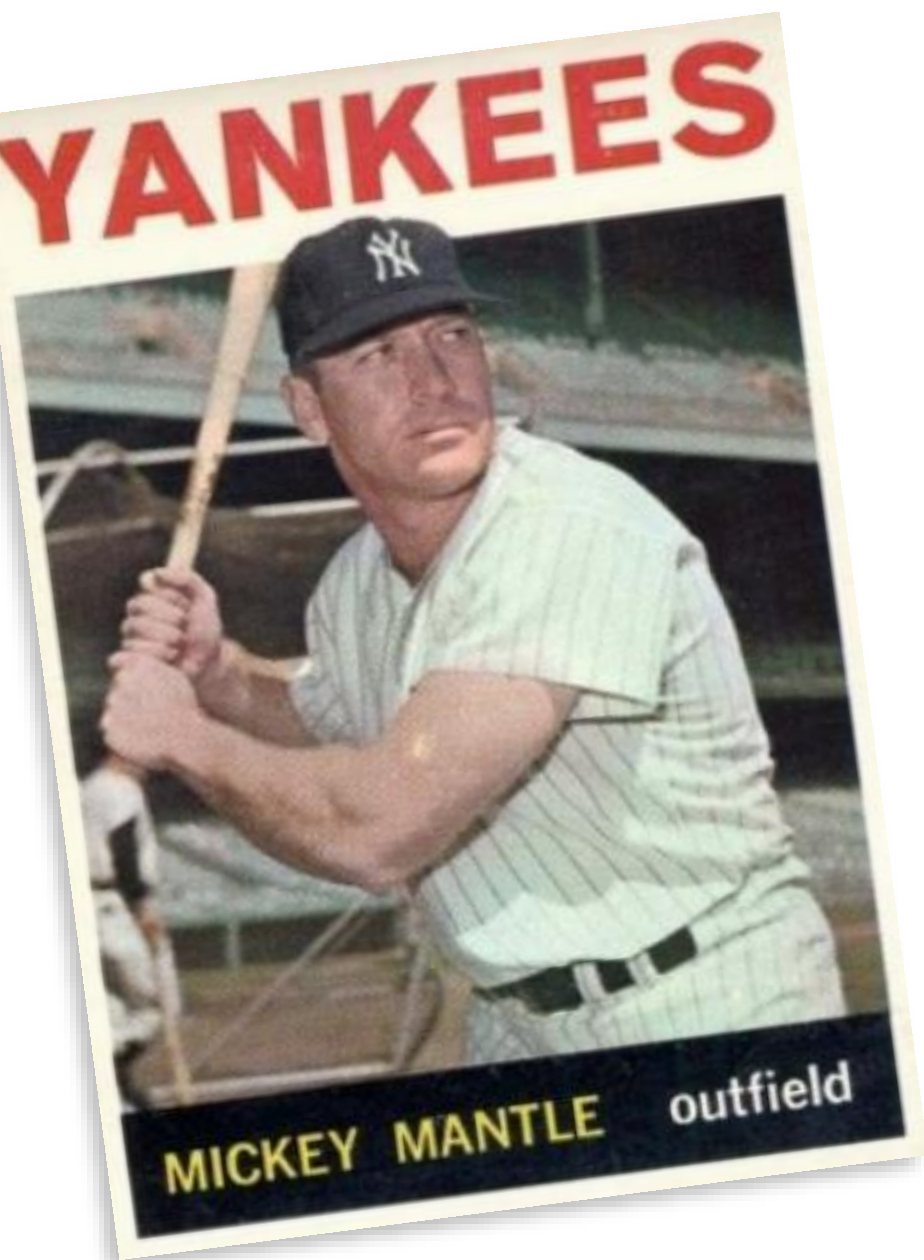
COLUMBIA PICTURES PRESENTS A SCOTT RUDD/MICHAEL DE LUCA/RACHAEL HOROWITZ PRODUCTION A FILM BY BENNETT MILLER
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CASTING BY JESS GEMCHER COSTUME DESIGNER JESS GEMCHER EDITOR JESS GEMCHER EXECUTIVE PRODUCERS JESS GEMCHER AND AARON SORKIN
PRODUCED BY SCOTT RUDD ANDREW BARBERA SUNDY KAMMEL MARK BAKSHI WRITTEN BY MICHAEL LEWIS PRODUCED BY MICHAEL DE LUCA RACHAEL HOROWITZ BRAD PITT
COLUMBIA PICTURES SONY PICTURES CLASSICS
MONEYBALL-MOVIE.NET
COMING SOON

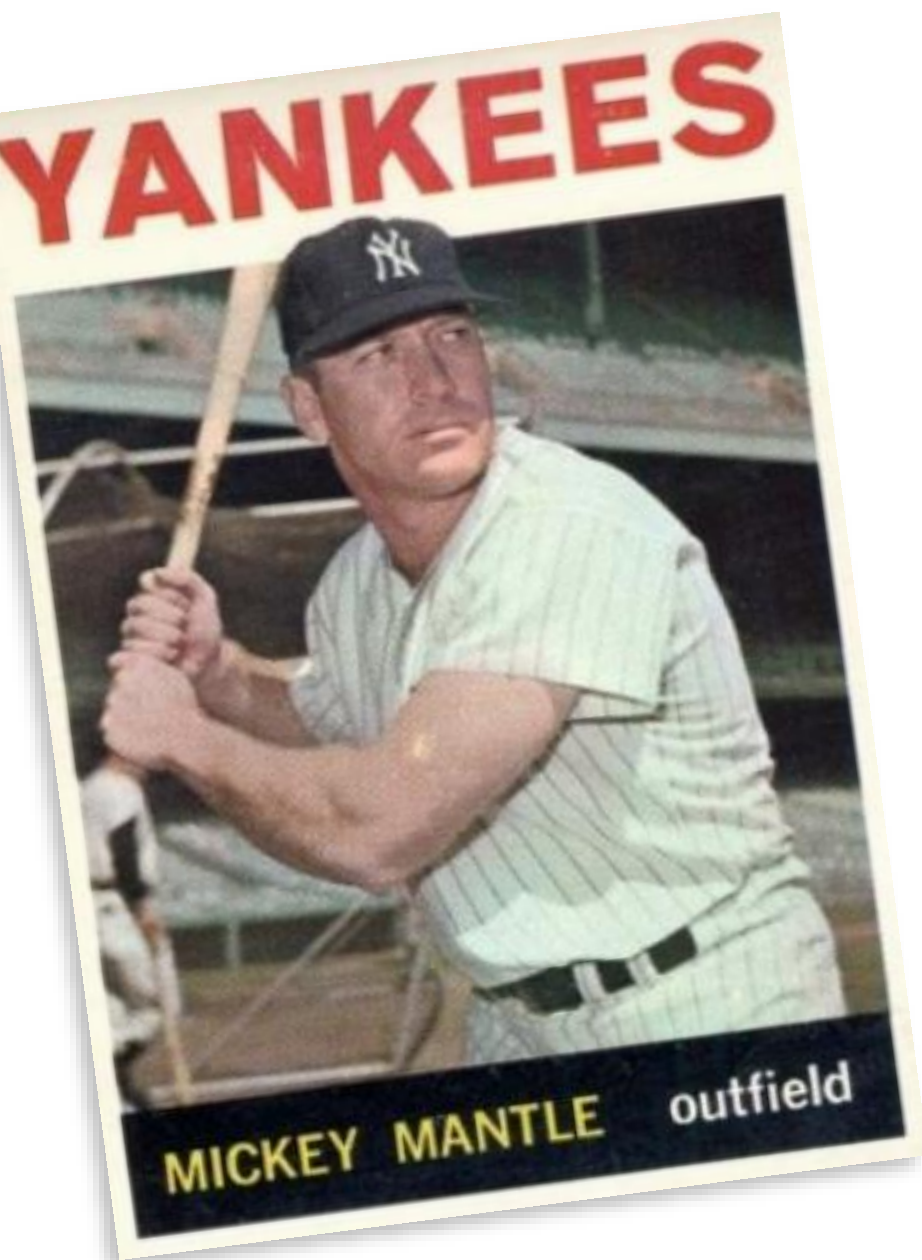
Moneyball revolutionized the way major league baseball evaluates and rewards talent, moving away from traditional measures such as team batting average to more analytics-based metrics like OPS (on-base plus slugging), which correlate more closely to runs scored and wins.

Modern day players are expected to get on base (i.e. persist) with more than just singles and walks.

An occasional double or triple would be nice.

Persist with power.





OPS

Mickey Mantle

.977

#11 Hall of Fame



OPS

Mickey Mantle

.977

#11 Hall of Fame

Mike Trout

.990

#9 HOF lock



OPS

Mickey Mantle

.977

#11 Hall of Fame

Mike Trout

.990

\$33 mm



OPS

Mickey Mantle	.977	#11 Hall of Fame
Mike Trout	.990	\$33 mm
Marwin Gonzalez	.737	Top 1000 = .741



OPS

Mickey Mantle	.977	#11 Hall of Fame
Mike Trout	.990	\$33 mm
Marwin Gonzalez	.737	\$5 mm



OPS

Mickey Mantle	.977	#11 Hall of Fame
Mike Trout	.990	\$33 mm
Marwin Gonzalez	.737	\$5 mm

**75% of the
production for
15% of the cost.**



OPS

Mickey Mantle	.977	#11 Hall of Fame
Mike Trout	.990	\$33 mm
Marwin Gonzalez	.737	\$5 mm
Babe Ruth	1.164	#1 Hall of Fame



OPS

Mickey Mantle	.977	#11 Hall of Fame
Mike Trout	.990	\$33 mm
Marwin Gonzalez	.737	\$5 mm
Babe Ruth	1.164	#1 Hall of Fame

Attract, Retain, Graduate Undervalued Students who
Persist with Power

P2 rates among matriculants

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	0.750	1.000	.	.
0.30	.	.	.	0.545	0.500	.	.
0.35	.	1.000	0.455	0.357	0.167	.	.
0.40	.	1.000	0.333	0.519	0.400	.	.
0.45	.	0.000	0.551	0.454	0.566	0.250	.
0.50	.	0.333	0.563	0.523	0.480	0.000	.
0.55	.	0.000	0.620	0.560	0.558	0.667	.
0.60	.	0.600	0.676	0.646	0.818	0.333	1.000
0.65	.	0.500	0.606	0.635	0.629	0.333	.
0.70	.	1.000	0.750	0.786	0.920	.	.
0.75	.	1.000	0.759	0.845	0.783	1.000	.
0.80	.	.	1.000	0.818	1.000	.	.
0.85	.	.	.	.	.	.	.

P2 rates among matriculants

P2 Score	M0 Score							P2 avg
	0.15	0.20	0.25	0.30	0.35	0.40	0.45	
0.20	.	.	.	1.000	.	.	.	P2 avg
0.25	.	.	.	0.750	1.000	.	.	
0.30	.	.	.	0.545	0.500	.	.	
0.35	.	1.000	0.455	0.357	0.167	.	.	.420
0.40	.	1.000	0.333	0.519	0.400	.	.	
0.45	.	0.000	0.551	0.454	0.566	0.250	.	
0.50	.	0.333	0.563	0.523	0.480	0.000	.	.780
0.55	.	0.000	0.620	0.560	0.558	0.667	.	
0.60	.	0.600	0.676	0.646	0.818	0.333	1.000	
0.65	.	0.500	0.606	0.635	0.629	0.333	.	.780
0.70	.	1.000	0.750	0.786	0.920	.	.	
0.75	.	1.000	0.759	0.845	0.783	1.000	.	
0.80	.	.	1.000	0.818	1.000	.	.	
0.85	.	.	.	.	.	.	.	

SCH2 Two Year Semester Credit Hour Production per matriculant

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45	SCH2 avg
0.20									
0.25		.	.	.	.	.	.	.	
0.30		.	.	.	18	.	.	.	
0.35		47	20	15	10	.	.	.	
0.40		22	12	24	19	.	.	.	
0.45		.	26	23	32	.	.	.	20
0.50		22	30	28	26	.	.	.	
0.55		.	34	31	32	29	.	.	
0.60		68	41	37	48	26	.	.	
0.65		38	43	43	40	35	.	.	
0.70		64	53	51	60	.	.	.	51
0.75		74	62	58	50	78	.	.	
0.80		.	54	63	63	.	.	.	
0.85		.	.	.	.	.	.	.	

“Slugging” Percentage (actual SCH2 / expected SCH2)

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45	SLG avg
0.20									
0.25									
0.30					0.300	.	.		
0.35		0.783	0.325	0.253	0.160	.	.		
0.40		0.367	0.202	0.408	0.312	.	.		
0.45		.	0.428	0.376	0.534	.	.		.333
0.50		0.361	0.497	0.467	0.430	.	.		
0.55		.	0.572	0.514	0.528	0.475	.		
0.60	1.125		0.675	0.618	0.793	0.429	.		
0.65	0.625		0.724	0.710	0.661	0.575	.		
0.70	1.067		0.888	0.858	1.001	.	.		
0.75	1.233		1.029	0.967	0.835	1.300	.		.850
0.80	.		0.894	1.047	1.054	.	.		
0.85									

“Slugging” Percentage (actual SCH2 / expected SCH2)

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20								
0.25								
0.30					0.300			
0.35		0.783	0.325	0.253	0.160			
0.40		0.367	0.202	0.408	0.312			
0.45		.	0.428	0.376	0.534			
0.50		0.361	0.497	0.467	0.430			
0.55		.	0.572	0.514	0.528	0.475		
0.60	1.125		0.675	0.618	0.793	0.429		
0.65	0.625		0.724	0.710	0.661	0.575		
0.70	1.067		0.888	0.858	1.001			
0.75	1.233		1.029	0.967	0.835	1.300		
0.80	.		0.894	1.047	1.054			
0.85								

SLG
avg

P2
avg

.333

.420

.850

.780

“Slugging” Percentage (actual SCH2 / expected SCH2)

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20								
0.25								
0.30					0.300			
0.35		0.783	0.325	0.253	0.160			
0.40		0.367	0.202	0.408	0.312			
0.45		.	0.428	0.376	0.534			
0.50		0.361	0.497	0.467	0.430			
0.55		.	0.572	0.514	0.528	0.475		
0.60		1.125	0.675	0.618	0.793	0.429		
0.65		0.625	0.724	0.710	0.661	0.575		
0.70		1.067	0.888	0.858	1.001	.		
0.75		1.233	1.029	0.967	0.835	1.300		
0.80		.	0.894	1.047	1.054	.		
0.85								

$$\begin{array}{c} \text{POWER} \\ \text{SLG} \\ \text{avg} \end{array} + \begin{array}{c} \text{PERSIST} \\ \text{P2} \\ \text{avg} \end{array} = \text{OPS}$$

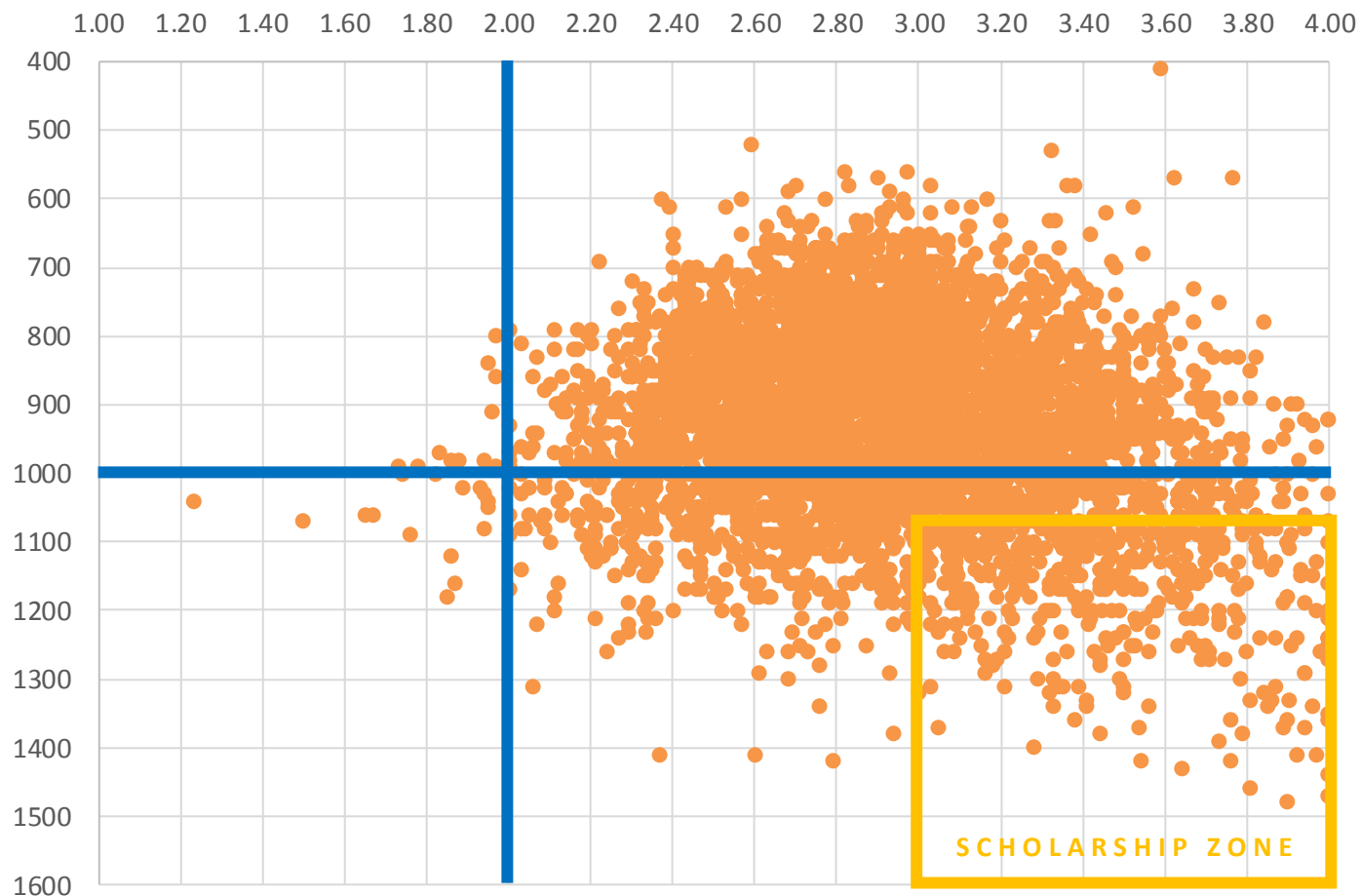
.333 .420 .753

.850 .780 1.630

REVENUE per matriculant

P2 Score	M0 Score	0.15	0.20	0.25	0.30	0.35	0.40	0.45	REV avg
0.20									
0.25									
0.30					4957				
0.35		12943		5370	4177	2644			
0.40		6059		3346	6738	5160			
0.45		.		7068	6212	8818	.		\$5,504
0.50		5967		8207	7715	7112	.		
0.55		.		9444	8496	8721	7849		
0.60		18589		11156	10219	13105	7091		
0.65		10327		11956	11735	10927	9501		
0.70		17625		14675	14173	16535			
0.75		20379		17011	15977	13792	21480		\$14,050
0.80				14779	17294	17418			
0.85									

