## **DIVERSIFYING WITH DATA**

#### SIMIOCLOUD

#### DEMYSTIFYING "DATA" & HOW IT IS USED

- What is really meant by the term "data"?
- What are the most important data points for fundraising?
- Raw data leads to donor predictions



#### **Donor Segmentation**



Jonor segments are created from intuitive data elements like "recency of last gift", "frequency" and "total \$s"

#### **Ranked Donor Segments**





#### **Selected Segments**





Ranked Donor Segments

#### **Predictive Model Definition**



#### **Predictive Models Ranking Individuals**





**Predictively Ranked Individuals** 



**Predictively Ranked Individuals** 

#### IS ALL OF THE FUNDRAISING OF TODAY "FISHING FROM THE SAME POND"?

#### The "POND"





#### The Pond versus the National Average





Gender Group • National • Pond 48.9% 53.3% 49.0% 46.6% E M U





Attended Completed College Completed Completed High Vocational/Technical Graduate School School







#### The Pond versus the National Average





### **Discrimination Bias in Modeling**



 $\succ$  Is there a circular effect in current acquisition audience targeting?

> Are data companies limited to the "pond" with their modeling solutions?

> Or are organizations contributing to the problem by limiting donor data?

### Certainly.....Potentially.....YES!

### **Discrimination Bias in Modeling**

- ➢ <u>Bias</u>: "outcomes which are systematically less favorable to individuals within a particular group and where there is no relevant difference between groups that justifies such harms".\*
- Algorithms are not intentionally discriminatory, but they ARE the culmination of a series of human judgements which may result in unintended discriminatory effects.
- Examples: predictions for recidivism for parole decisions, credit scoring, and job candidate screening
- In the context of fundraising, bias in algorithms has generally resulted in the selfreinforcing "pool" of donor prospects
- But is this necessarily a "bad" outcome?

\*Lee, Resnick, Barton: "Algorithmic bias detection and mitigation: Best practices and policies to reduce consumer harms"

#### The "Pool" Was Formed





#### ETHICS & LEGALITIES OF DATA IN MODELING

#### **Consumer Privacy**



Increasingly more U.S. states have stepped into this void and are passing their own consumer data privacy laws:

- California Consumer Privacy Protection Act (CCPA): Effective January 1, 2018
- > California Consumer Privacy Rights Act (CPRA): Takes effect in 2023
- Colorado Privacy Act: Takes effect in 2023
- Virginia Consumer Data Protection Act: Takes effect in 2023

The EU's General Data Protection Regulation (known as GDPR), and now the CCPA and CPRA, have provided the blueprint for other states to pass legislation regarding consumer data privacy.

#### **State Laws**



These new state laws create a variety of challenges for data providers and marketers alike, as the legislative landscape is increasingly more a patchwork of regulations:

- Compliance challenges
- Costs (in both people and technology)
- Negative effects on consumers



#### **The Unintended Impact on Consumers**

New laws should be of significant concern for fundraisers as they attempt to reach historically underrepresented and underserved communities.

For instance, consider the new Colorado and Virginia laws

- > The laws categorize a consumer's race and ethnicity as sensitive data
- > There will need to be additional opt-in requirements met for the processing of that data
- Therefore, it will be increasingly a challenge for fundraisers to meet its commitments to DEI initiatives if you can't identify and target audiences with data

Marketers and Fundraisers, along with their Data Solutions providers will need to adapt to meet these challenges with creative data modeling practices.

#### **Compliance with Data Legislation & Data Ethics**



- Comply with the law(s) applicable to the consumer data you are receiving and using in your business / organization
- > Treat every record as if there is a live person behind it
- Strive to not only comply with applicable data laws, but take steps to ensure that a consumer will not be harmed in the use of their personal information

#### **Omitted Variable Bias**

> Addressing possible discriminatory bias in models is not easy

- Simply removing protected data can still result in *bias* Other attributes are potentially correlated with protected data
- > Statistical methods can help with the problem:
  - □ Fit the model and retain any predictive protected characteristics to prevent other variables from acting as proxies
  - When scoring the model, set the values of the protected characteristics to the population means for all individuals to maintain model blindness to those characteristics

#### TACTICS FOR FUNDRAISERS IN SEARCH OF NEW "POOLS"

#### **Common Questions**



> How can we obtain younger donors?

