

## College Choice in the Middle of a Pandemic: A Study of Summer Melt

Hanyan Wang, <u>hwang@ponet.ucla.edu</u>
Ying Zhou, <u>zhouy14@ecu.edu</u>
Beverly King, <u>kingb14@ecu.edu</u>
Institutional Planning, Assessment and Research
East Carolina University

## **Presentation Overview**

- Fall 2020 & Spring 2021 national enrollment trends
- Definition of, and reasons for, summer melt
- Methodology
- Deliverables
  - Interactive dashboard for descriptive analysis
  - Enrollment likelihood model
- Recommendations to address summer melt
- Q & A

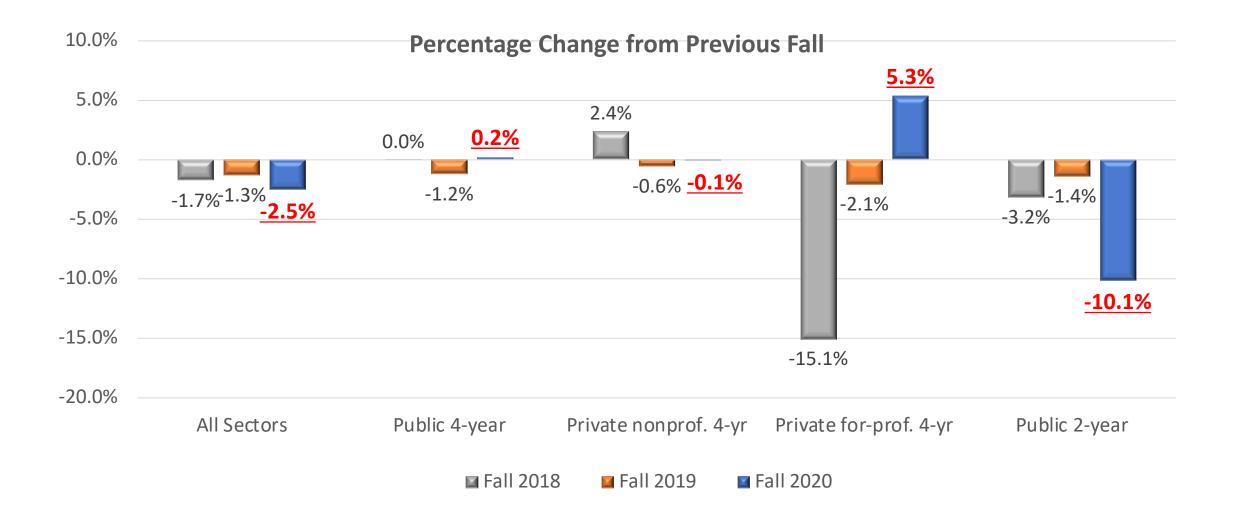


# Fall 2020 & Spring 2021 Enrollment: Findings from the National Student Clearinghouse (NSC)

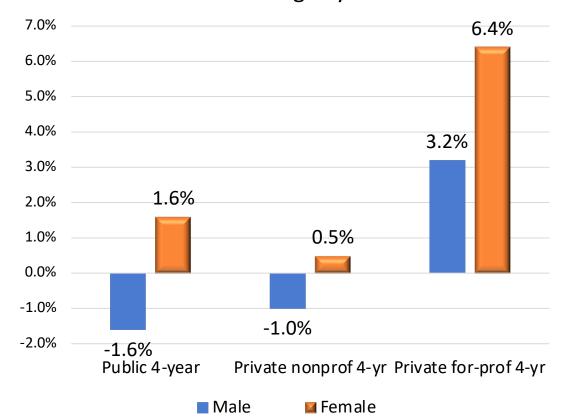
- Current Term Enrollment Estimates: Fall 2020 (December 17, 2020). https://nscresearchcenter.org/wp-content/uploads/CTEE\_Report\_Fall\_2020.pdf
- Covid-19: Stay Informed with the Latest Enrollment Information (March 11, 2021). <u>https://nscresearchcenter.org/high-school-benchmarks/</u>