GPA by SAT



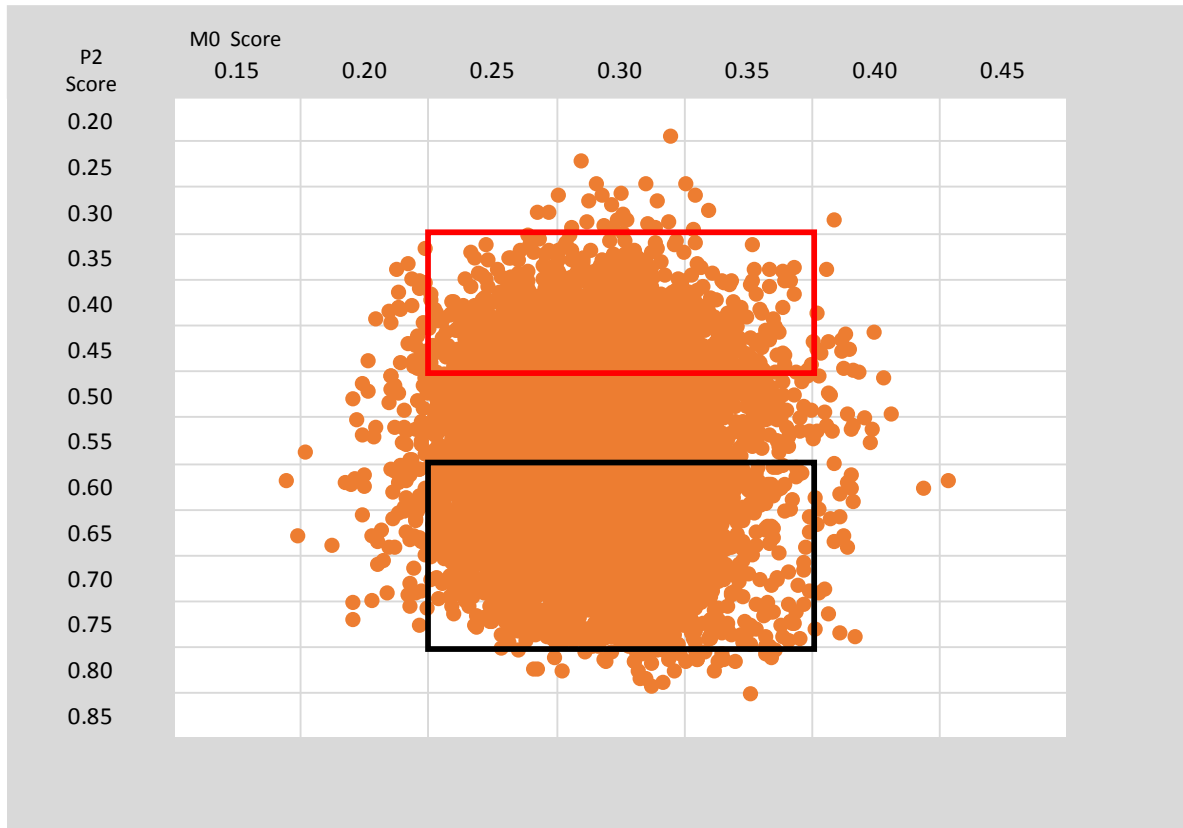
U3+U12

FTIC Applicants
FA13 to FA15

*Previous approach used the “**Flag of Finland**” to subdivide group into regular admits (U3) and provisionals (U12), and focused scholarship awards on higher gpa and sat areas.*



