

NCF Philanthropic giving to Black Communities in MA: Team C

Team Members: Sharon Zou, Tyler Nguyen, Fiona Mei, Justin Lee, Esther Choi

Mid-Semester Insights Report

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Due Date: 4/8/24

Goals:

- Comprehensive analysis of project
- 2 additional key questions answered
- **Presentation of progress, blockers, and/or extension projects for client

Early Insights Report linked here: [Early Insights Report](#)

Code/Methodology linked here: [MidSemesterInsights.ipynb](#)

Analysis

In our Early Insights Report, we familiarized ourselves with the nonprofits and grants datasets and answered two key questions – ‘how much funding is going towards non-profits led by LatinX/Black leaders in MA?’ and ‘who are the top funders of racial justice programs in MA?’, respectively. For the mid-semester insight report, we answered the remaining two key questions as well as focused on creating more visualizations to help understand general trends surrounding the data.

One notable conclusion we came to is that although funding for racial justice programs increased alongside general funding to all programs, it proportionally had a decline between 2019 - 2020. Additionally, despite \$6B being donated to non-profits led by the Black/LatinX community, this is only 16.78% of total funding going to nonprofits. We also found that Education is the most common issue focus of grants for Black/LatinX led nonprofits. Along with most funded nonprofits being in Boston.

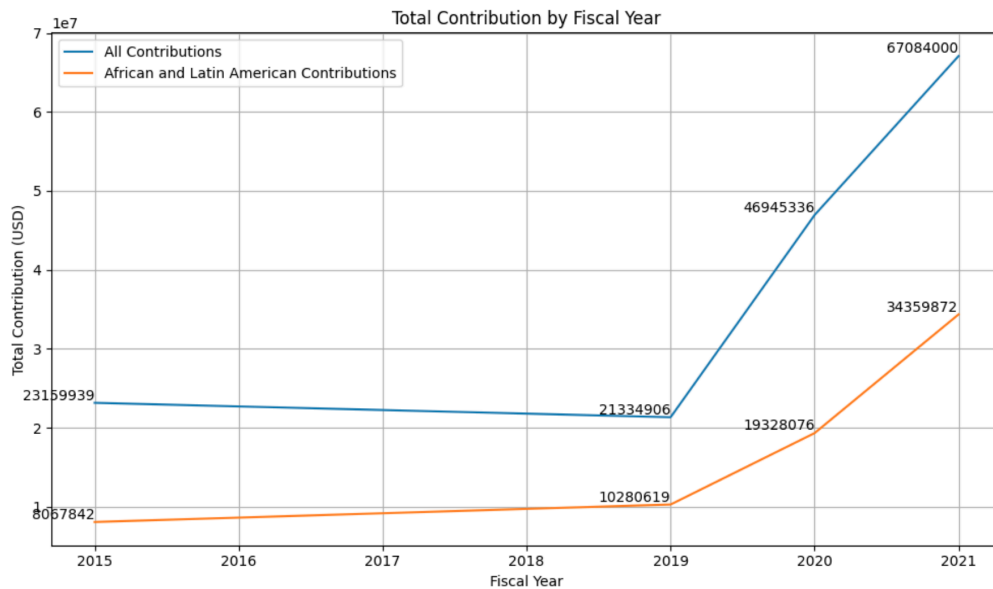
In the following document, we’ve provided the specific graphs that we have used to come to these conclusions, some of which are followed by more detailed analysis.

Coming up next, we’re going to continue to dive deeper into some of the trends to see if there’s anything we might have missed or anything more interesting that lies beneath the surface.