## Fall 2020 Overall Enrollment Down by 2.5% from Fall 2019



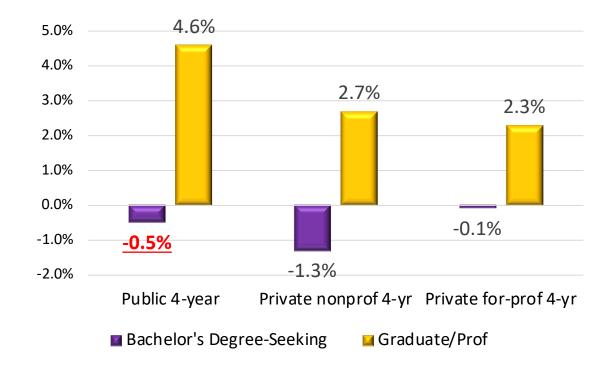
## Fall 2020: 4-Year Institution Enrollment Change (%) from Fall 2019



One Year % Change by Gender\*\*

\*Note: Includes all enrolled students regardless of degree level.

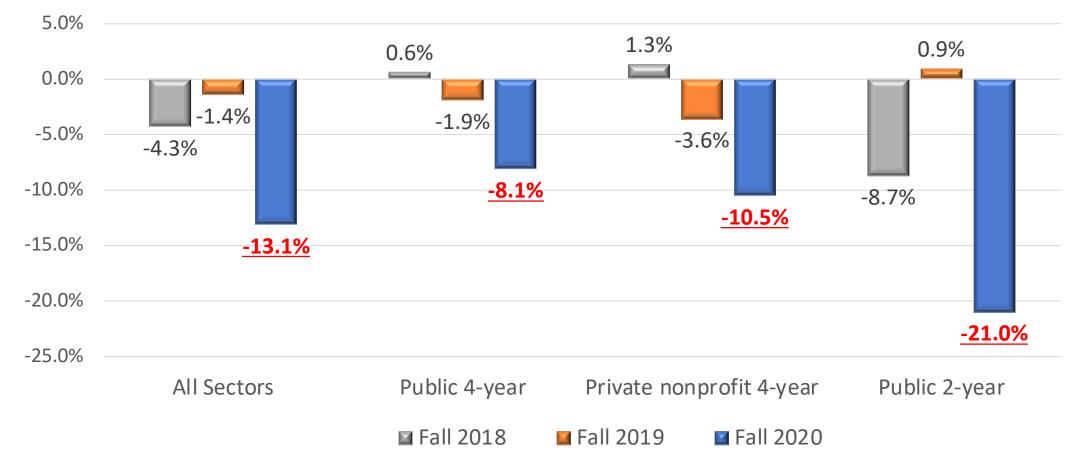
#### One-Year % Change by Degree Level



\*Note: Associate degree-seeking and non-degree seeking undergraduate students are excluded above.

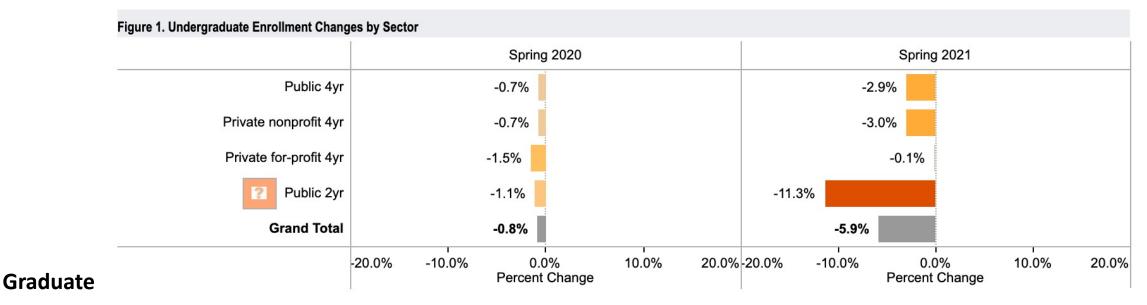
## Change in First-time Student Enrollment