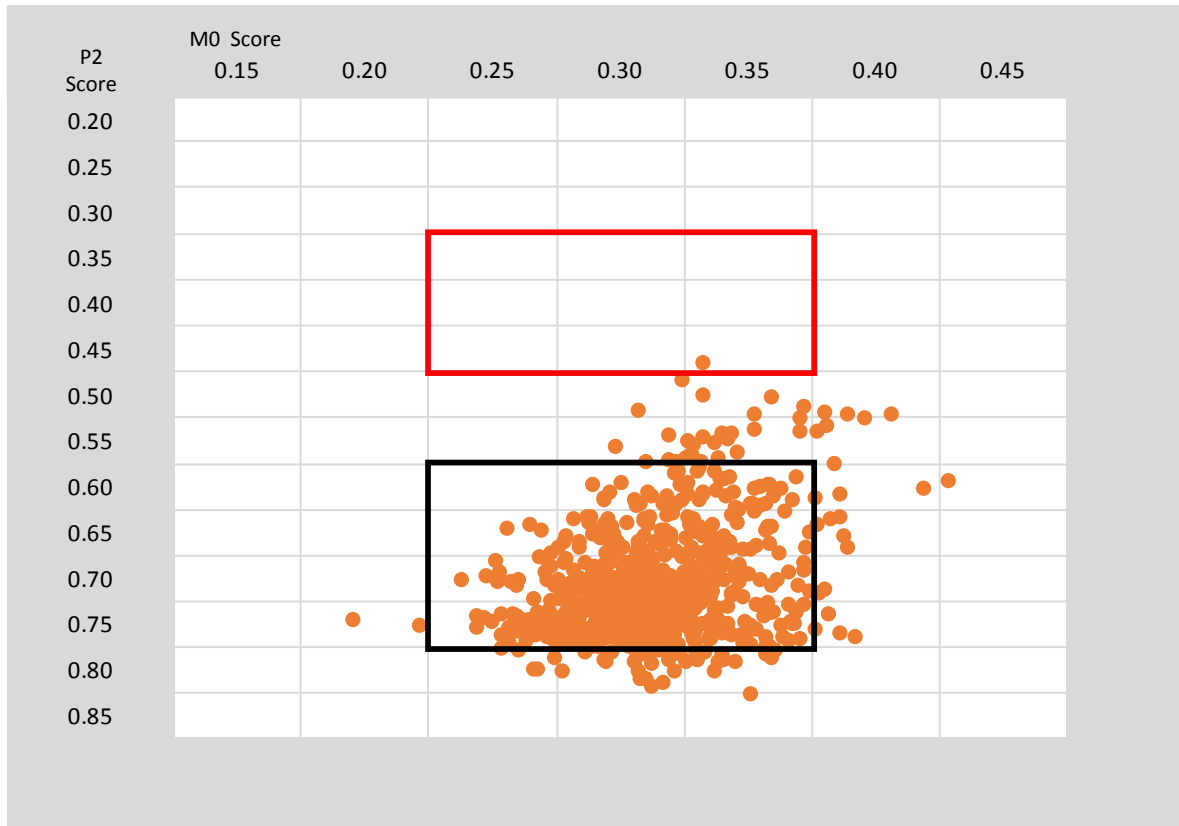
Applicants FA13-FA15



Applicants FA13-FA15

SAT 1700+

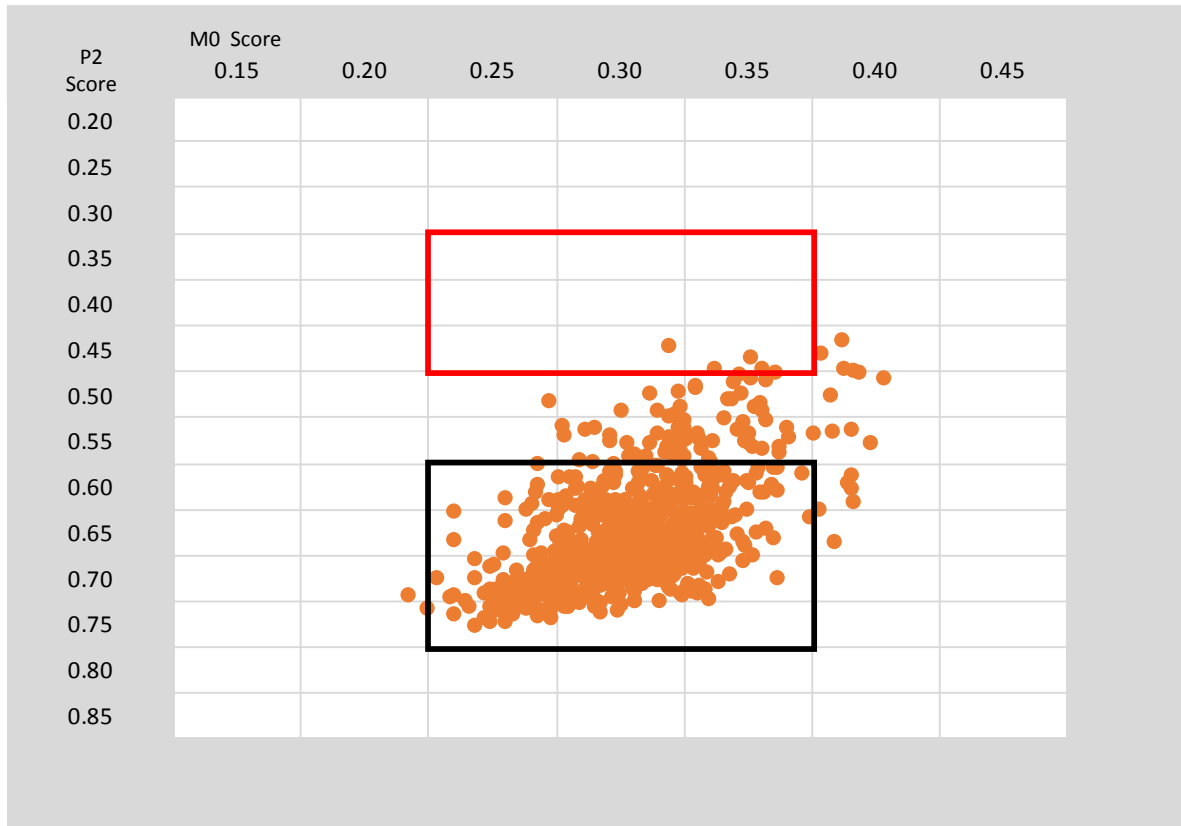
*Highest scholarship
previously*



Applicants FA13-FA15

SAT 1100-1169

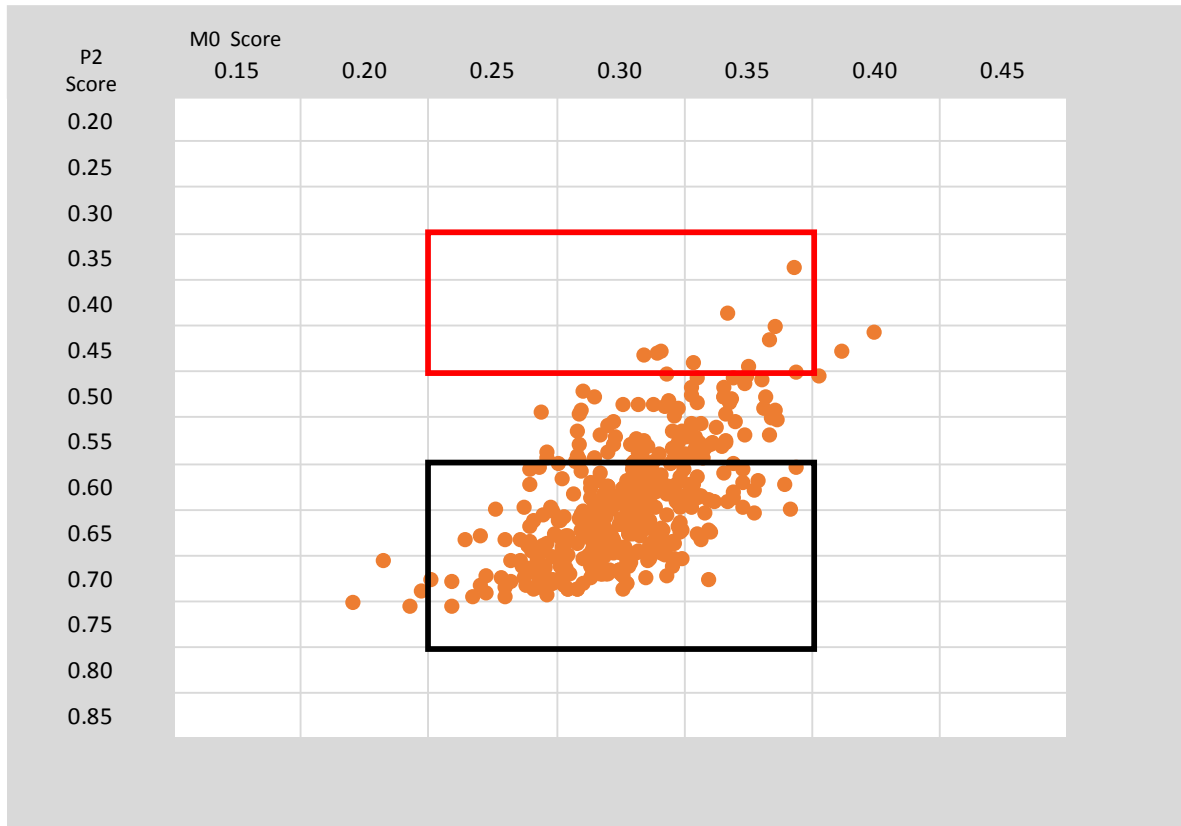
*Middle scholarship
previously*



Applicants FA13-FA15

SAT 1070-1099

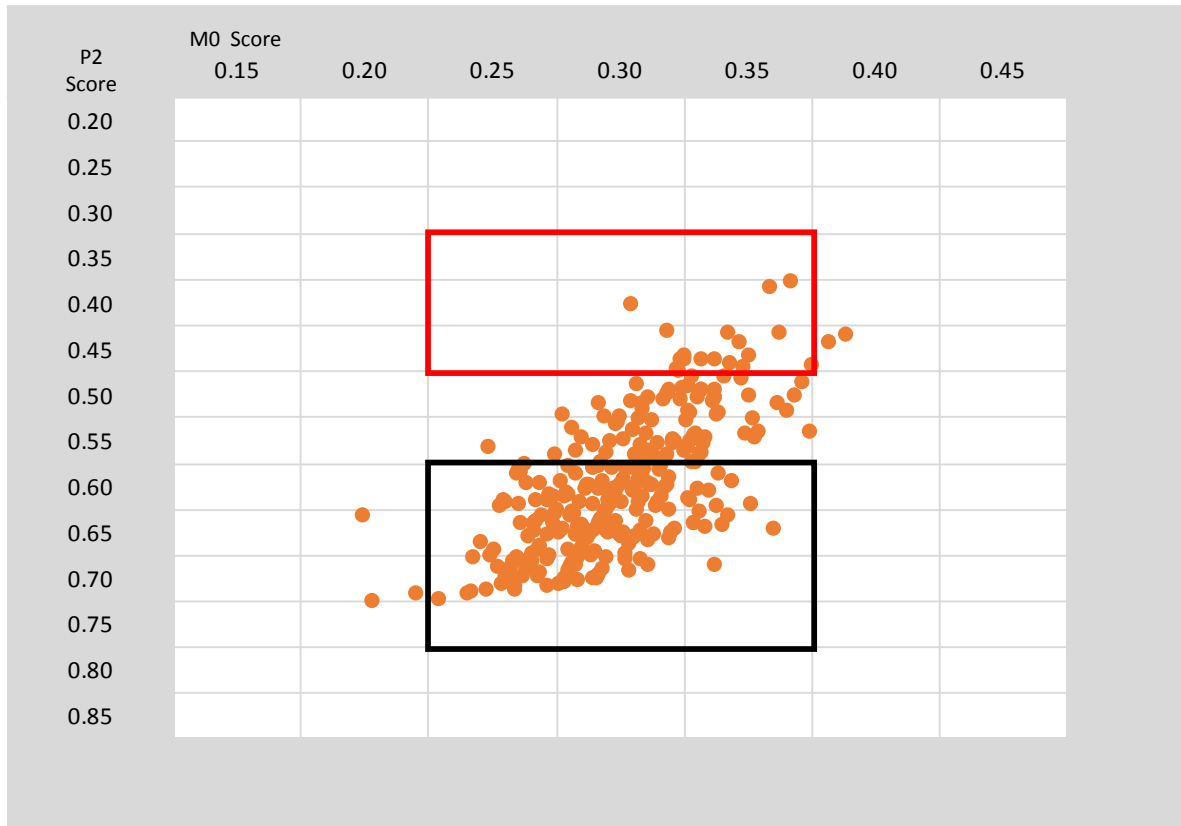
*Lowest scholarship
previously*



Applicants FA13-FA15

SAT 1050-1069

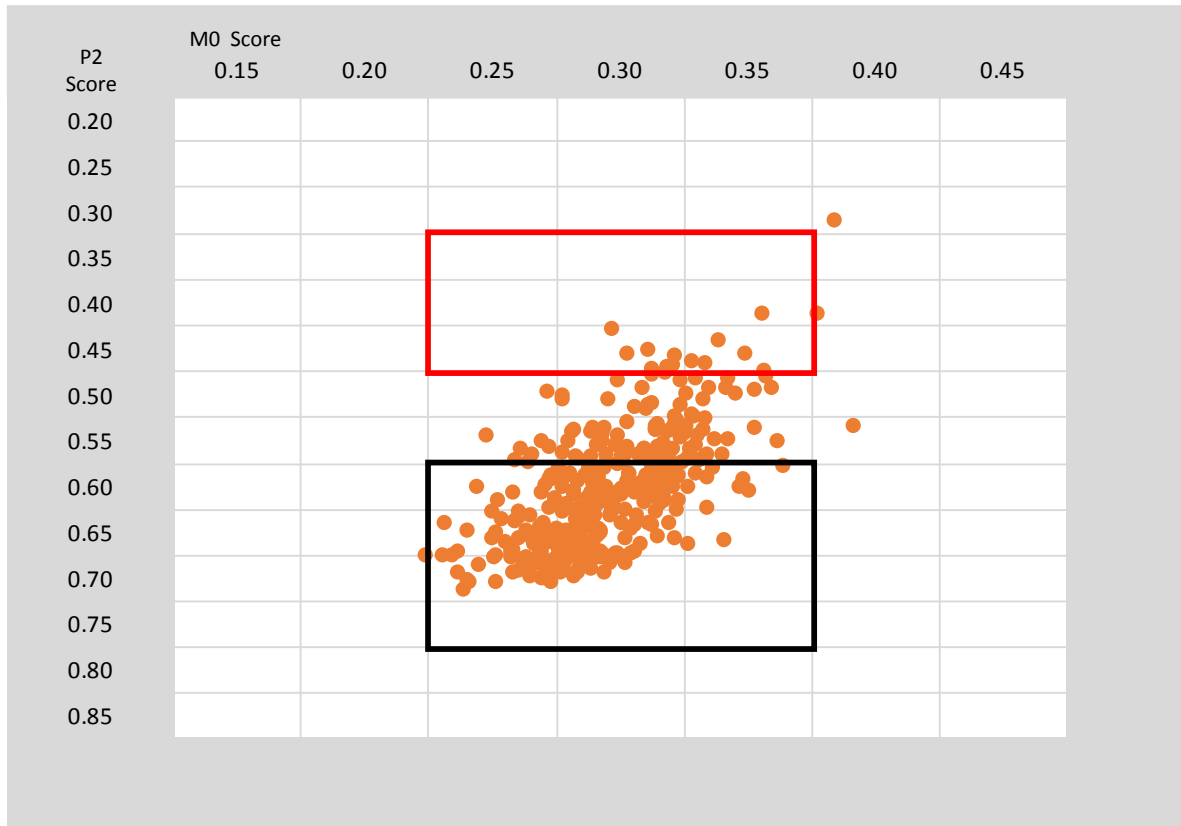
*No scholarships
previously*



Applicants FA13-FA15

SAT 1030-1049

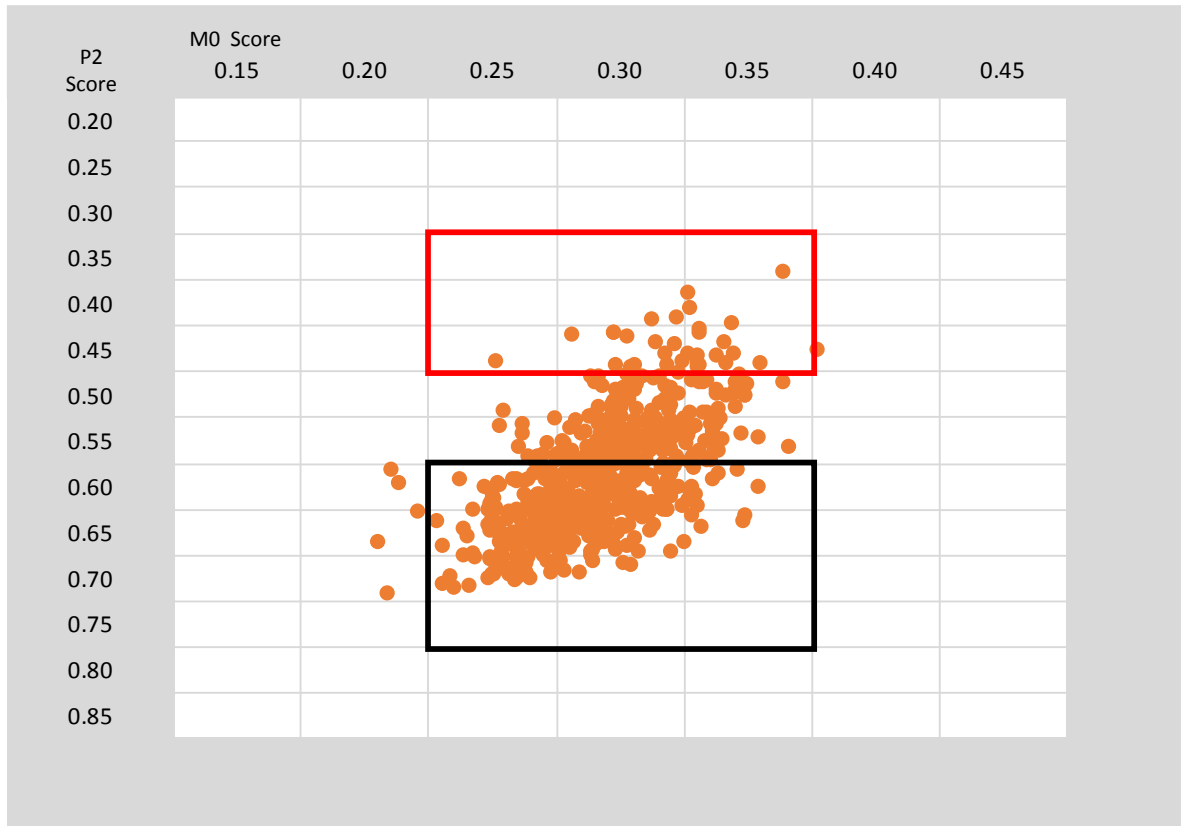
*No scholarships
previously*



Applicants FA13-FA15

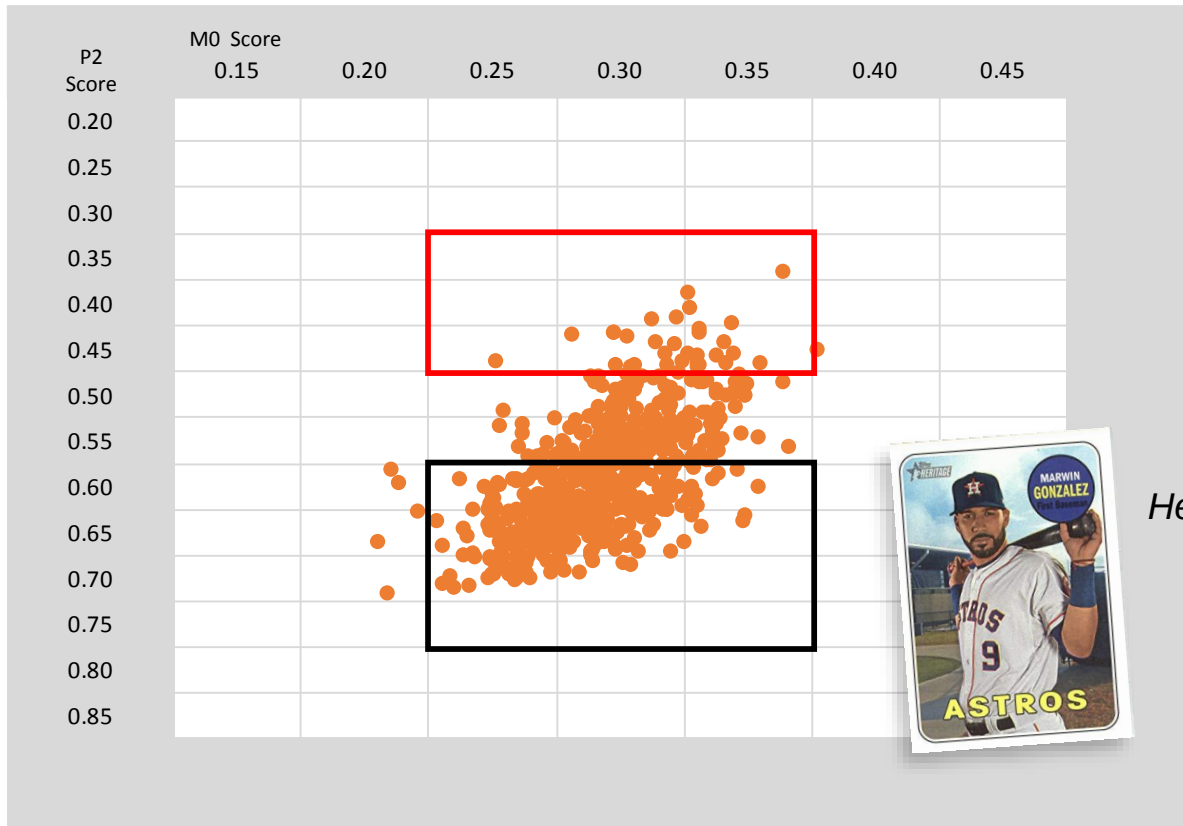
SAT 1000-1029

*No scholarships
previously*



Applicants FA13-FA15

SAT 1000-1029

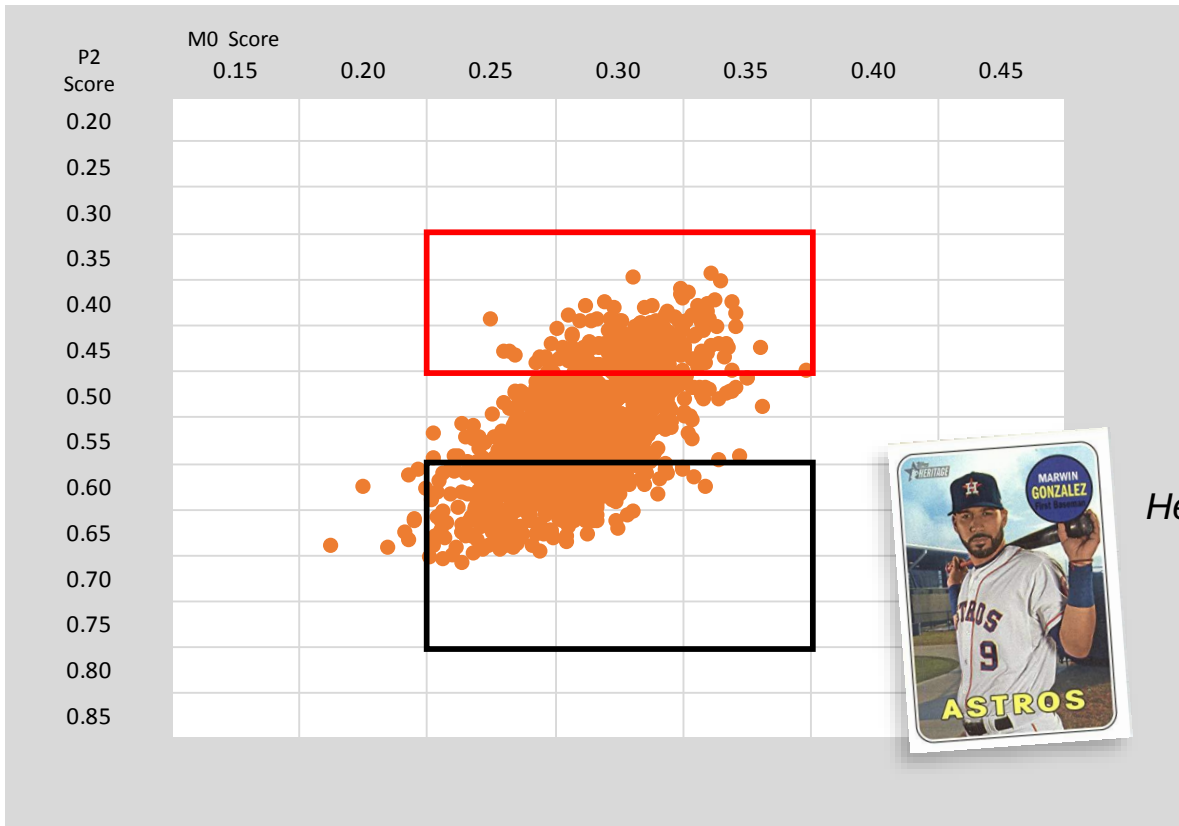


Hello, Marwin Gonzalez.

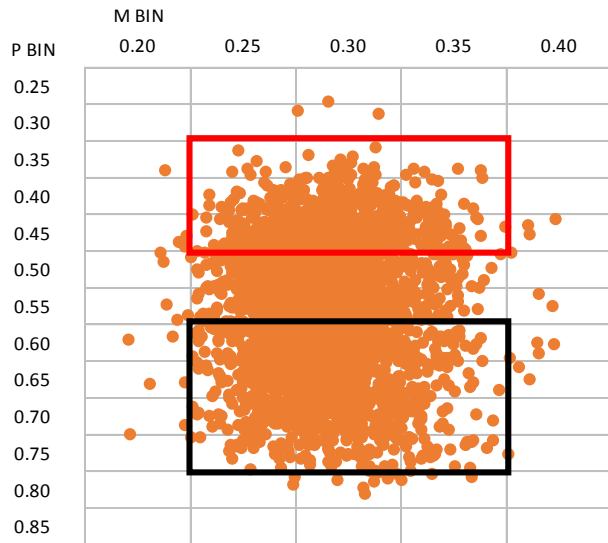
Applicants FA13-FA15

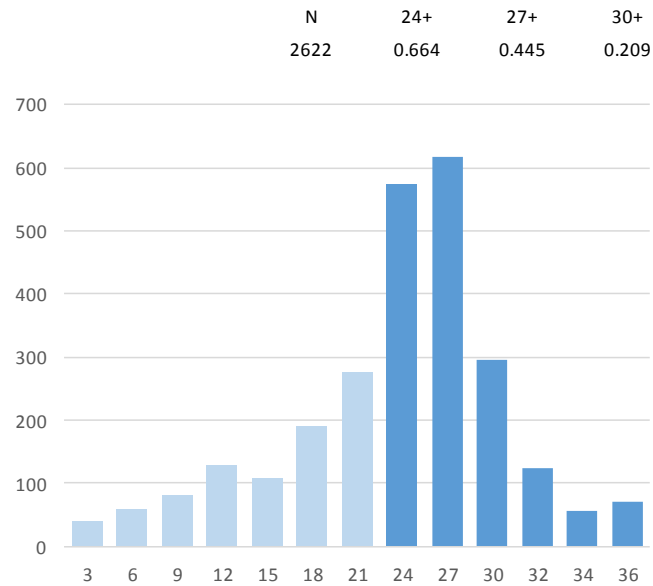
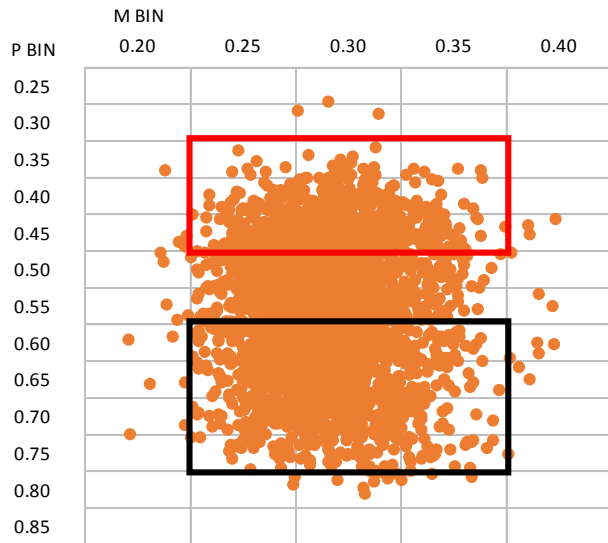
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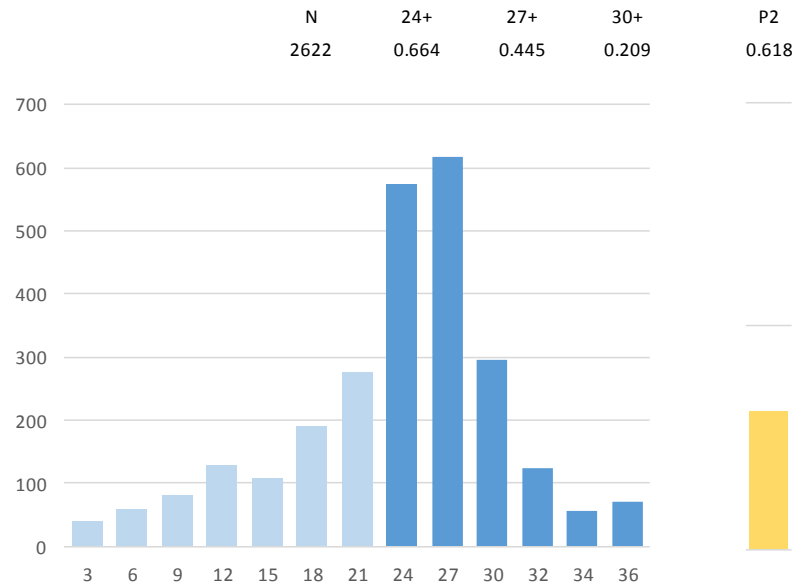
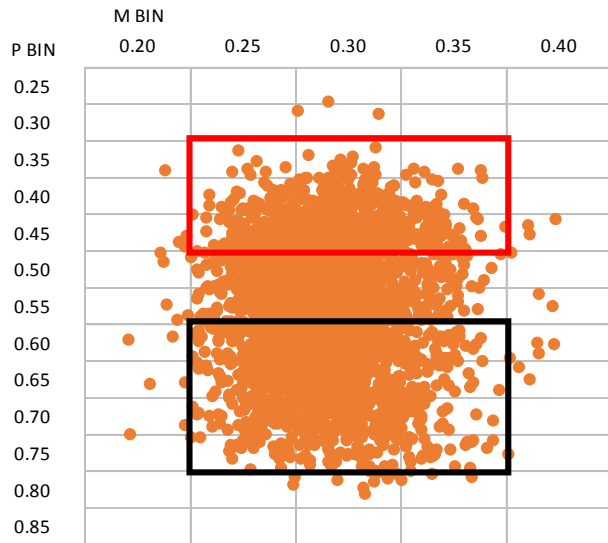
*Provisional status
previously*

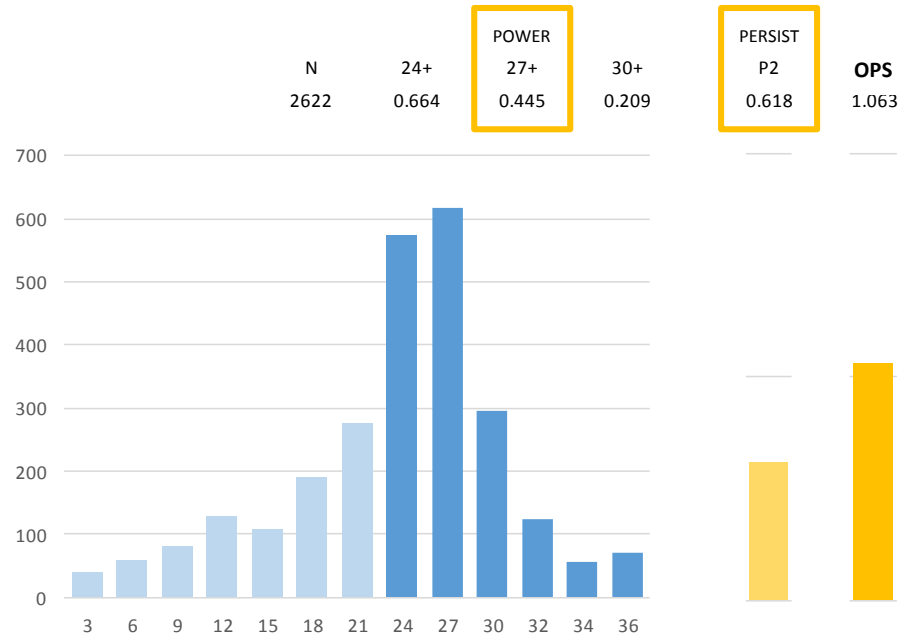
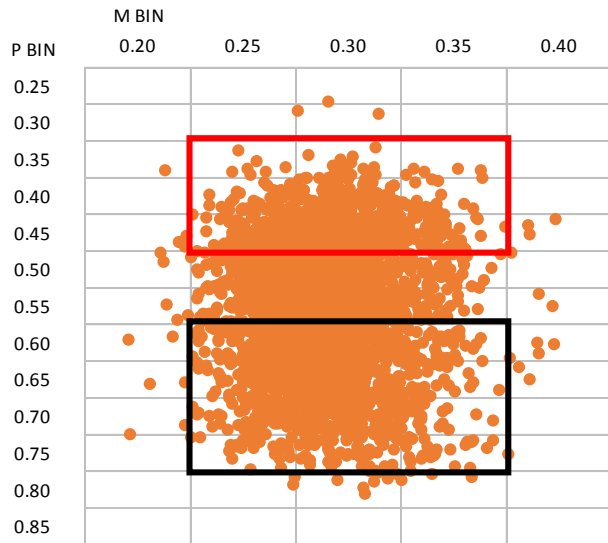


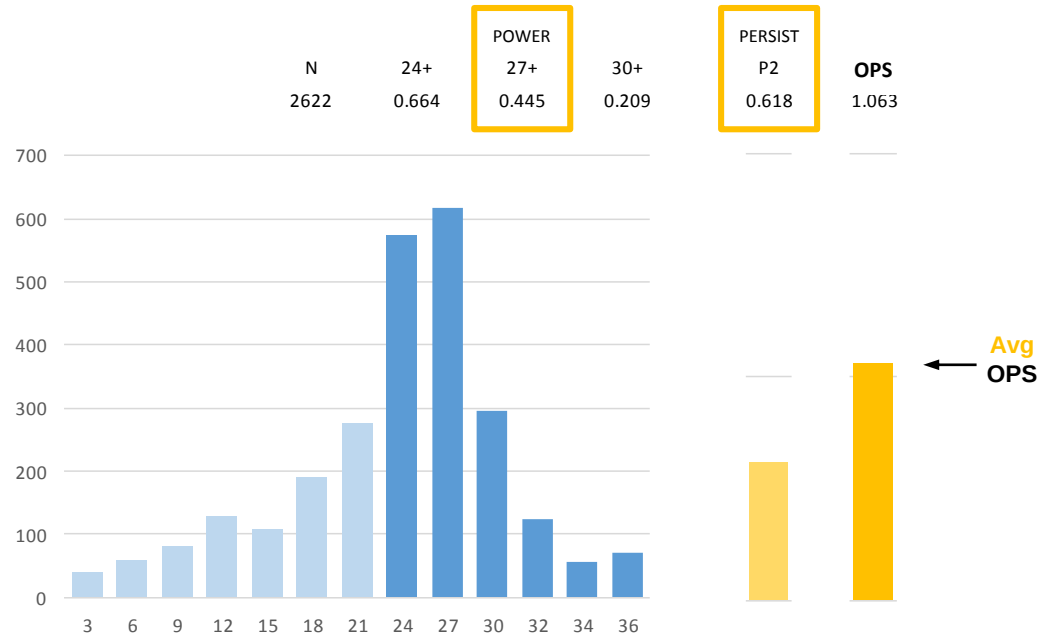
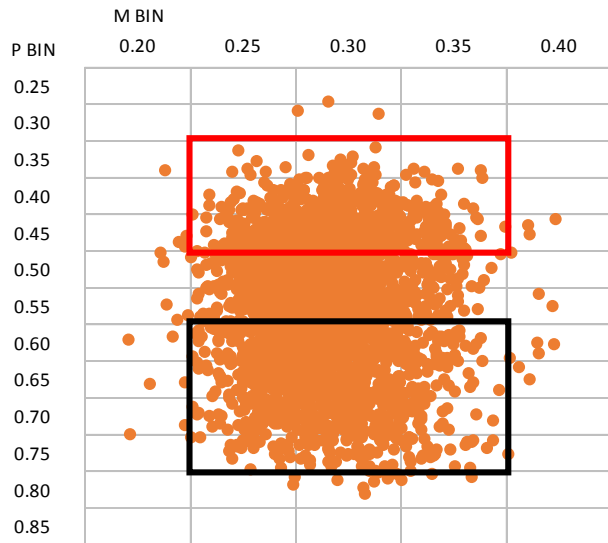
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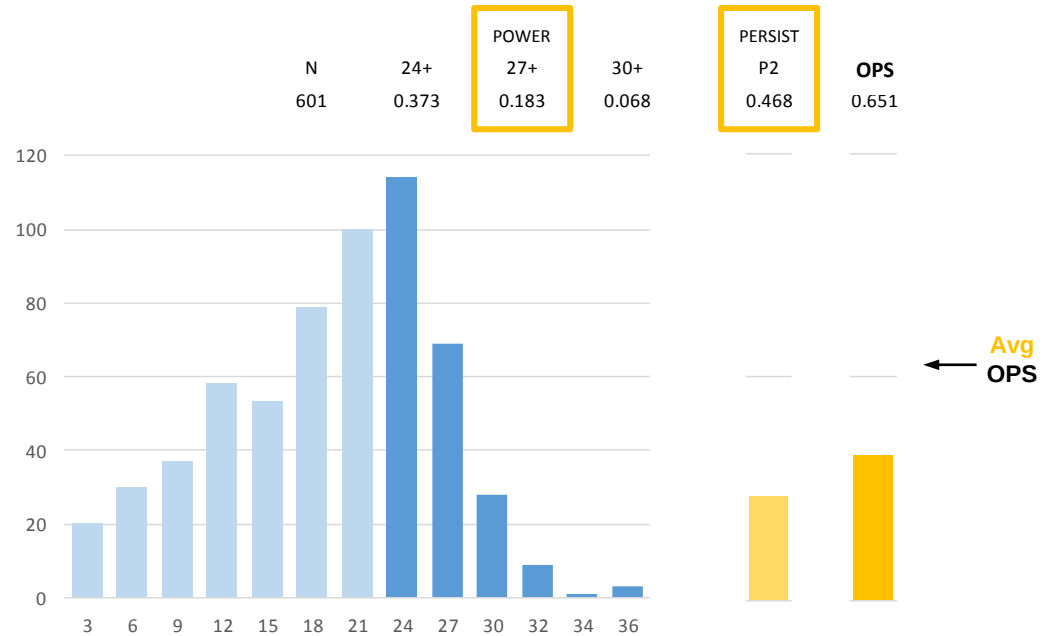
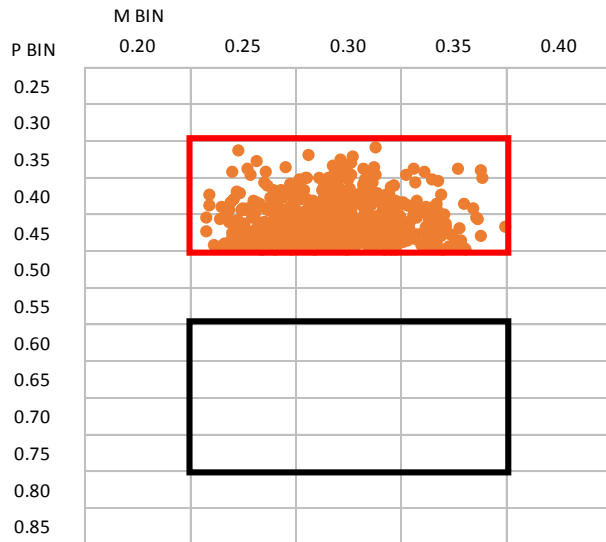


