METHODOLOGY PRIMER: BIAS

A 2020 ANNUAL SURVEY OF MUSEUM-GOERS DATA STORY



Bias. It is something that all researchers have to grapple with. And it is unavoidable.

When we field audience research, understanding and acknowledging bias is incredibly important. So let's explore two major ways bias affects this work.

First, sample bias.

Sample bias happens when a sample doesn't fully represent the public or an audience.

To be blunt, all surveys and

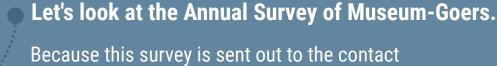
methodologies

unavoidable. For the Annual Survey of Museum-Goers, our sample

have some degree of sample

bias. Blind spots that are

thus consists of people who visit museums on a regular basis: a small sliver of the population, but one that it is important for us to know well.



lists of museums, it is a classic sample of convenience. That means respondents are easy to reach and easy to convince to take the survey. Participating museums send out an email, post to social media, and bam! We have a sample!

So there is nothing wrong with samples of convenience provided they are clearly identified as such. The onus is on us to make sure no one



broader population sampling. To be clear, except for the US Why? When broader population samples are run, there is a large percentage of the

survey. Surveys simply never reach them.

Census Bureau, no one adequately samples all of the broader population in a representative way. There is a blind spot. A big one: depending on the sample source, a third to half the population are dramatically under-represented.

Sampling becomes more

complicated when it comes to

1 Low income and/or low educational attainment households -\$ 2 The extreme elderly

In particular, broader population

surveys tend to dramatically under-sample three groups:

population that is extremely difficult to

Recent immigrants

sample. They do this by counting the responses of those who are under-represented more heavily than those who they over-sampled. Theoretically, this should work. I'll be honest ... I'm not

comfortable with

these assumptions.

Instead, I'd rather

Typically,

researchers mitigate

this by weighting their

The individuals being weighted more heavily may not necessarily be representative of the population they are being assumed to represent. For example, we probably shouldn't assume that a recent immigrant who responds to a survey is going to answer in a similar way to all

recent immigrants.

But there are two

fundamental •

problems with

this mitigation

attempt:

Thus, when looking at broader population results from any survey, including mine, take into consideration how large that blind spot is, and be cautious about assuming the results are truly representative of the broader population. Second, researcher bias. We are going to

only a few responses are inflated to

acknowledge the sampling

challenges and admit there are segments of the population that we are not reaching effectively in the research, Since these under-represented groups are despite our best efforts. just that, under-represented, that means that represent a significant portion of a sample.

get a bit personal here. I have biases. I am a human being. It would be foolish to assume that my work is bias free. But that doesn't mean my research is unfair or inaccurate. I work hard to mitigate my biases.

• I acknowledge my biases in the first place, and increasingly share a bias statement in my work • I admit that my lived experiences have been as a white

cis-female

How?

 Include multiple perspectives (and note when a "side" feels more strongly) Deliberately include diverse backgrounds,

• Strive to ground my research in evidence

• My values, attitudes, and beliefs skew heavily liberal

• Because the audiences and publics I study include other

genders, life stages, people of color, and conservatives, I:

qualitative work and in the reporting of research results • Rely on a small network of advisors from different

represented ... or to call me on it when my

characteristics, values, and political ideologies in

bias comes into play Projects can have biases, too. For the 2020 Annual Survey of Museum-Goers we wanted to assess inclusive attitudes ...

that bias and strove to develop questions that would

with the assumption (bias) that inclusion is a good thing.

But we also wanted accurate results, so we acknowledged

accurately assess a variety of attitudes towards inclusion.

backgrounds to assess if my findings are fairly

So when you look at Who actually participated in research, it is important the research? to be critical in many What may be skewing the ways, and understanding results? the different types of bias is a key part of that. Are the researchers being upfront about who they are

• 2020 Annual Survey of Museum-Goers • 2020 Broader Population Sampling

• 2017 – 2019 Annual Surveys of Museum-Goers

Ask yourself:



And are the researchers considering their own biases

and striving to mitigate them?

If you can answer these questions in ways that give you confidence, great! And if not,

ask some questions. A good researcher will be happy to honestly discuss the role of bias in their research. Annual Survey of Museum-Goers Data Stories are created by Wilkening Consulting on behalf of the American Alliance of Museums. Sources include:

sampling?

2020 Online Pandemic Panel of Museum-Goers (ongoing)



More Data Stories can be found at wilkeningconsulting.com/data-stories.



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*Data Stories share research about both museum-goers (who visit multiple museums each year) and the broader population (including casual and non-visitors to museums).