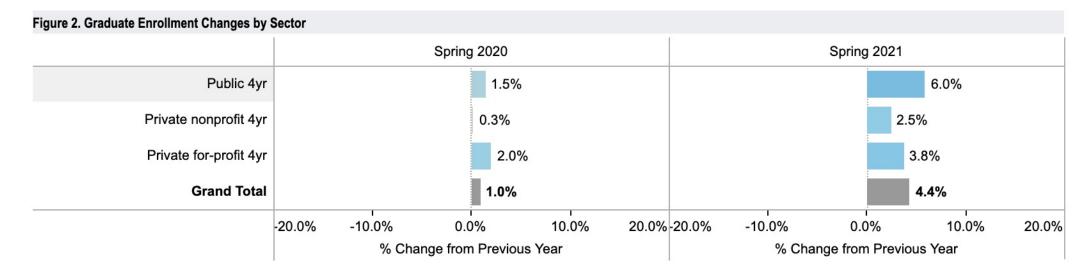
#### Percentage Change from Previous Fall



## Spring Enrollment Changes by Sector (As of March 25, 2021)

#### Undergraduate







## SUMMER MELT

Students who have been accepted and indicated commitment to an institution (e.g., by paying an enrollment deposit) but are not enrolled on census day.



## **Reasons for Summer Melt**

## ✓ Financial burdens

- Calculating the costs of college and budgeting
- Understanding financial aid offers
- Interpreting award letters and tuition bills
- Complexity of federal financial aid applications and process of applying



## **Reasons for Summer Melt**

## College transition challenges and lack of support

- Difficulty navigating a new and complicated process
- Difficulty completing paperwork
- Signing up for and attending orientation
- Problems with immunizations
- Placement tests
- Registering for classes
- Transportation
- Access to the internet during the matriculation process
- Lack of and/or limited access to counseling/guidance
- Not knowing whom to reach out to on campus



## **Reasons for Summer Melt**

- Change in National Association for College Admission Counseling's Code of Ethics to permit "poaching."
- ✓ Covid-19 (maybe the primary reason for Fall 2020 melt, according to anecdotal evidence from students)
  - Stay-in-place orders and limit in size of gathering
  - Unemployment, underemployment or other financial difficulties
  - Virtual yield events (in lieu of campus visits)
  - Uncertainties around Fall 2020 re-opening



## Methodology for Study of Summer Melt

#### **Student Population**

 Accepted first-time freshmen, Fall 2019 and Fall 2020

#### Data Sources

- ECU Admissions Data
- National Student Clearinghouse

   Fall 2020 data as of Dec 1
   Fall 2019 data as of Nov 1
- IPAR Dashboards

#### Comparisons

- High School GPA
- Orientation Attendance
- Pell Status and Family Income
- Geographic Location
- High Schools
- Destinations
- Majors, for those who enrolled elsewhere