How can we expand into new markets / regions?

How can we attract more Hispanic donors?

> How can we find donors who are only loyal to our organization?

# Direct Marketing Theory: The Relative Importance of Campaign Components

There are three main components to a marketing appeal:

- ➢ Audience
- Product
- Promotion or Offer



#### In Fundraising Terms

There are three main components to a fundraising appeal:

- Audience Segments
- The Mission as conveyed through creative / copy
- ➤ The Ask \$



#### **The Younger Donor Problem**



> Organizations want to attract younger donors as their current base ages and passes

- > Is the Ask, Messaging and Copy appropriate and appealing to the younger generation?
- ➤ Is the Mission relevant to the younger generation?
- > "Age-band" models can be created, tested, and refined based on initial outcomes

Age Band	Quantity	% of File	Response Rate	Index
18-34	1,403	0.2%	0.42%	17
35-44	14,932	1.8%	0.64%	26
45-54	57,383	6.7%	1.76%	71
55-64	189,353	22.2%	2.13%	86
65-74	432,931	50.8%	2.89%	117
75+	156,324	18.3%	2.22%	90
Total	852,326		2.48%	

#### **Expanding Into New Markets**



- Use historical donor information to understand current "market"
- > Design analytical datasets focused on regions outside of the current market
- > Develop a model free of geographic bias, test carefully, and refine the model based on test outcomes



#### **Hispanic Marketing**



Table 3.

#### Population by Race and Ethnicity: Projections 2030 to 2060

The non-Hispanic White population is projected to shrink by nearly 19 million people by 2060. (In thousands)

	Population						Change from	
Characteristics	2016		2030		2060		2016 to 2060	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total population	323,128	100.0	355,101	100.0	404,483	100.0	81,355	25.2
One race								
White	248,503	76.9	263,453	74.2	275,014	68.0	26,511	10.7
Non-Hispanic White	197,970	61.3	197,992	55.8	179,162	44.3	-18,808	-9.5
Black or African American	43,001	13.3	49,009	13.8	60,690	15.0	17,689	41.1
American Indian and Alaska Native	4,055	1.3	4,663	1.3	5,583	1.4	1,528	37.7
Asian	18,319	5.7	24,394	6.9	36,815	9.1	18,496	101.0
Native Hawaiian and Other Pacific			1965-6045-6075					
Islander	771	0.2	913	0.3	1,125	0.3	354	45.9
Two or More Races	8,480	2.6	12,669	3.6	25,255	6.2	16,775	197.8
Hispanic	57,470	17.8	74,807	21.1	111,216	27.5	53,746	93.5

\*https://www.census.gov/content/dam/Census/library/publications/2020/demo/p25-1144.pdf

#### **Hispanic Marketing: Acculturation Level**



Acculturation Level: How immersed within the surrounding culture?

- ➢ Generally, it takes 10-15 years
- > Longer for Hispanics due to pride in values and heritage that is past on to the next generation
- Modern Hispanics tend not to assimilate as quickly for 2 reasons:
  Technology allows for easy connection with their homeland
  "Diversity" is now celebrated whereas in the past it was not socially acceptable

#### **Hispanic Marketing: Targeting Issues**



Segmentation Issues:

U.S. population is graying, but Hispanics are younger
 Median age is 28 versus overall age of 37

> Consumption patterns for Hispanics are different

Technology and Media use are distinctly different
 Due to language, culture and ownership dynamics
 68 more time watching video on the internet
 20 more time watching video on their mobile device

> Hispanic data via traditional compilation methods is poor

<sup>\*</sup>https://www.gallowayresearch.com/expertise/hispanic-market-research/



### The Pond is Always Changing



#### **General Axiom**



# On average, prospect audiences <u>without</u> demonstrated past donation history will significantly underperform

### **Final Thoughts**



- > There is no "Easy Button" for Acquisition & Donor Fundraising
- > Advanced data resources and data science methodologies are a necessity
- > There is nothing wrong with intelligent fishing from the same "pond"
- > Fundraisers will need to invest to cultivate, attract and catch the new "fish"



# **QUESTIONS?**



#### ADVANCING MOORE AS A MARKETING TECHNOLOGY LEADER

## THANK YOU

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