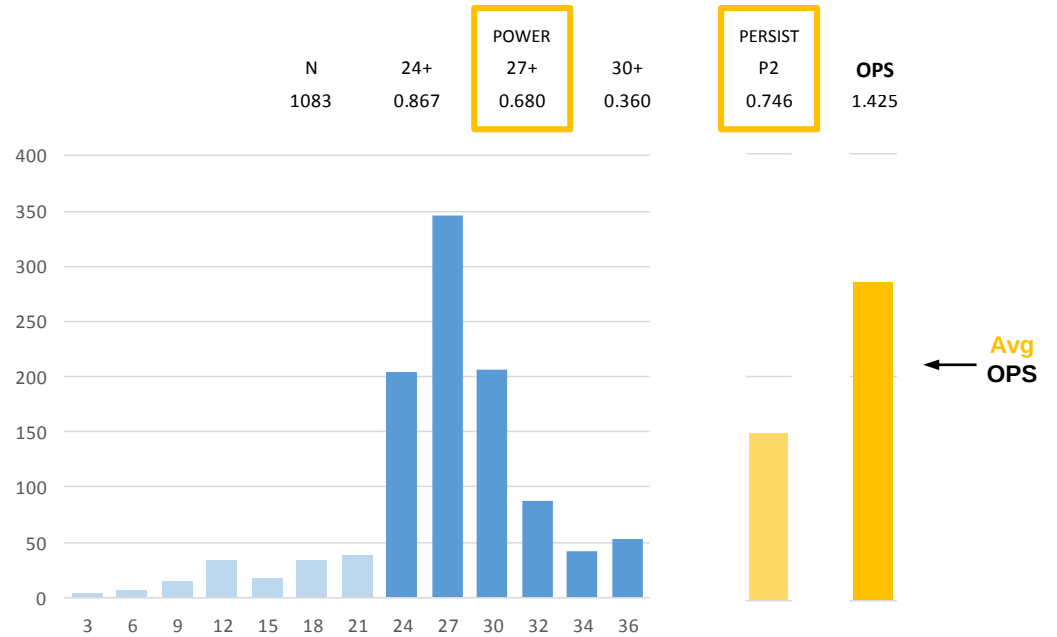
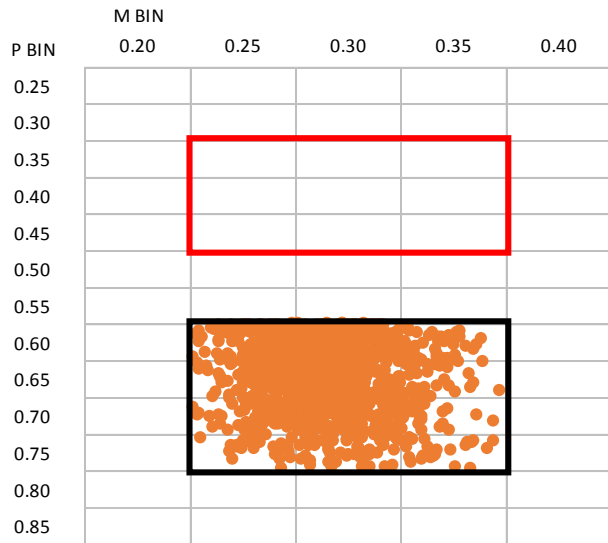


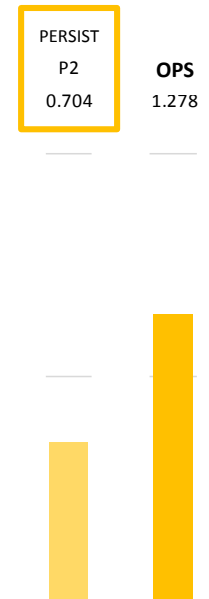
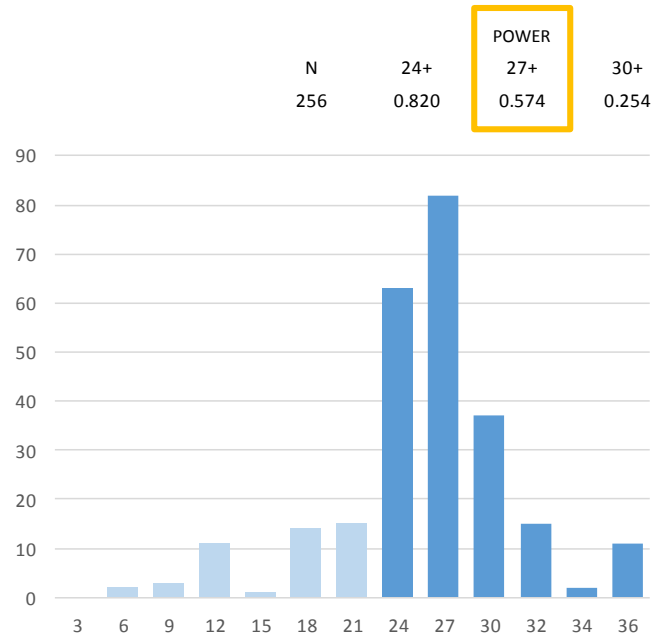
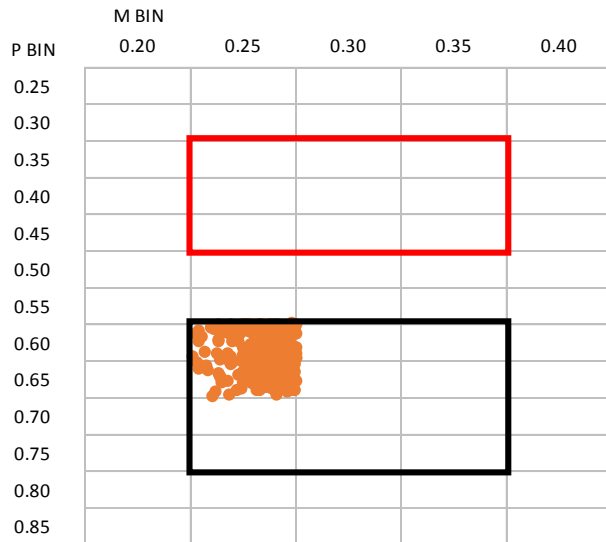


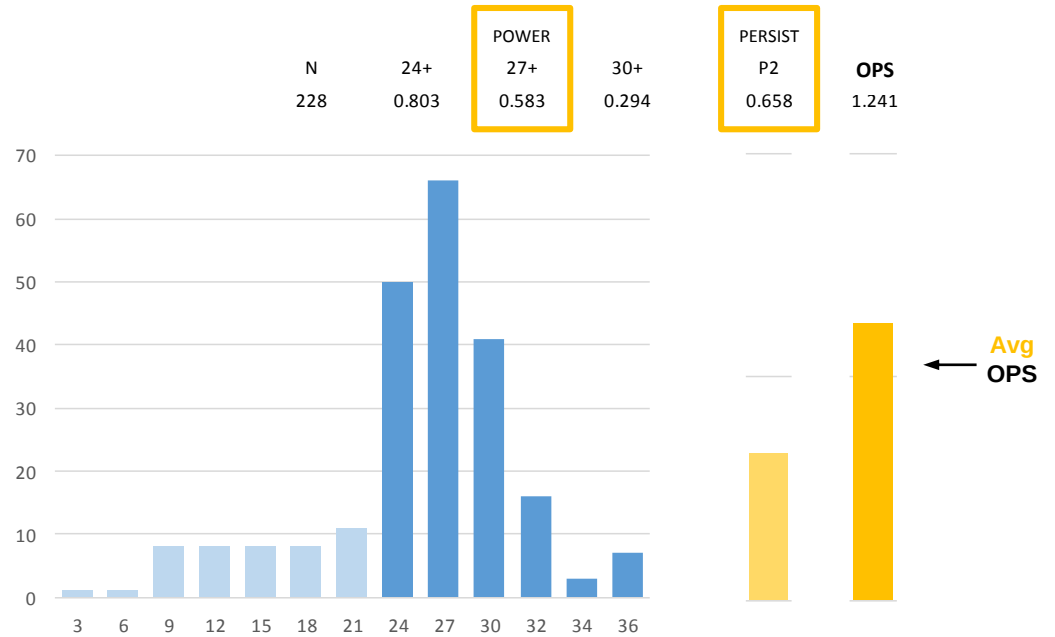
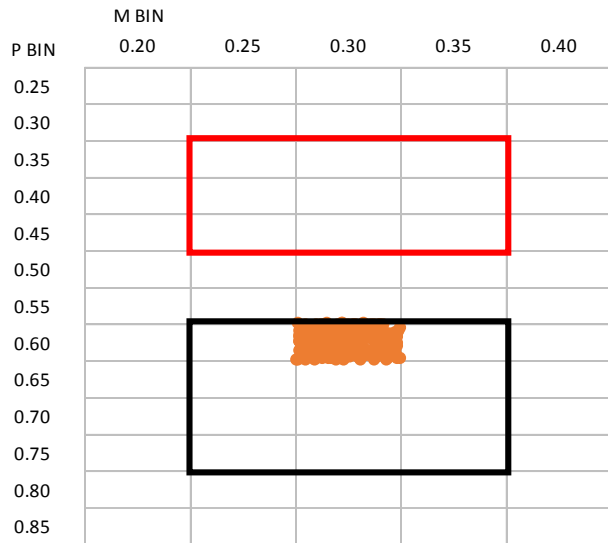


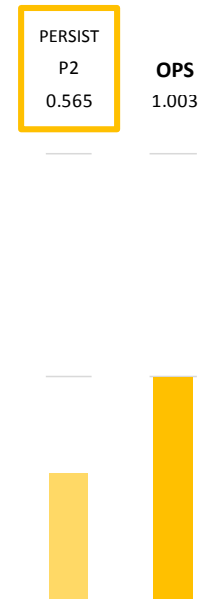
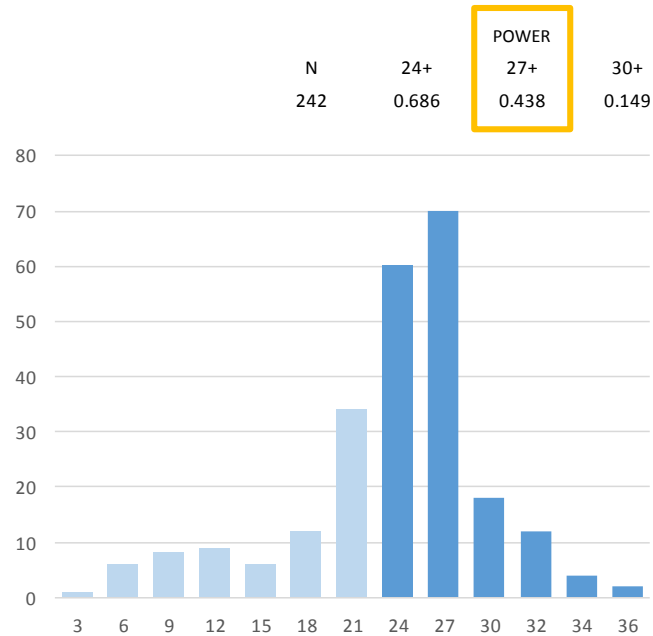
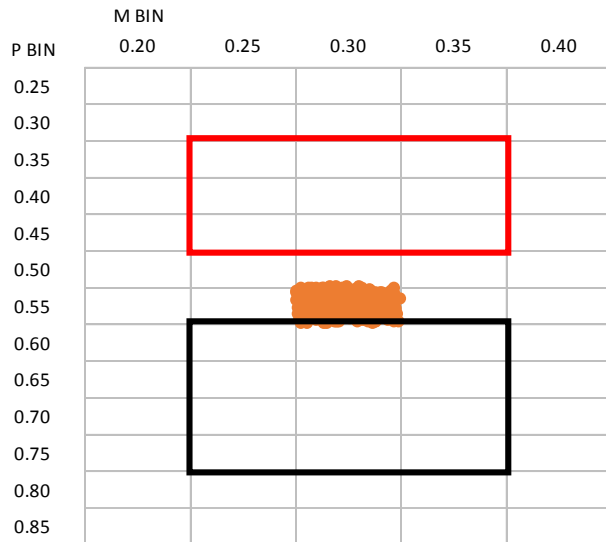


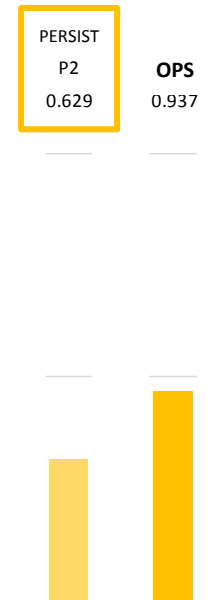
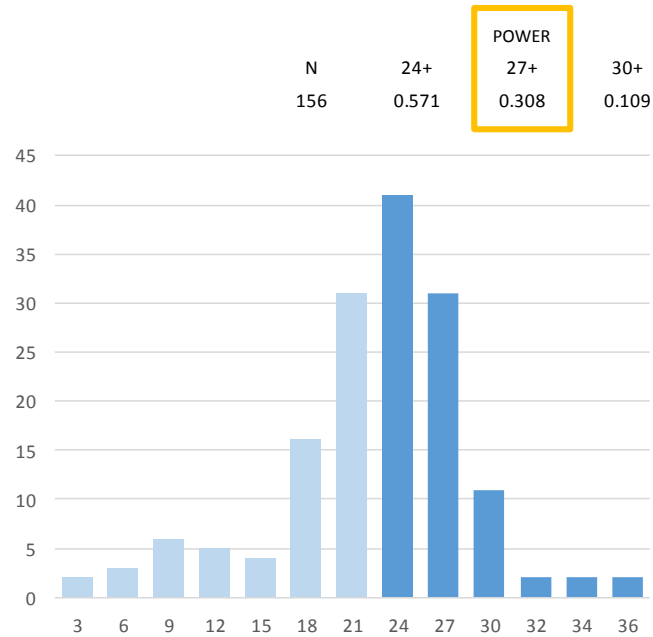
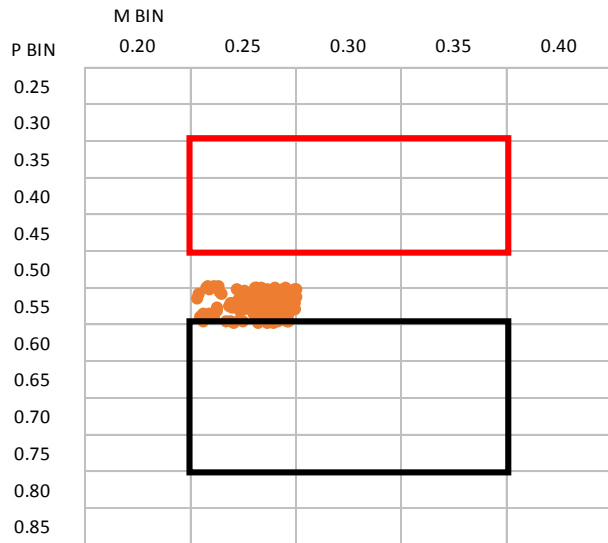




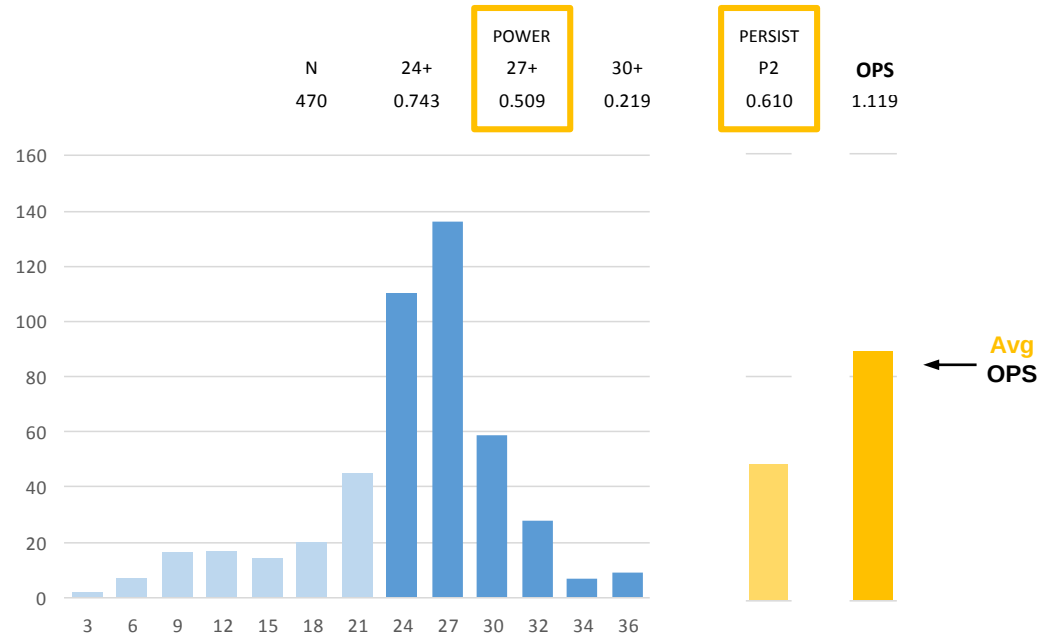
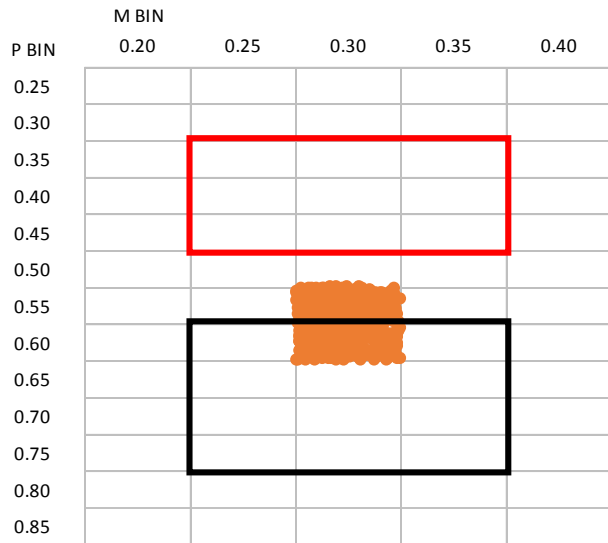