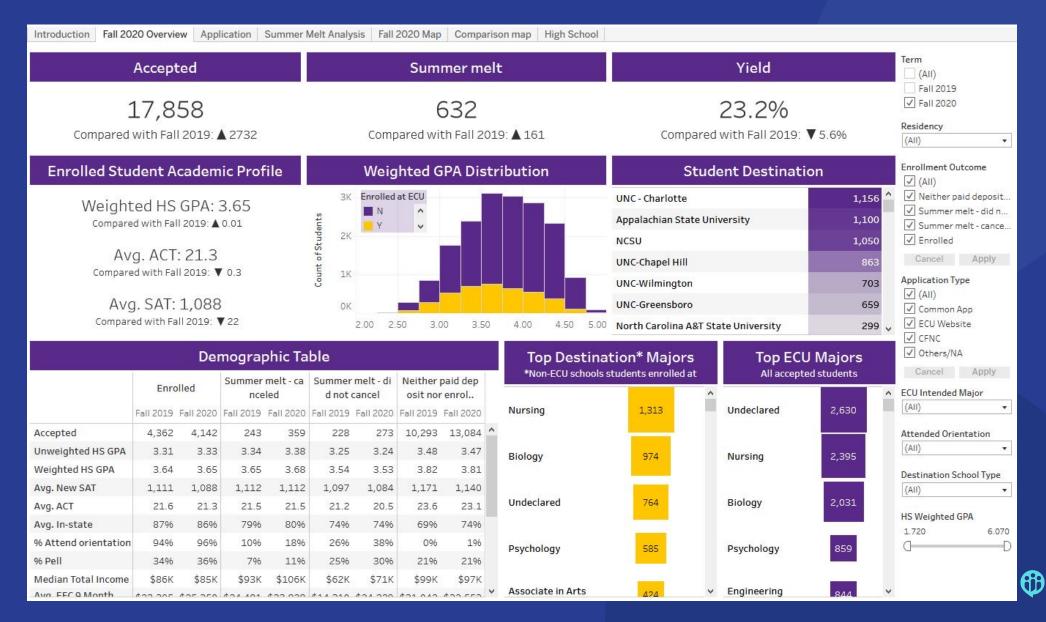
#### Deliverables

- Interactive Dashboard
- Enrollment Likelihood Model

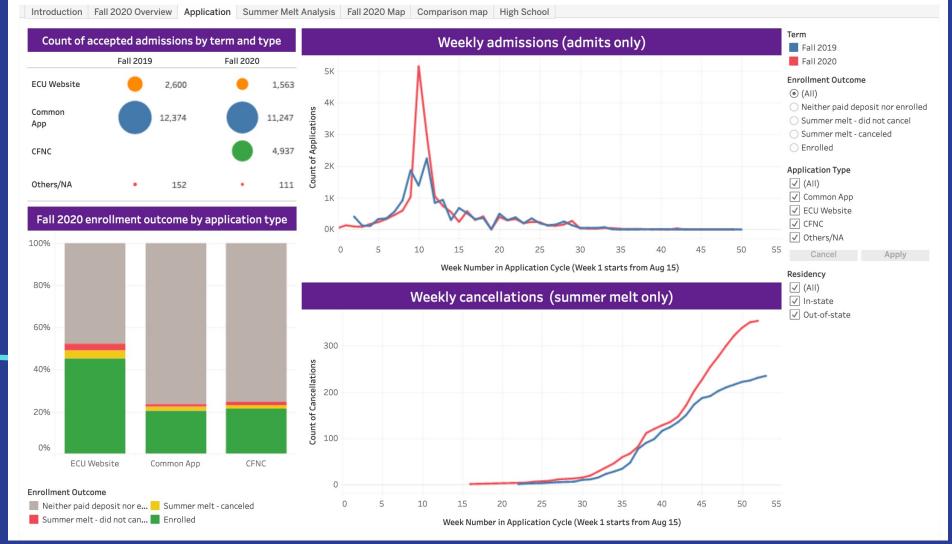


Enrollment Outcome	Residency	Term						1					
Enrolled	In-state	Fall 2019					3,805						
		Fall 2020					3,575			reshman			
	Out-of-state	Fall 2019	55	57						reshman	Class: 4	1,142	
		Fal 2020	50	57				Cn	ange: -5	.1%			
Summer melt - canceled	In-state	Fal 2019	191		-								
		Fal 2020	288	+	· <b>51%</b>			Su	mmor N	/lelt 2019	· //71		
	Out-of-state	Fal 2019	52							/leit 2019			
		Fal 2020	71						ange: +				
Summer melt - did not cancel	In-state	Fal 2019	169										
		Fal 2020	201										
	Out-of-state	Fall 2019	59										
		Fall 2020	72										
Neither paid deposit nor enrolled	In-state	Fall 2019								7,106	+36	%	
		Fall 2020											9,629
	Out-of-state	Fall 2019				3,	,187						
		Fall 2020					3,455						
			ОК	1K	2К	ЗК	4К	5K	6K	7K	вк	9К	10K

#### Interactive Dashboard for ECU's Undergraduate Admissions

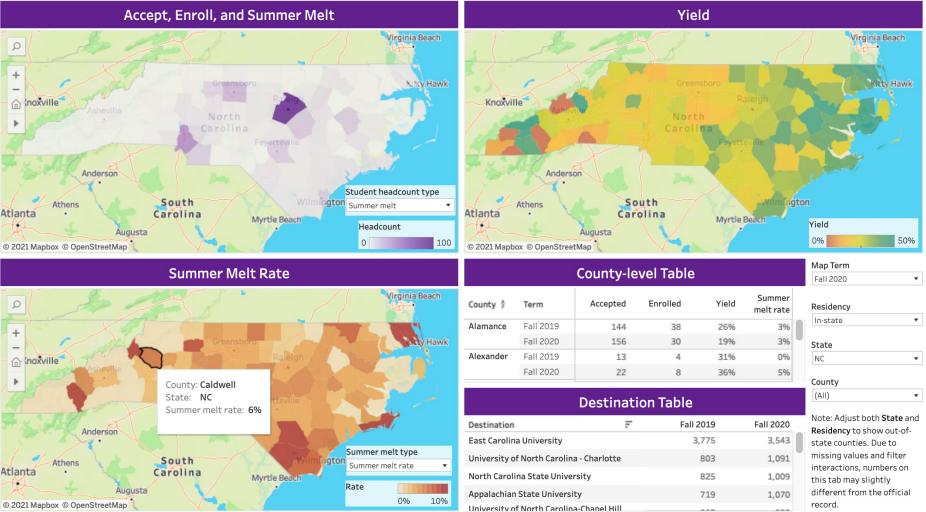


Application Cycle

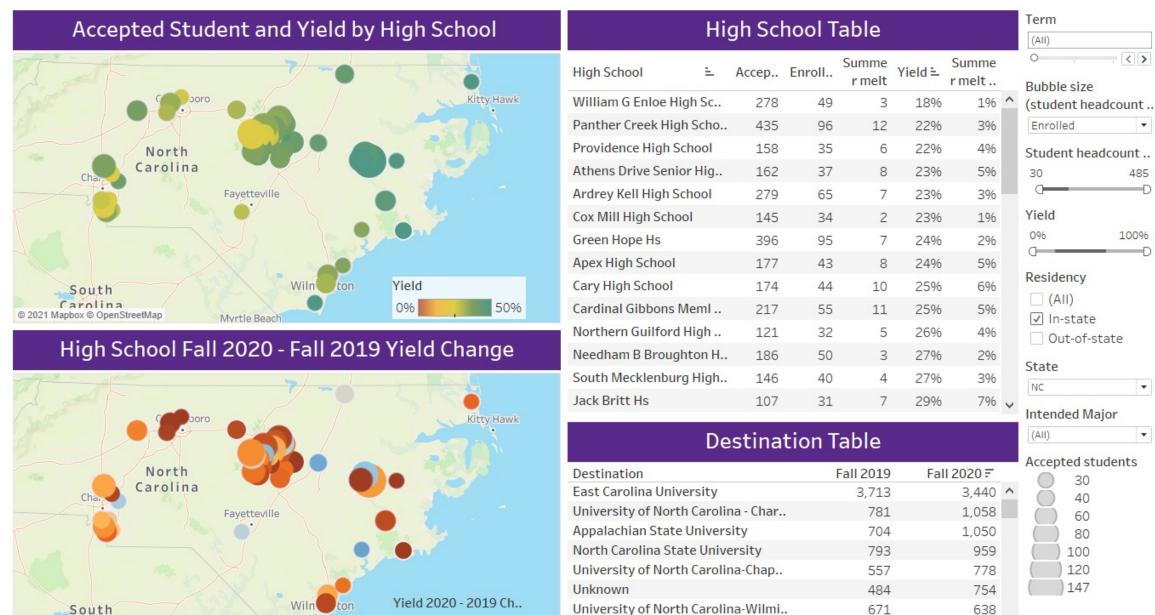


#### Introduction Fall 2020 Overview Application Summer Melt Analysis Fall 2020 Map Comparison map High School

# Maps with<br/>county Level<br/>Data



## **High School**



2004

2004

University of North Carolina-Green..