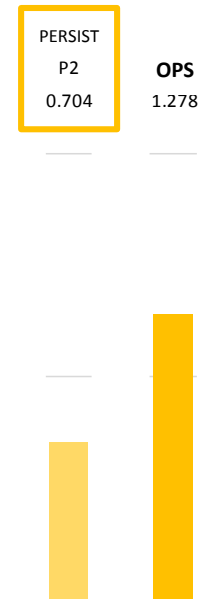
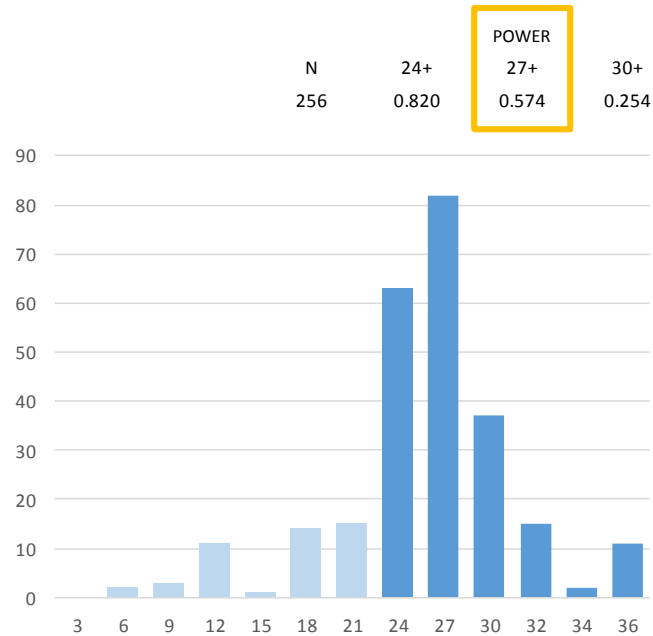
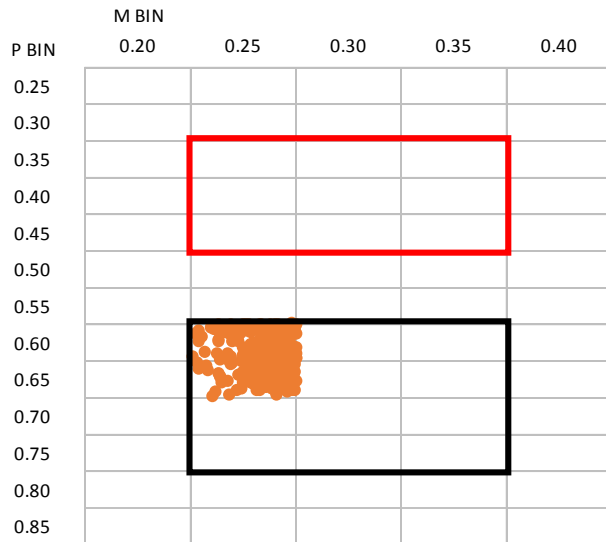


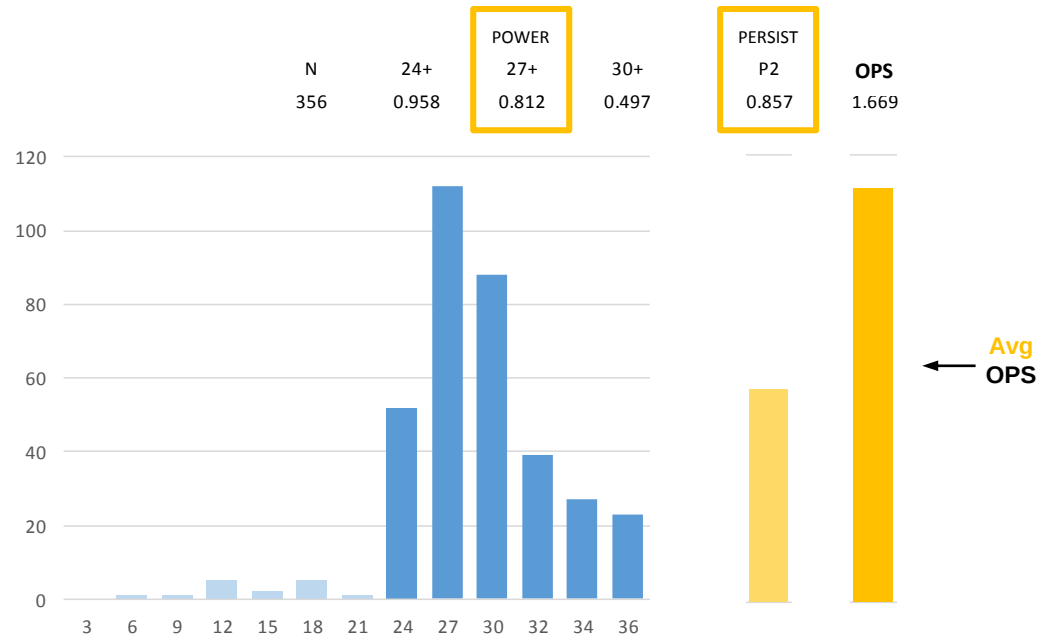
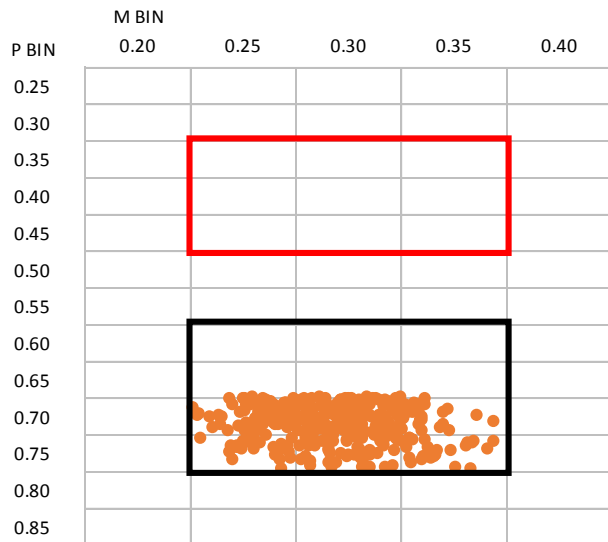


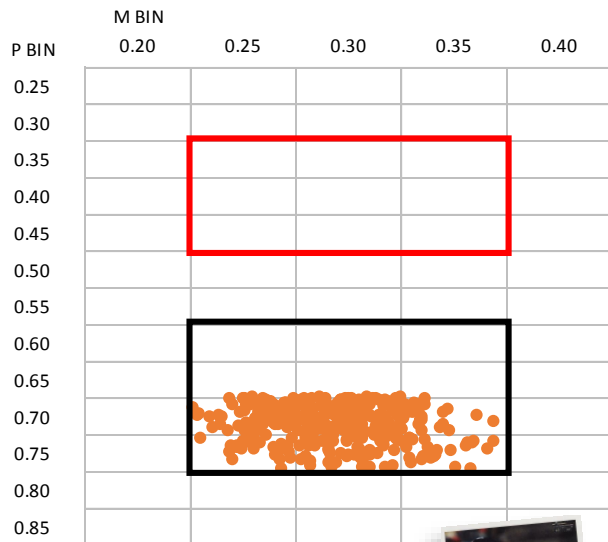


Avg
OPS

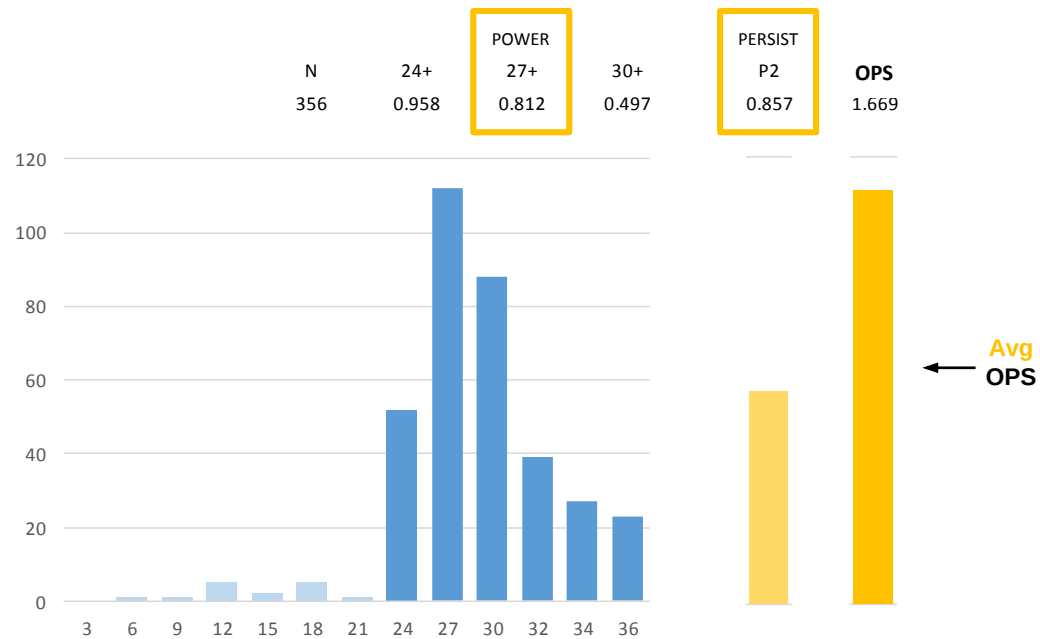








Hello, \$33mm.



MO rates among applicants

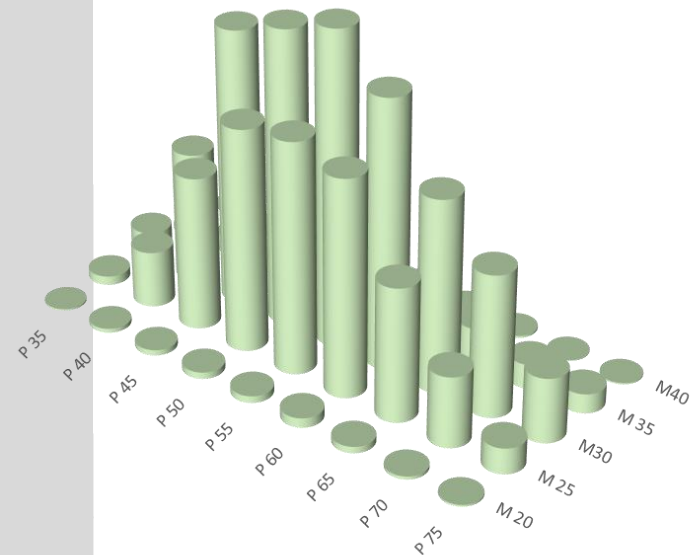
P2 Score	MO Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	1.000	1.000	.	.
0.30	.	.	0.000	0.550	0.667	0.000	.
0.35	.	0.500	0.423	0.329	0.600	0.000	.
0.40	.	0.083	0.327	0.339	0.392	0.000	.
0.45	.	0.250	0.327	0.353	0.445	0.400	.
0.50	.	0.158	0.292	0.321	0.342	0.125	.
0.55	.	0.100	0.284	0.317	0.344	0.273	.
0.60	0.000	0.179	0.273	0.327	0.344	0.375	1.000
0.65	0.000	0.105	0.324	0.349	0.321	0.500	.
0.70	.	0.222	0.404	0.370	0.347	0.000	.
0.75	.	0.400	0.382	0.374	0.404	0.250	.
0.80	.	.	0.400	0.423	0.286	.	.
0.85	.	.	.	.	0.000	.	.

The Sweet Spot

Above average persistence rates are attractive, but below average matriculation rates are a concern and challenge.

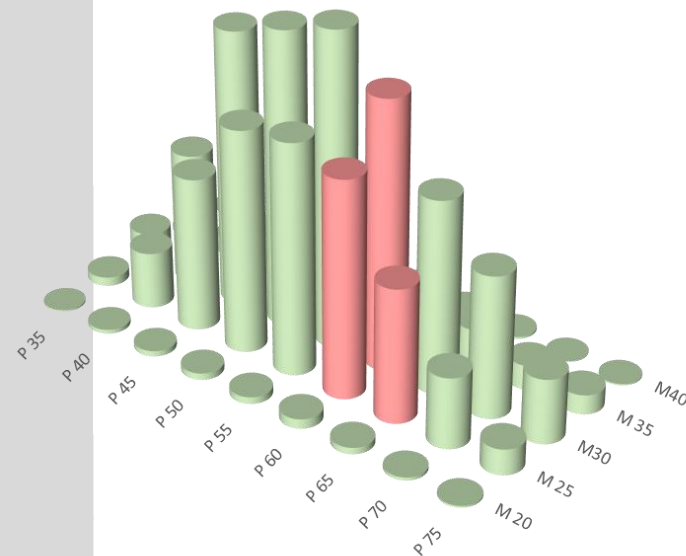
MO rates among applicants

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	1.000	1.000	.	.
0.30	.	.	0.000	0.550	0.667	0.000	.
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0.40	.	0.083	0.327	0.339	0.392	0.000	.
0.45	.	0.250	0.327	0.353	0.445	0.400	.
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0.60	0.000	0.179	0.273	0.327	0.344	0.375	1.000
0.65	0.000	0.105	0.324	0.349	0.321	0.500	.
0.70	.	0.222	0.404	0.370	0.347	0.000	.
0.75	.	0.400	0.382	0.374	0.404	0.250	.
0.80	.	.	0.400	0.423	0.286	.	.
0.85	.	.	.	.	0.000	.	.



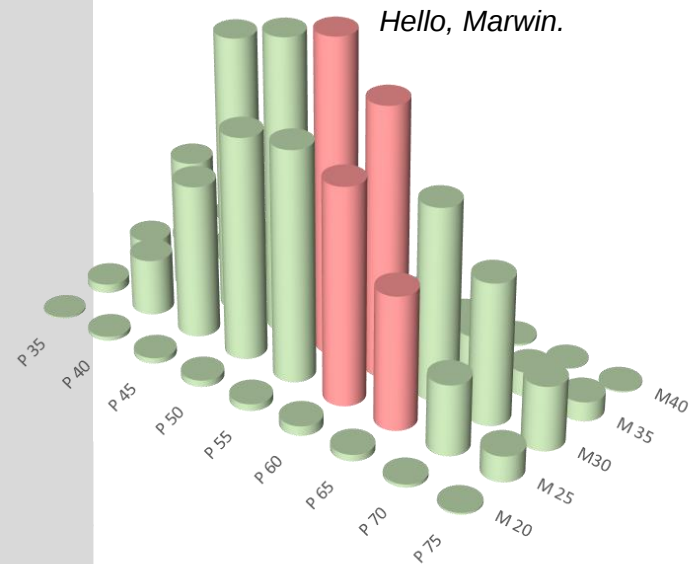
MO rates among applicants

P2 Score	M0 Score						
	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	1.000	1.000	.	.
0.30	.	.	0.000	0.550	0.667	0.000	.
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0.65	0.000	0.105	0.324	0.349	0.321	0.500	.
0.70	.	0.222	0.404	0.370	0.347	0.000	.
0.75	.	0.400	0.382	0.374	0.404	0.250	.
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0.85	.	.	.	.	0.000	.	.



MO rates among applicants

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0.20	.	.	.	1.000	.	.	.
0.25	.	.	.	1.000	1.000	.	.
0.30	.	.	0.000	0.550	0.667	0.000	.
0.35	.	0.500	0.423	0.329	0.600	0.000	.
0.40	.	0.083	0.327	0.339	0.392	0.000	.
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0.65	0.000	0.105	0.324	0.349	0.321	0.500	.
0.70	.	0.222	0.404	0.370	0.347	0.000	.
0.75	.	0.400	0.382	0.374	0.404	0.250	.
0.80	.	.	0.400	0.423	0.286	.	.
0.85	.	.	.	.	0.000	.	.



STRATEGIC ENROLLMENT MANAGEMENT CONFERENCE



Hidden in Plain Sight:

A case study into designing sophisticated statistical model grids that leverage student-credit hour production with revenue opportunities to uncover often overlooked students.