507

609 🗸

Carolina

© 2021 Mapbox © OpenStreetMap

Myrtle Beach

## **ECU Summer Melt Findings**



## **Observations Regarding 2020 Summer Melt**

Accepted students who paid a tuition deposit

- Fall 2019 (n=4,835): 9.7% did not enroll on Census Day
- Fall 2020 (n=4,774): 13.2% did not enroll on Census Day

#### **Summer Melters**

- The number of "Summer Melters" increased by 161 (34%) in 2020
- More than half of the "Summer Melters" informed ECU before the fall semester began (57% in 2020)

#### Orientation

 26% of 2020 Summer Melters attended orientation, compared to 19% of 2019 Summer Melters.



## 2020 Summer Melters: Canceled vs. Not Canceled

Summer melters who informed ECU:

- 1. 35% minorities comparable to enrolled students
- 2. Had comparable High School GPAs to enrolled students
- 3. Had significantly higher family income than enrolled students
- 4. Were less likely to be Pell eligible than enrolled students (11% vs 36%)
- 5. 18% attended orientation
- Enrolled at another UNC institution (35%) or a NCCCS school (30%)

Summer melters who did not inform ECU:

- 1. 42% minorities higher than enrolled students
- 2. Had lower High School GPA than enrolled students
- 3. Had significantly lower family income than enrolled students
- 4. Were less likely to be Pell eligible than enrolled students (30%)
- 5. 38% attended orientation
- Did not enroll in a college (33%) or enrolled at a NCCCS school (30%)



## **Top Destinations - Fall 2020**

#### Summer melt - canceled

Unknown

NCSU

**UNC** - Charlotte

**UNC-Wilmington** 

**UNC-Chapel Hill** 

**UNC-Greensboro** 

Wake Technical Community College

North Carolina A&T State University

Appalachian State University

#### Summer melt – did not cancel

#### Unknown 45 Wake Technical Community College 28 **UNC - Charlotte** 27 26 **UNC-Greensboro UNC-Wilmington** 25 17 NCSU 7 Appalachian State University 7 North Carolina A&T State University 5 UNC-Chapel Hill

#### Other Non-enrolled

89	UNC - Charlotte	1,121
16	Appalachian State University	1,079
7	NCSU	1,019
7	Unknown	974
7	UNC-Chapel Hill	854
6	UNC-Wilmington	669
4	UNC-Greensboro	645
2	North Carolina A&T State University	292
2	Wake Technical Community College	257

## **Enrollment Likelihood Model**



Covering 32,751 Fall 2019 and 2020 firsttime, first-year admitted students

Predictors: demographics, academics, financial, geographics, and application variables + transformation