Randall Langston *Texas Woman's University*

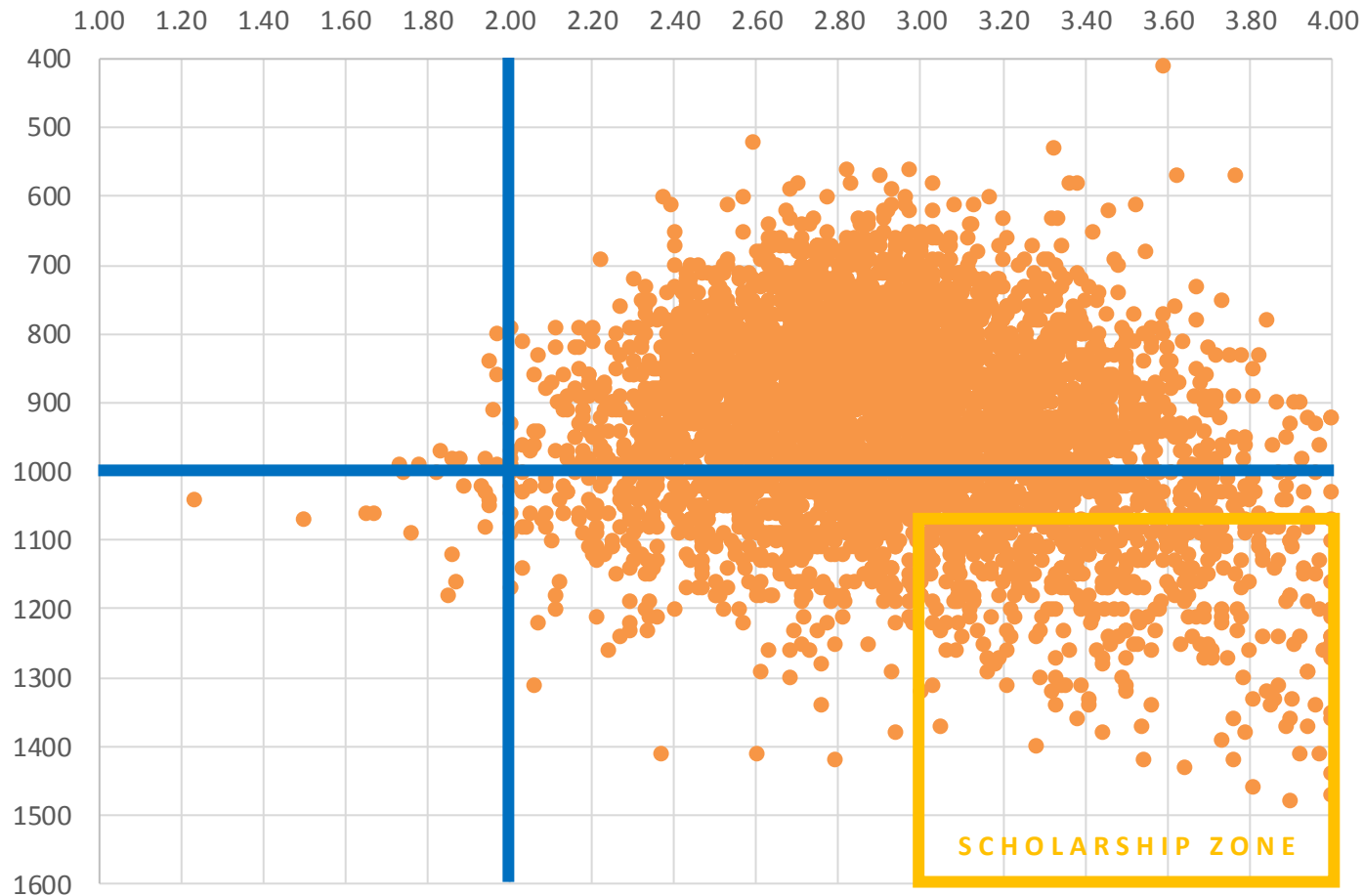
RLangston1@twu.edu

Mark Hamner *Texas Woman's University*

MHamner@twu.edu

Michael Stankey *Texas Woman's University*

MStankey1@twu.edu

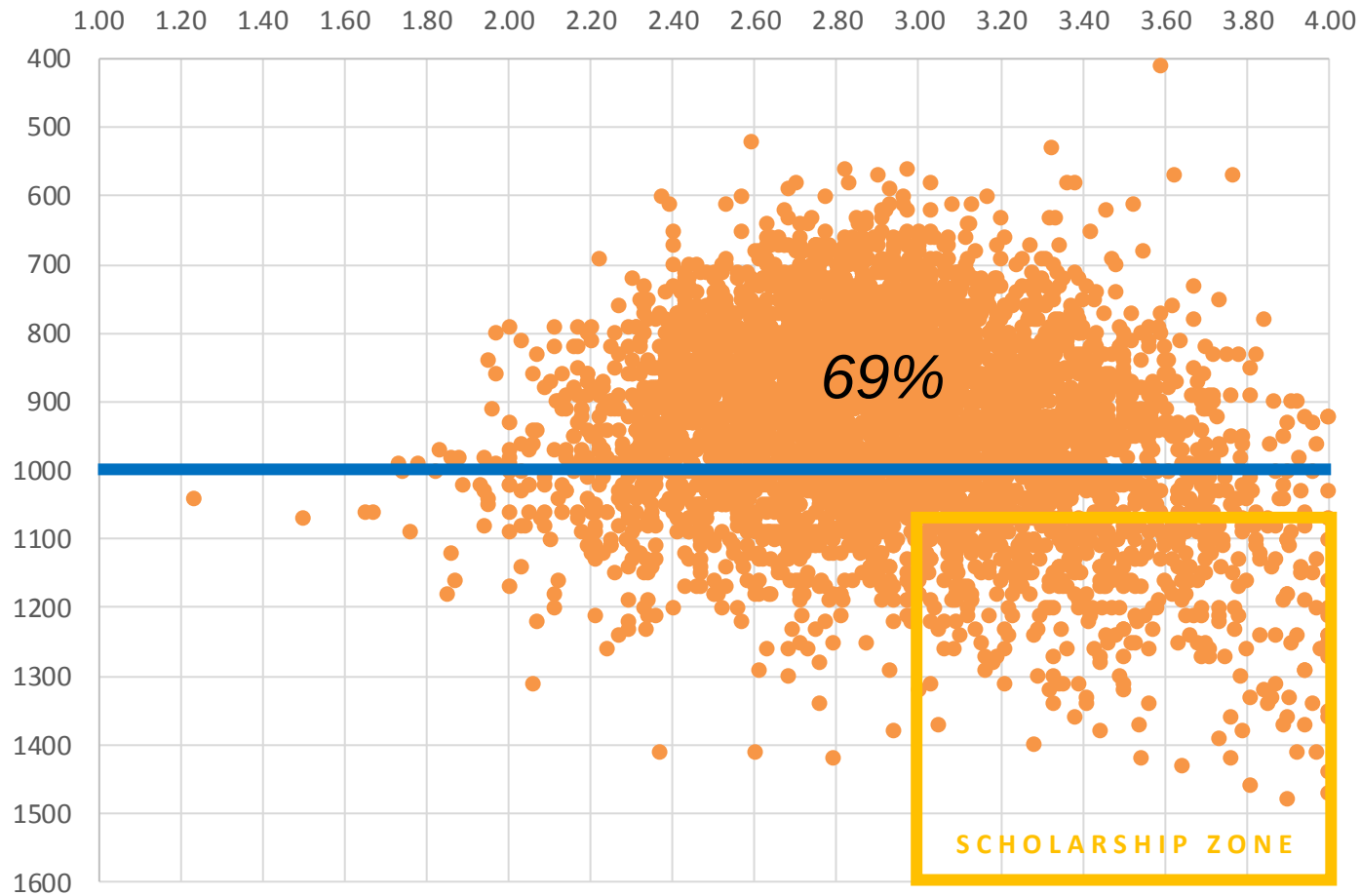


U3+U12

FTIC Applicants
FA13 to FA15

*Previous approach used the “**Flag of Finland**” to subdivide group into regular admits (U3) and provisionals (U12), and focused scholarship awards on higher gpa and sat areas.*



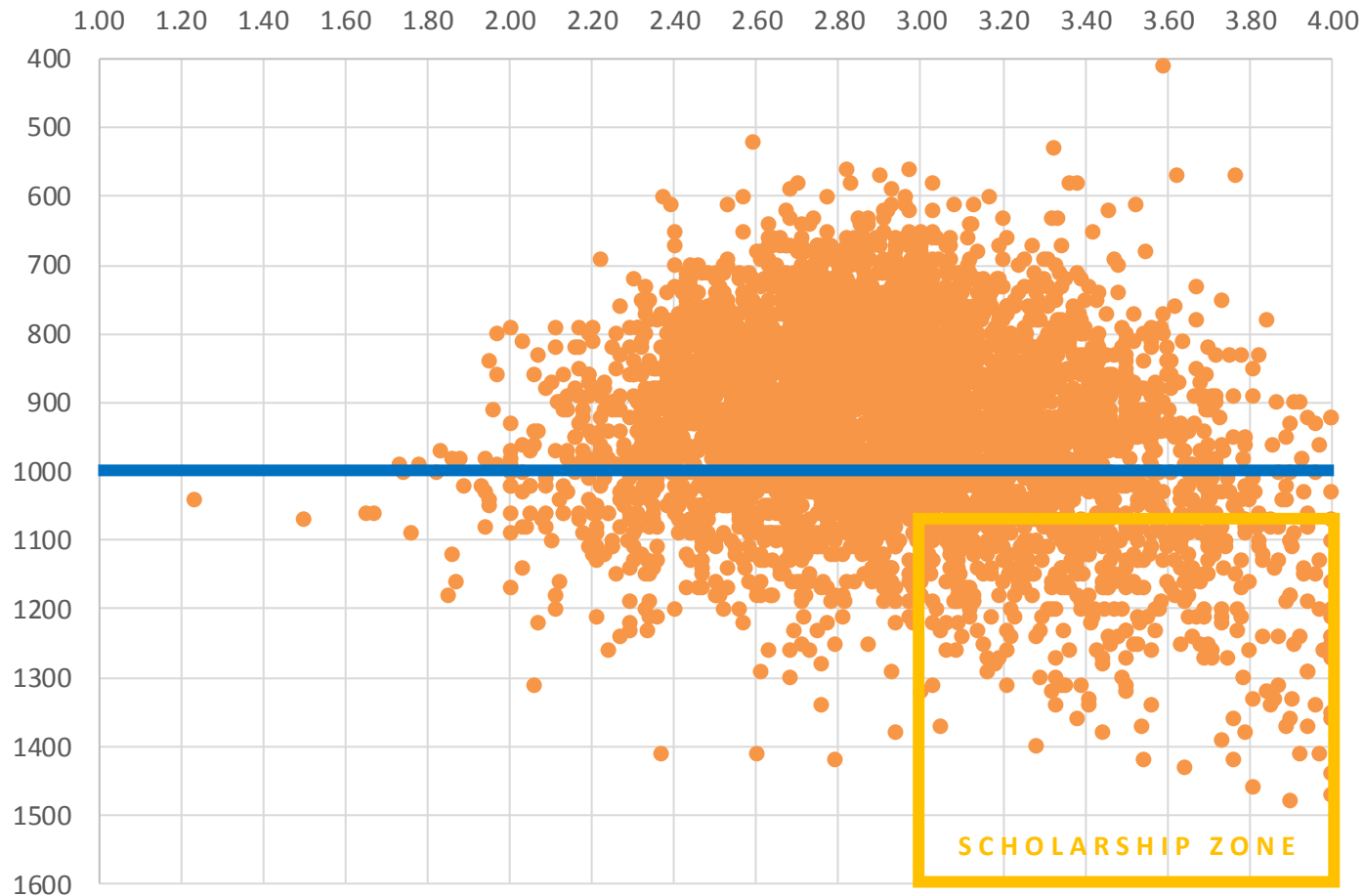


U3+U12

FTIC Applicants
FA13 to FA15

*But 69% of applicants got classified as “provisional” and the 2.00 GPA criterion did little to differentiate, which made it more “**Flag of Monaco**” in practice.*



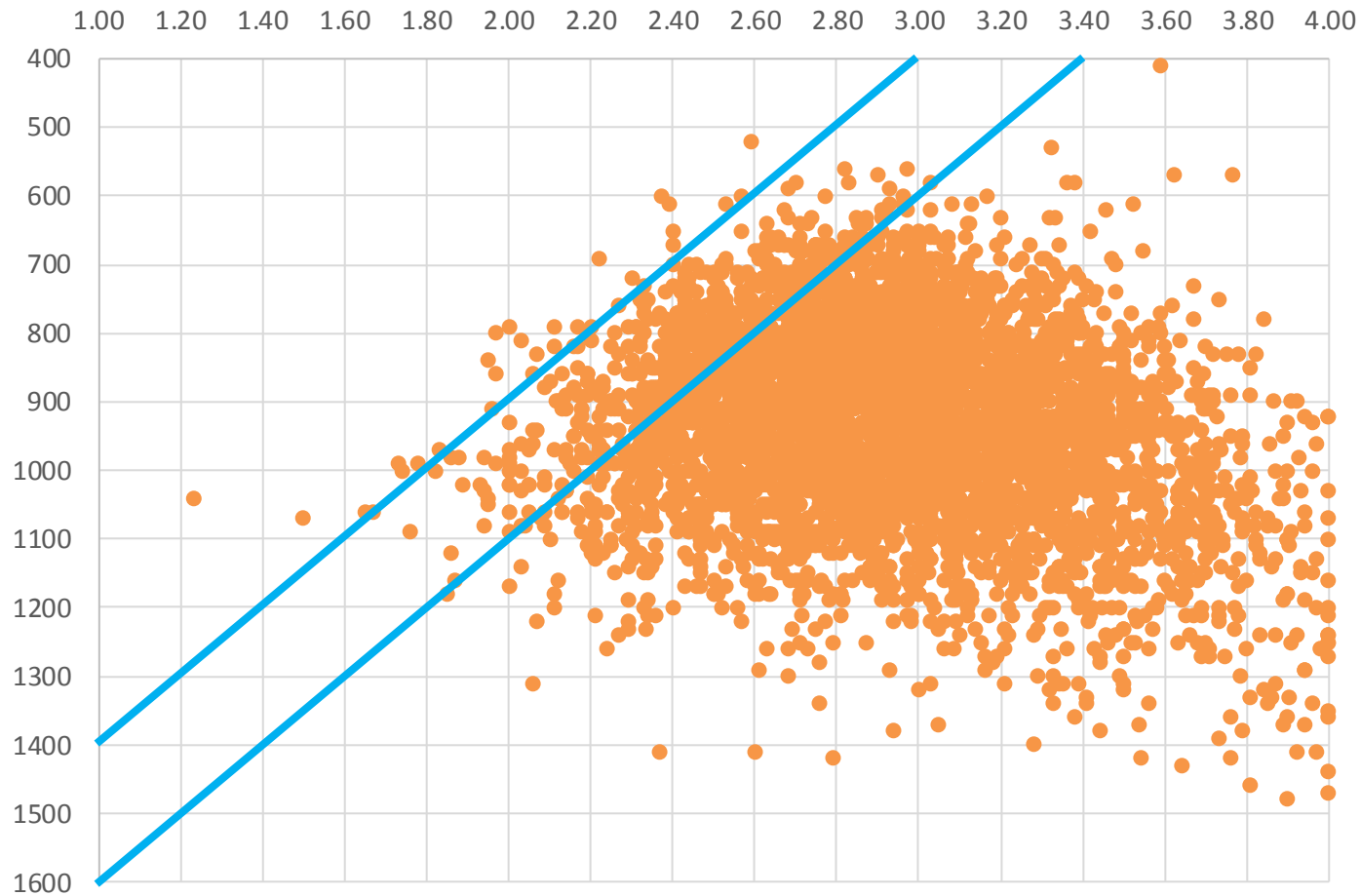


U3+U12

FTIC Applicants
FA13 to FA15

*But 69% of applicants got classified as “provisional” and the 2.00 GPA criterion did little to differentiate, which made it more “**Flag of Monaco**” in practice.*

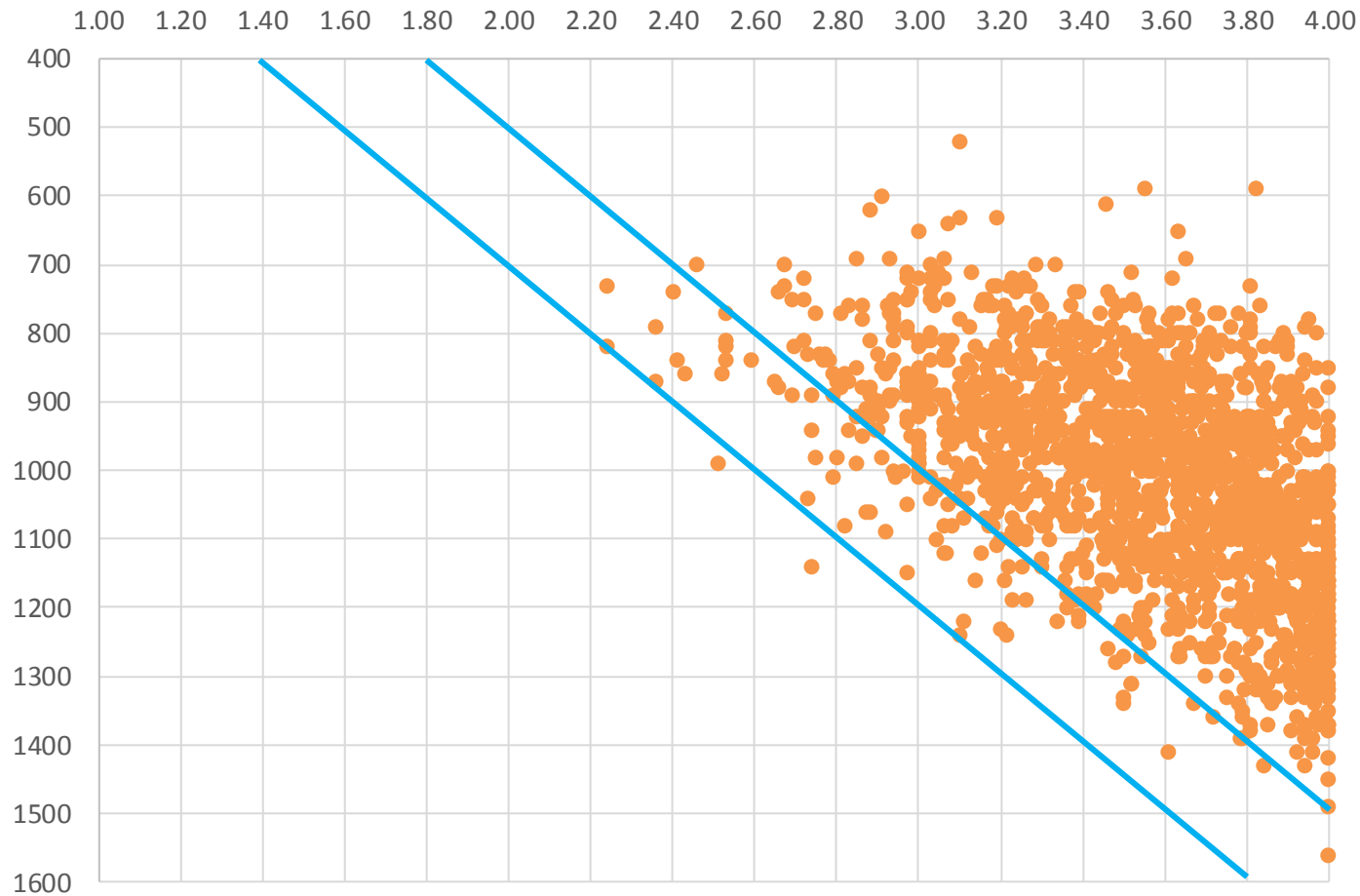
Wouldn't a different decision flag better fit the data?



U3+U12

FTIC Applicants
FA13 to FA15

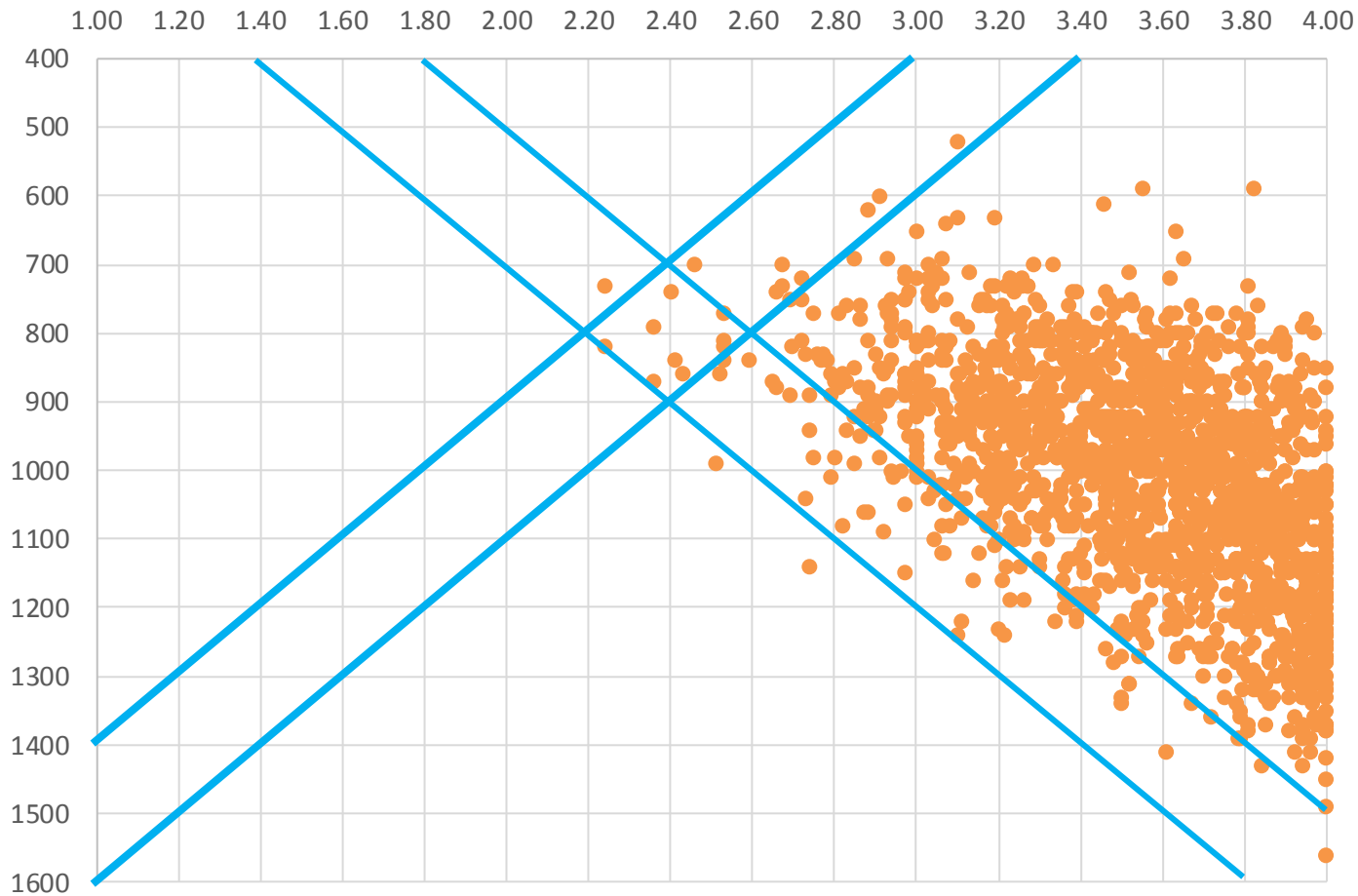
*What if we drew
diagonals to
capture the
possible
“compensatory”
nature of
performance,
where students
are known to
overcome low
SAT scores and
earn high GPAs.*



U1

FTIC Applicants
FA13 to FA15

*And what if
we added cross
diagonals to
reflect the
“expected”
nature of
performance,
where students
with high SAT
scores are
expected to
achieve high
GPAs.*

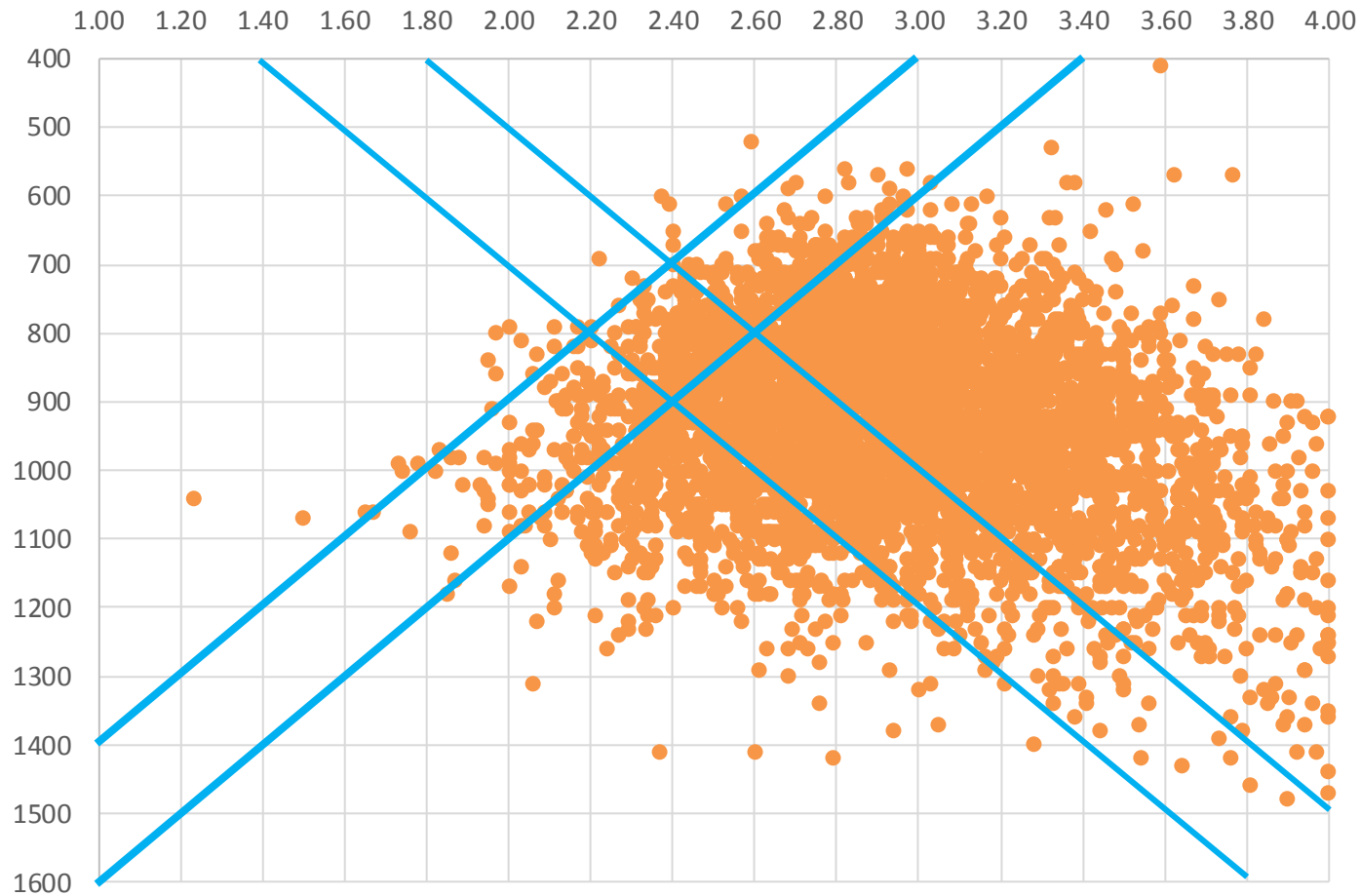


U1

FTIC Applicants
FA13 to FA15

*We'd be left with
a **"Flag of
Scotland"**
framework to
perhaps better
subdivide
applicants into
meaningful
categories.*



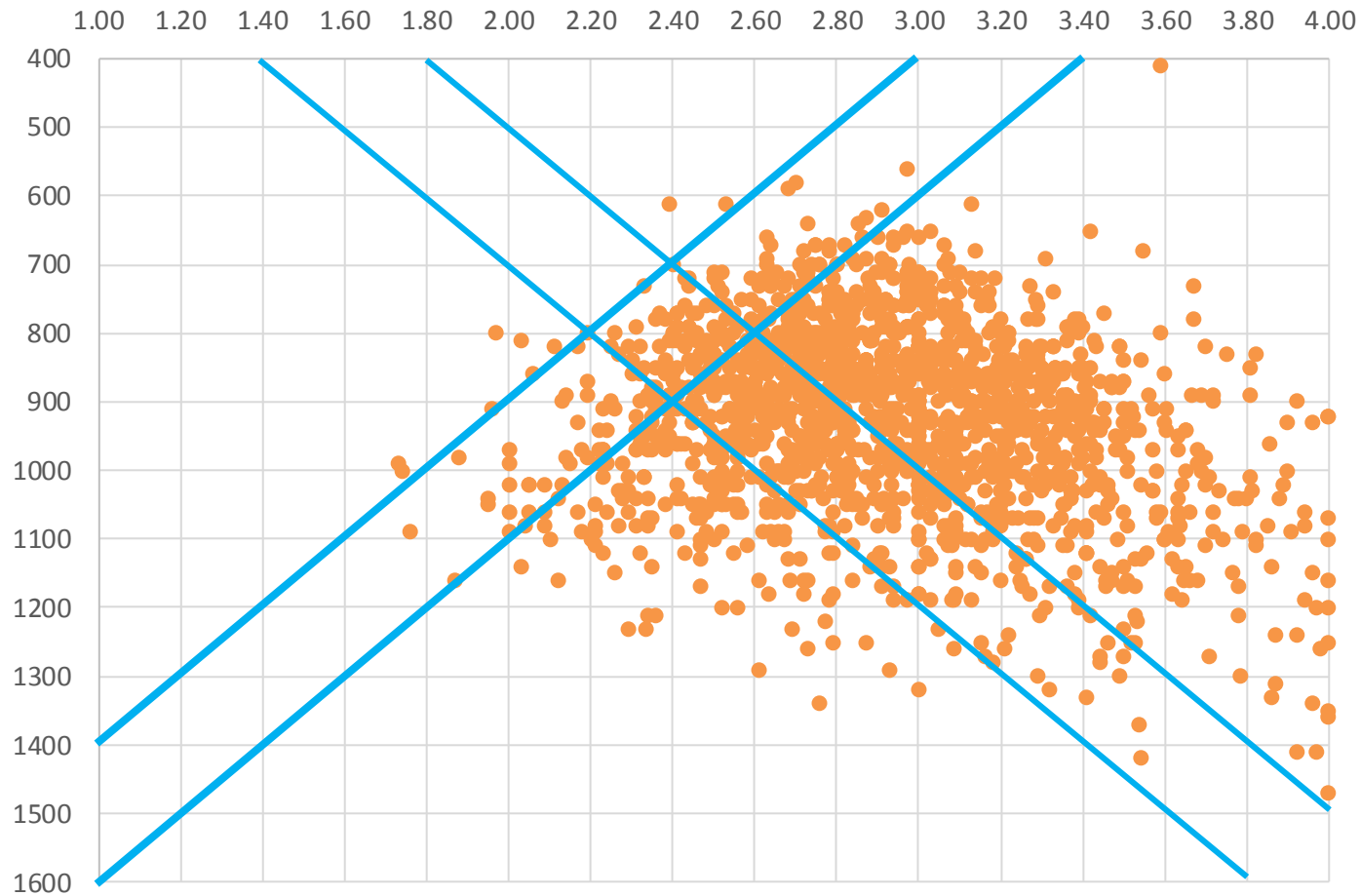


U3+U12

FTIC Applicants
FA13 to FA15

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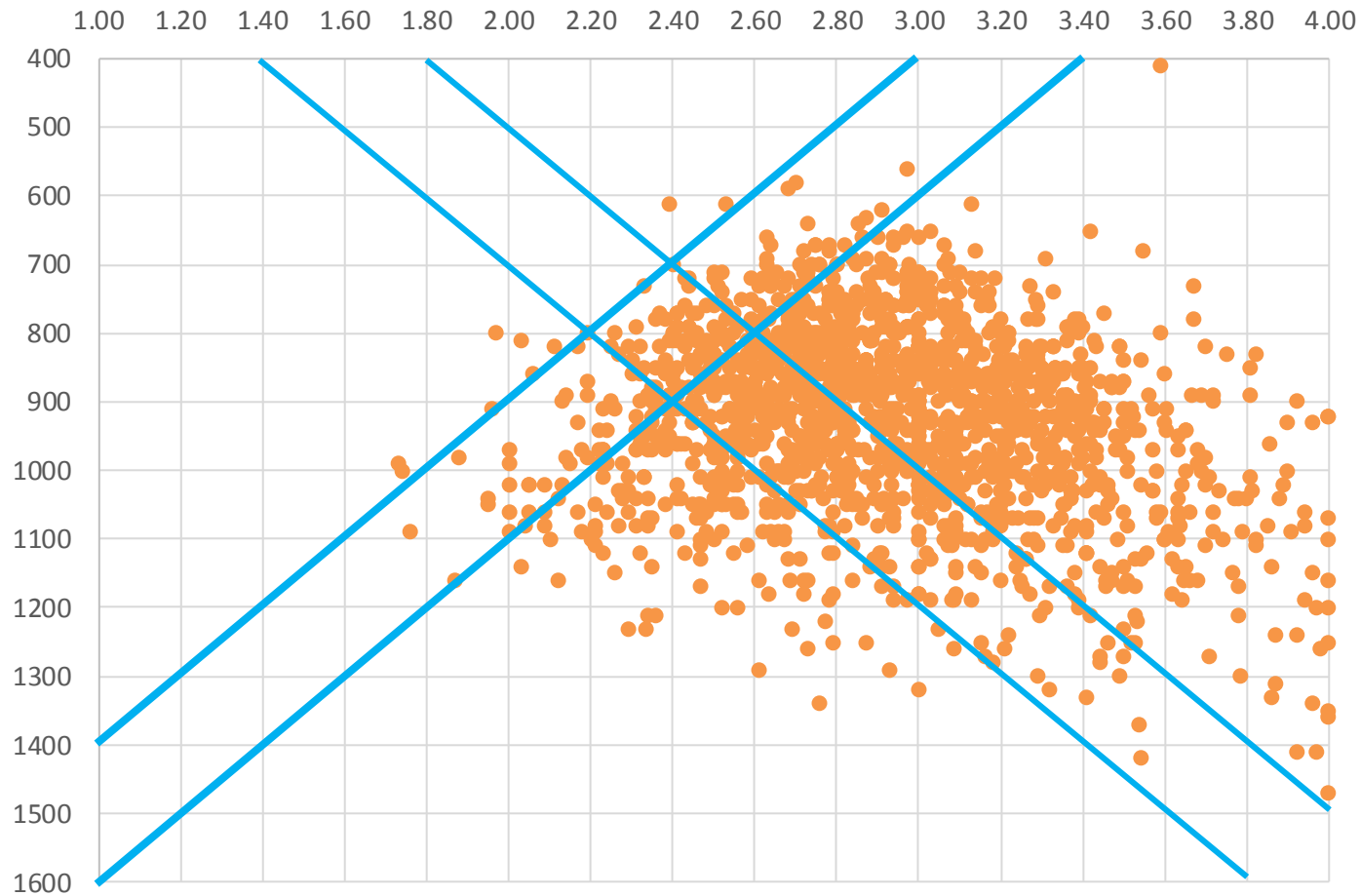


U3+U12

Matriculants
FA13 to FA15

The distribution of matriculated students follows a similar pattern, but to further subdivide into useful admissions categories, we need a good dependent variable.



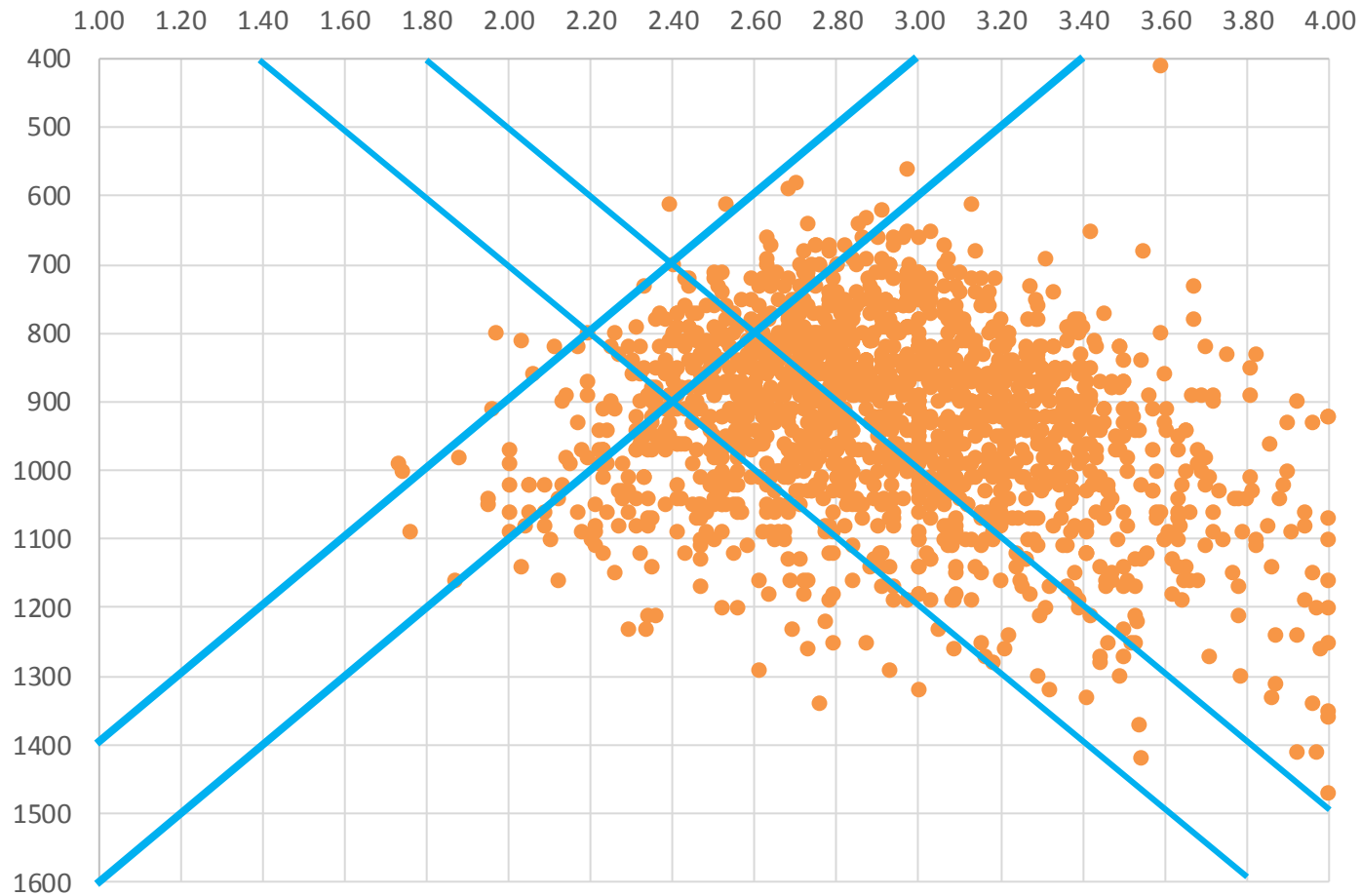


U3+U12

Matriculants
FA13 to FA15

The distribution of matriculated students follows a similar pattern, but to further subdivide into useful admissions categories, we need a good dependent variable.