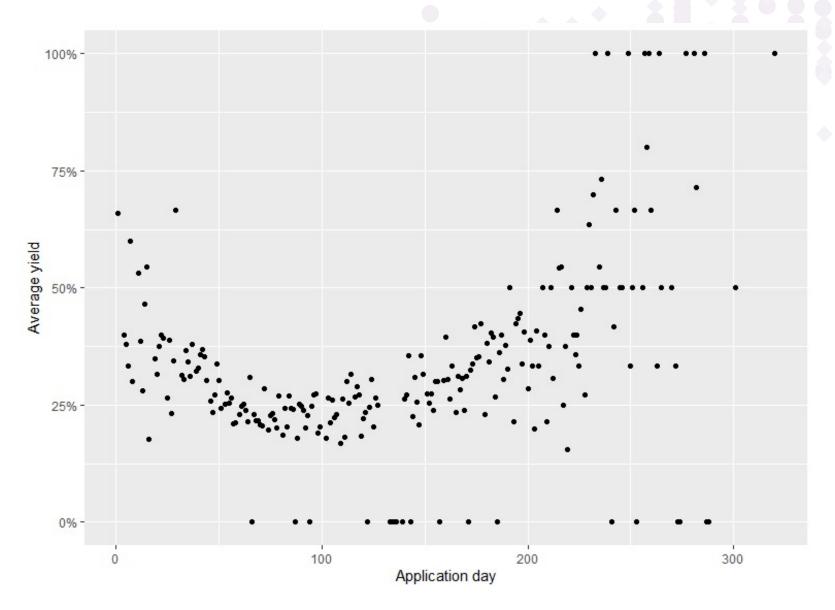
Response: Enroll Y/N

90/10 Train/test split

11 Final predictors 82.3% Test set accuracy

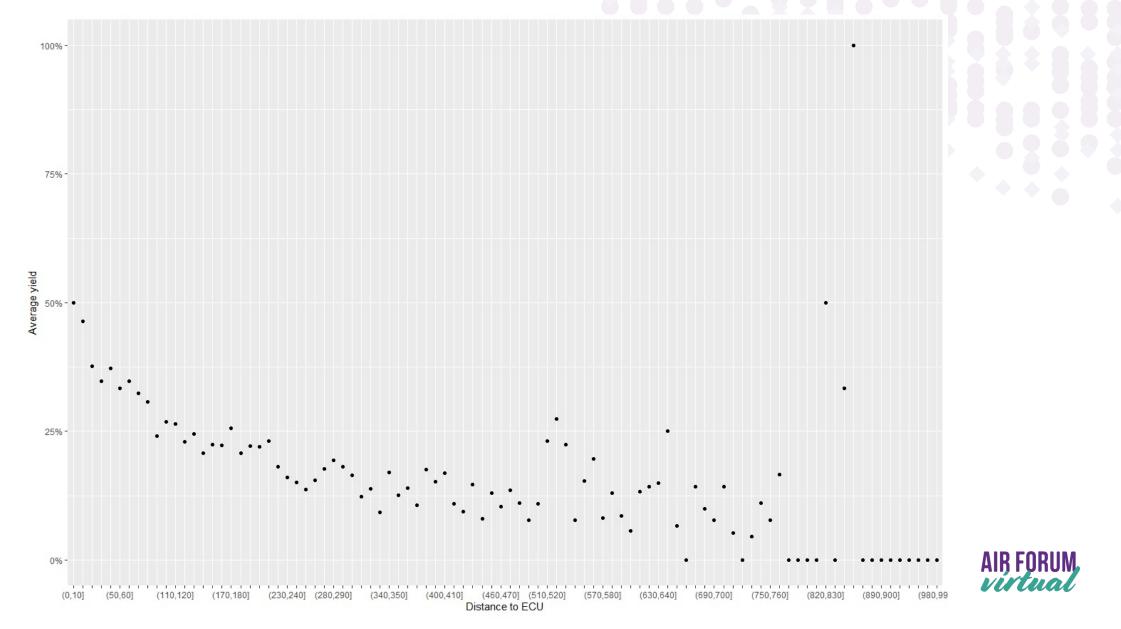


## We used transformations to capture non-linear relationships



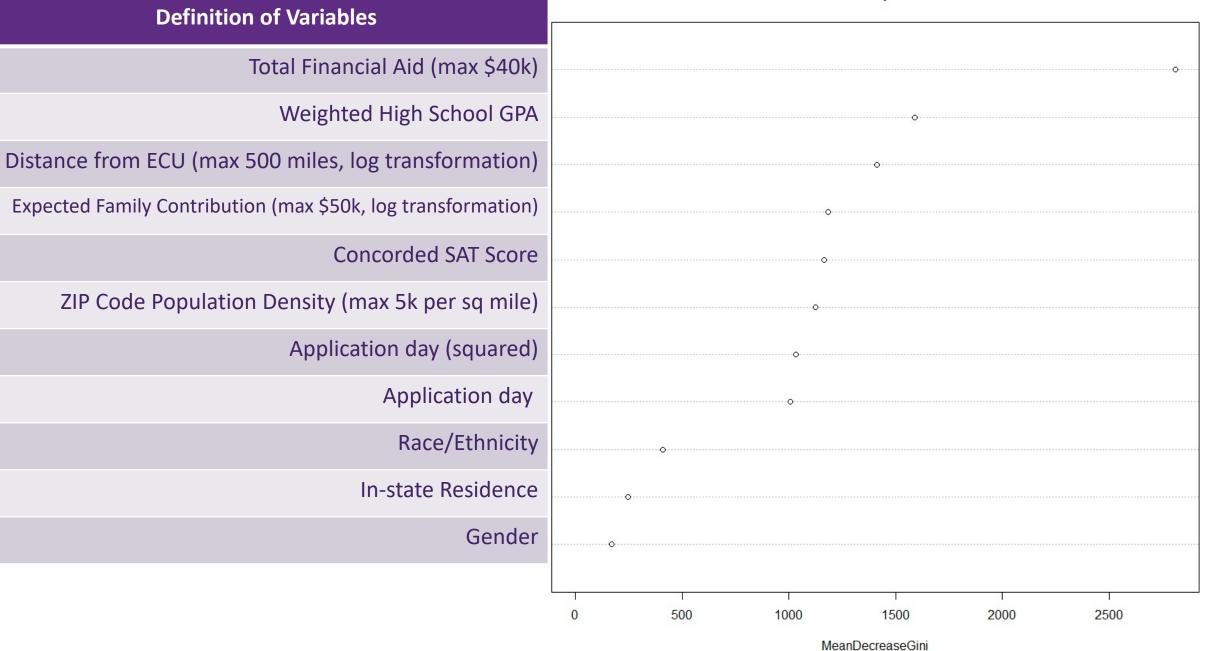


## We used transformations to capture non-linear relationships





#### Variable Importance



## **Total Financial Aid**

After controlling for all other variables in the model

# Each additional \$1000 in ANY awards (no matter accepted or declined, scholarship, grant, or loan)



Likely to be a Pirate



## ECU is less attractive to academically high achievers

After controlling for all other variables in the model

# Each additional point in weighted high school GPA



# Every additional 50 points in concorded SAT scores



## Likely to be a Pirate



Stopping Summer Melt Connect
Communicate
Simplify
Support

## **Strategies – Connect & Communicate**

(all of which are utilized by ECU UG Admissions & University Marketing)

- Engage with students early and continue to reach out to them proactively in the summer months.
- Utilize the power of technology, e.g., create digital messaging campaigns with reminders of important tasks and student resources; use social media to answer questions; etc.
- Be people-first in your digital communication strategies by personalizing both messages and processes.
- Use "nudges" (personalized and timely messages to urge students to complete tasks and navigate processes).
- Continue to communicate the value of your institution and of a college degree.
- Connect (and maintain connection) with parents.