like
OPS

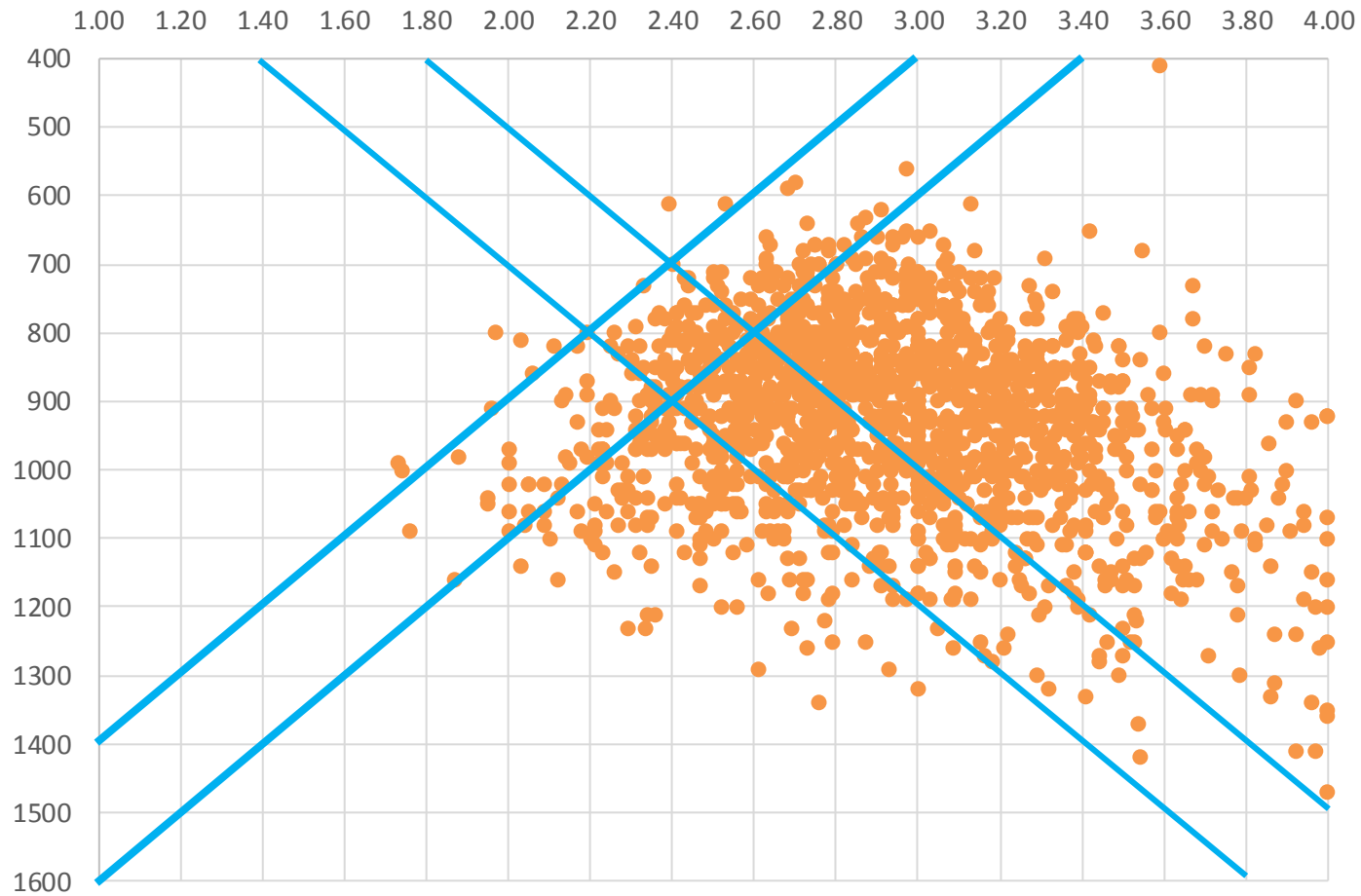


U3+U12

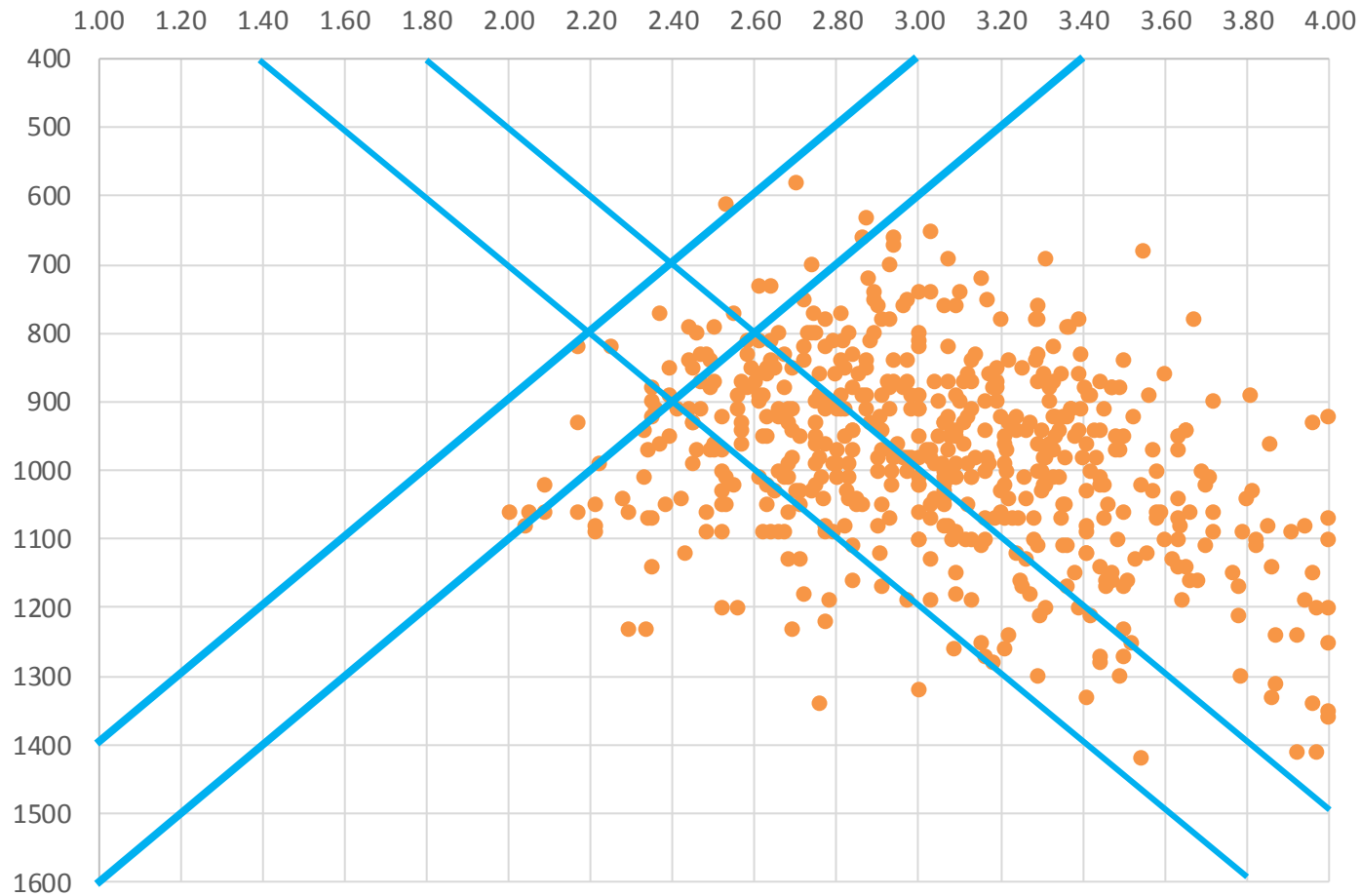
Matriculants
FA13 to FA15

The distribution of matriculated students follows a similar pattern, but to further subdivide into useful admissions categories, we need a good dependent variable.

or even
SLG



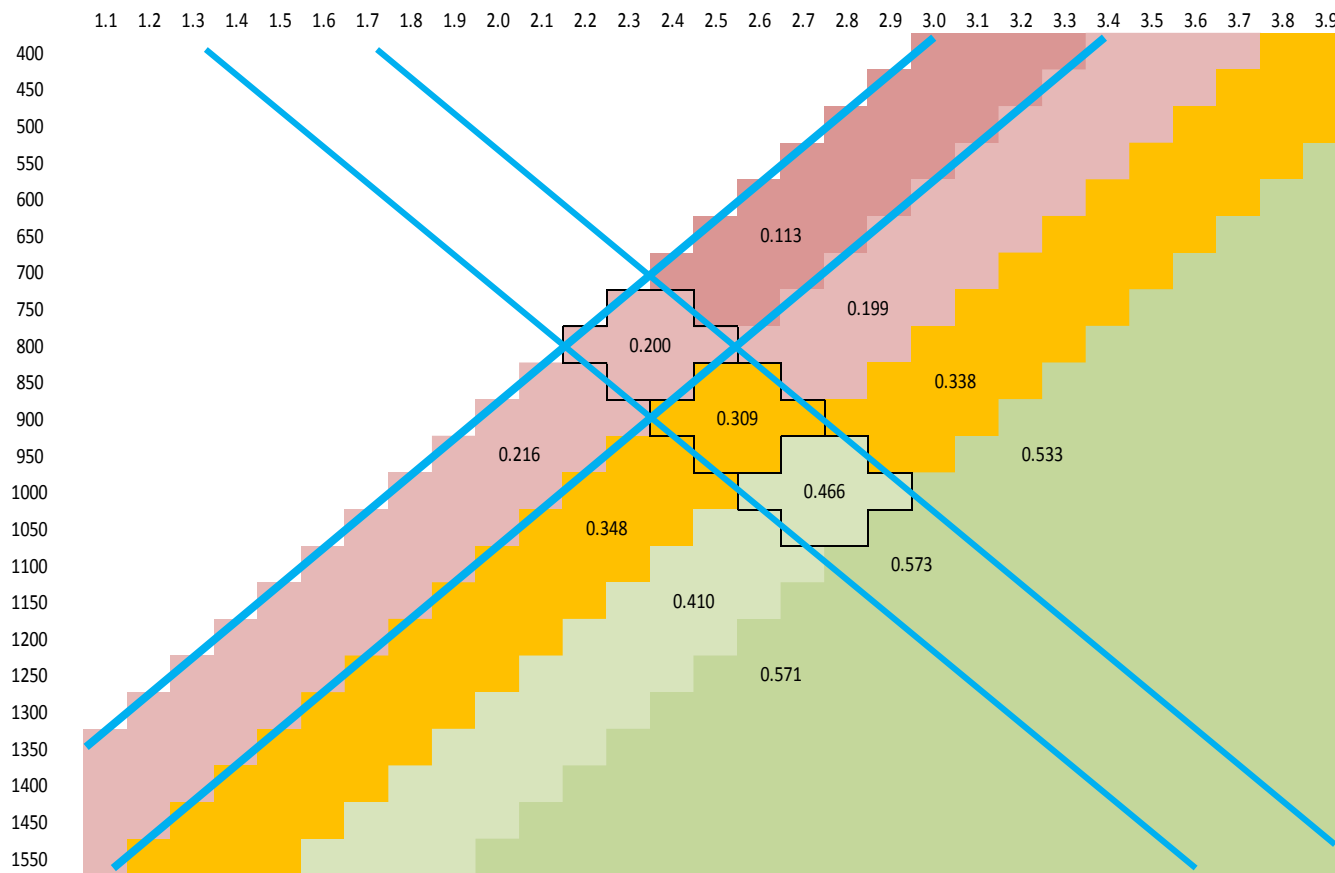
U3+U12
Matriculants
FA13 to FA15



U3+U12

SLG.850
Earners

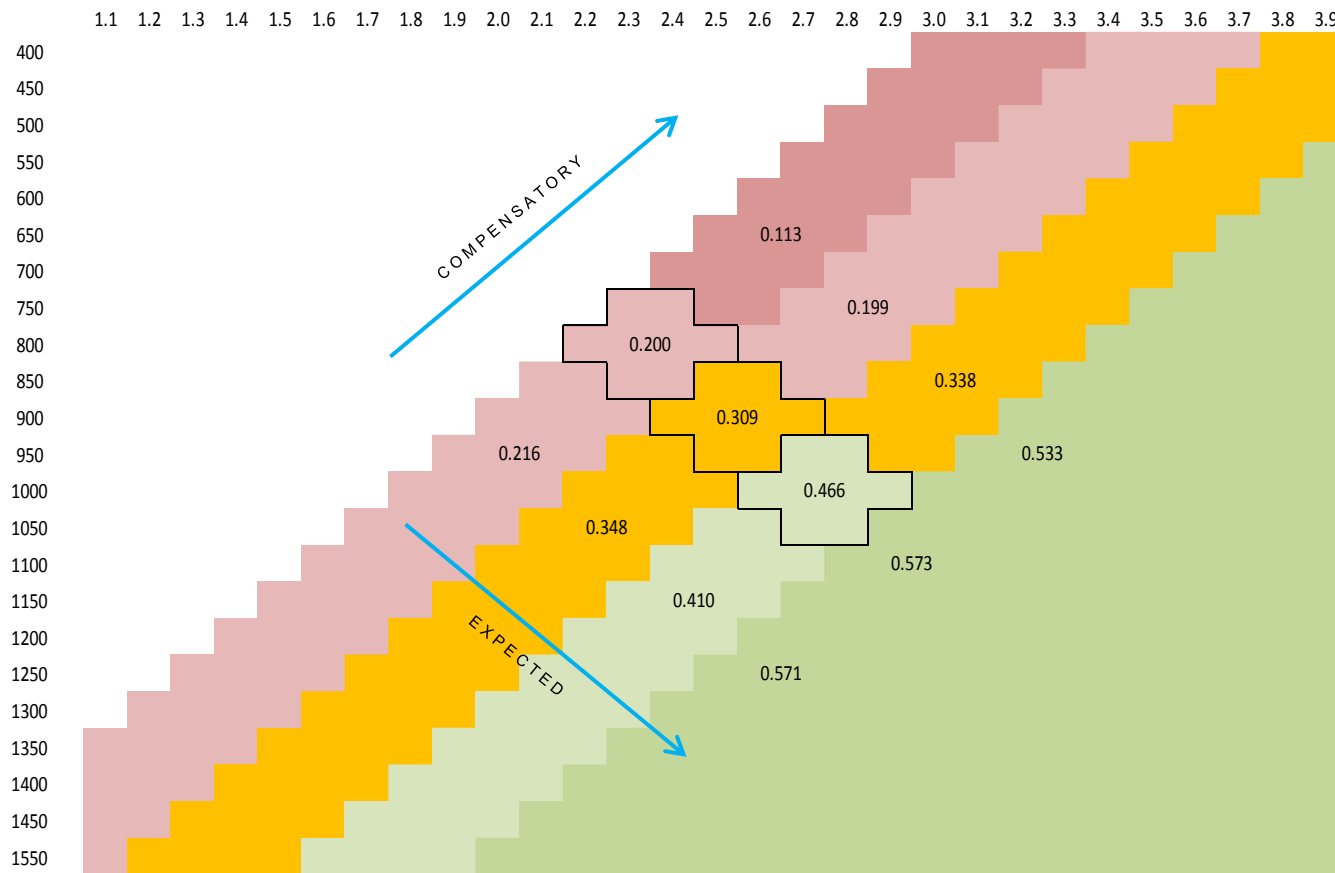
*Distribution of students who earned .850 of expected SCH in their first two years aligns nicely with the “**Flag of Scotland**” framework, but shifts down and to the right. To what extent does the SLG.850 rate vary by specific zone?*



U3+U12

**SLG.850
Earners**

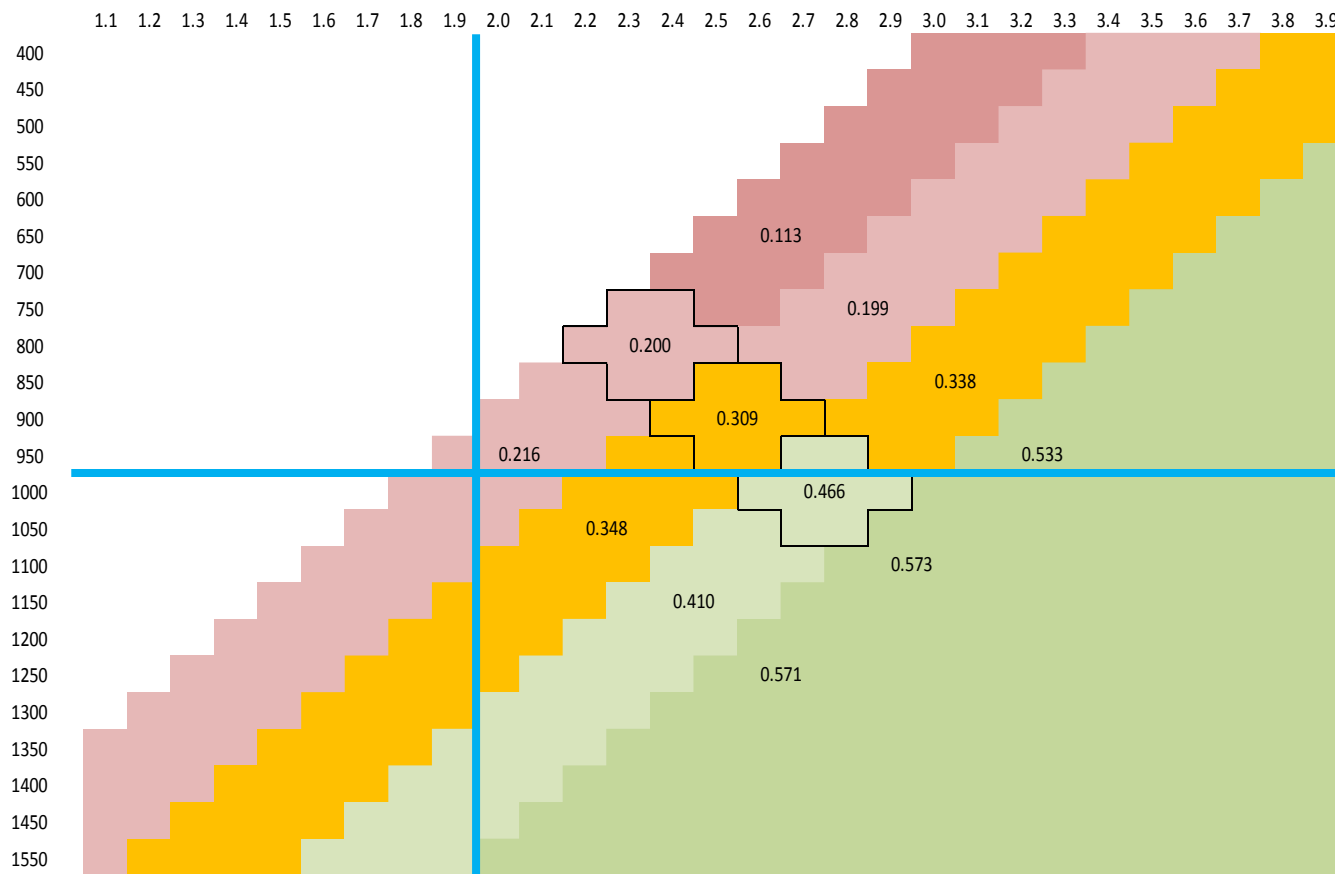
*To find out,
we drew more
diagonal lines to
create additional
GPA by SAT
zones, then
calculated the
SLG.850 rate
for students in
each zone.*



U3+U12

**SLG.850
Earners**

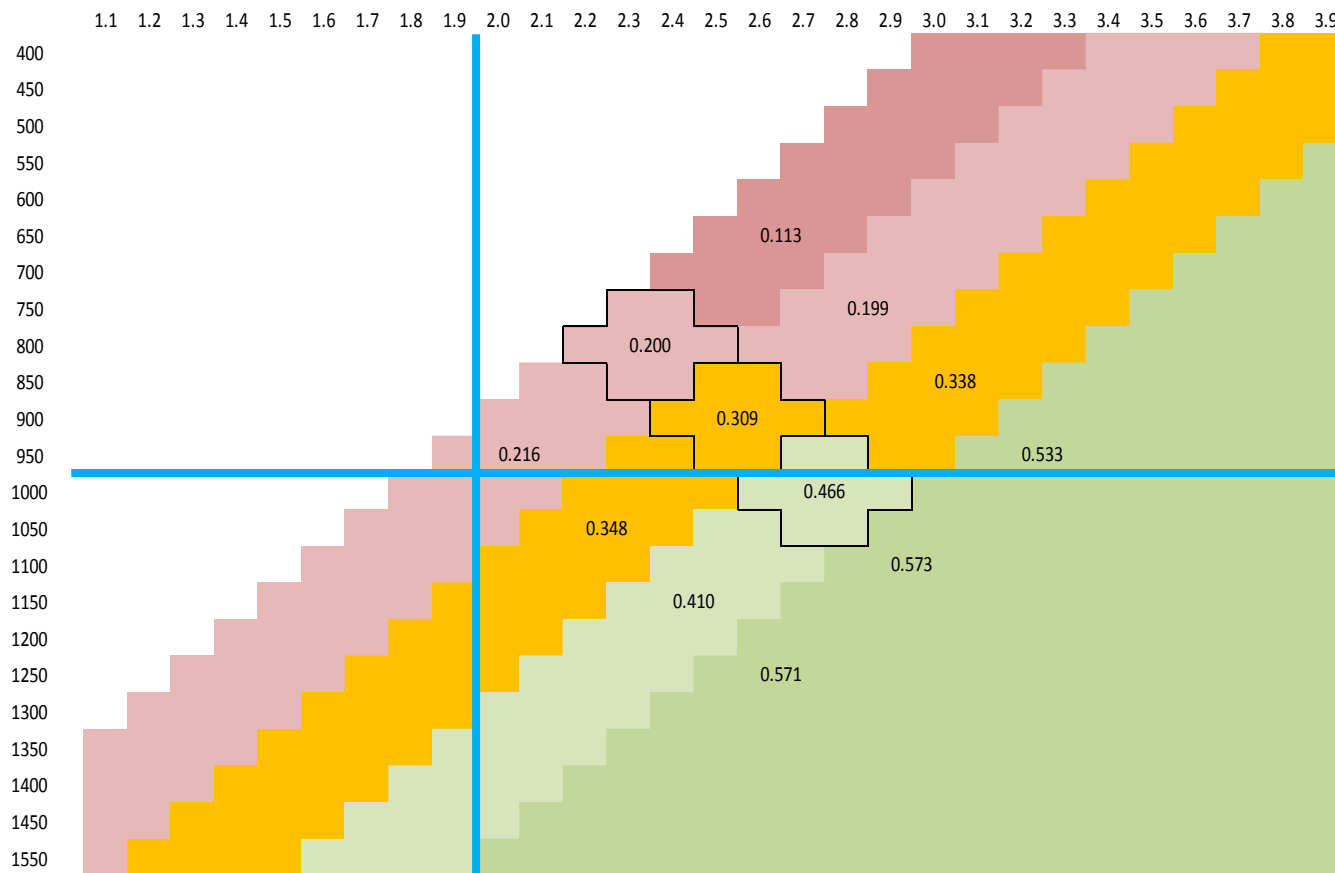
The results supported the existence of “compensatory” and “expected” diagonals, which served to identify SLG.850 performance zones.



U3+U12

SLG.850
Earners

The results also revealed a tremendous amount of misclassification when using the “Flag of Finland” approach.



U3+U12

SLG.850
Earners

The results also revealed a tremendous amount of misclassification when using the “Flag of Finland” approach.

These findings became the basis for a revised admissions and scholarship grid that incorporates diagonals.

STRATEGIC ENROLLMENT MANAGEMENT CONFERENCE



Hidden in Plain Sight:

A case study into designing sophisticated statistical model grids that leverage student-credit hour production with revenue opportunities to uncover often overlooked students.

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