## Strategies – Simplify & Support

- Simplify enrollment instructions & process

   Advising, registration, financial aid documents, payments
- Train departments to respond in real-time
  - Emphasize accessibility
    - Chatbots, texts, scheduling software
- Incorporate students' parents into prevention programs
  - Still recruiting the parents as well
- Increase inter-campus collaboration to provide support and reassurance.
  - ECU Inaugural Enrollment Summit, April 2021





# Questions?

#### **CONTACT INFORMATION**

Institutional Planning, Assessment and Research: <u>https://ipar.ecu.edu/</u> Hanyan Wang, <u>hwang@ponet.ucla.edu</u> Ying Zhou, <u>zhouy14@ecu.edu</u>

Beverly King, <u>kingb14@ecu.edu</u>

## Resources

- <u>https://blog.campus.app/how-to-reduce-summer-melt</u>
- <u>https://www.raise.me/blog/universities/5-proven-strategies-to-prevent-summer-melt-improve-yield-and-hit-enrollment-goals-this-year/</u>
- <u>https://www.bostondigital.com/insights/4-ways-decrease-summer-melt-your-university</u>
- <u>https://www.brazen.com/resources/4-simple-ways-to-stop-summer-melt</u>
- <u>https://www.insidehighered.com/blogs/call-action-marketing-and-communications-higher-education/warding-summer-melt</u>
- <u>https://www.nacacnet.org/globalassets/documents/professional-development/guiding-the-way-to-inclusion/2018-presentations/b4\_freezing-summer-melt.pdf</u>
- <u>https://admissions.usf.edu/blog/top-tips-for-college-counselors-on-beating-summer-melt</u>
- <u>https://uplandsoftware.com/mobile-messaging/resources/blog/what-you-can-do-to-kick-off-your-summer-melt-prevention-program-right-now/</u>
- <u>https://www.cappex.com/articles/client-newsletter/freeze-the-summer-melt</u>