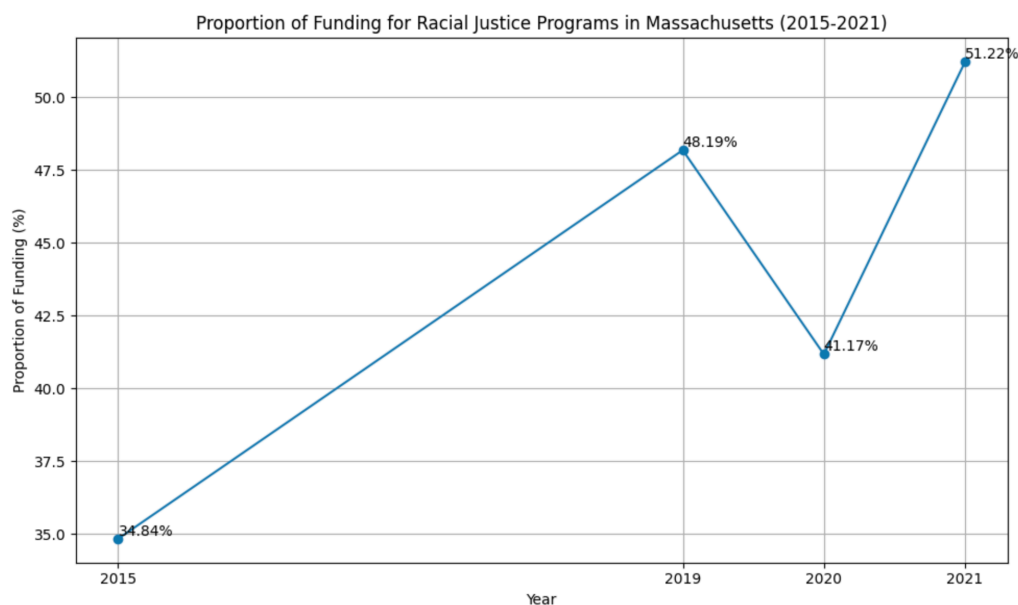
Key Questions + Answers

1. How much funding is going toward racial justice programs (based on donations to nonprofits that focus on these issues) in Massachusetts and how has this shifted over time?

Source: 'Grants' Bundle; we grouped contributions based on 'fiscal_year' on the entire dataset and a subset of the dataset that only contains grants with corresponding 'recip_population_code' which corresponds to the populations served by the organization.



The general trend of contributions to Black and Latin American organizations seem to be rising with the trend of total contributions to all organizations. However, the exact proportion of funding for racial justice programs in Massachusetts has gone up and down. It rose in 2019 and went down slightly in 2020, and rose even higher in 2021 to where over 50% of funding went towards racial justice organizations.



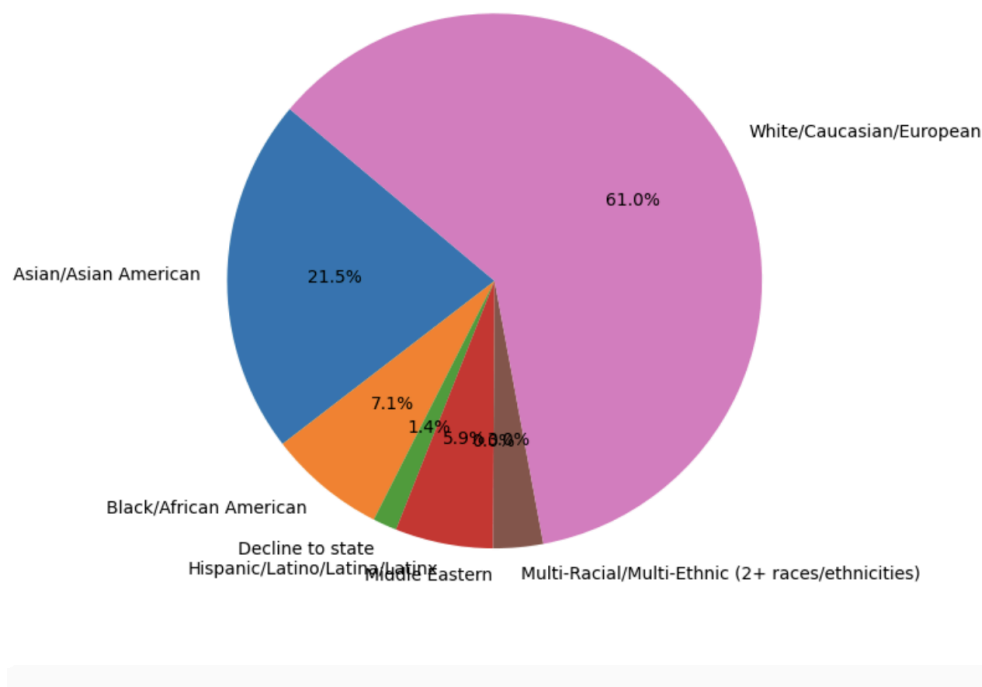
2. How much funding is going toward nonprofits led by Black or LatinX individuals (president, executive director, board chair, etc.) in Massachusetts?

Source: 'Grants' Bundle in conjunction with 'Organizations' Bundle; we merged the two datasets based on the organization name, and then utilized columns 'race_leader' and amount_usd..

Data notes: Only for 89% of organizations is leadership race data included.

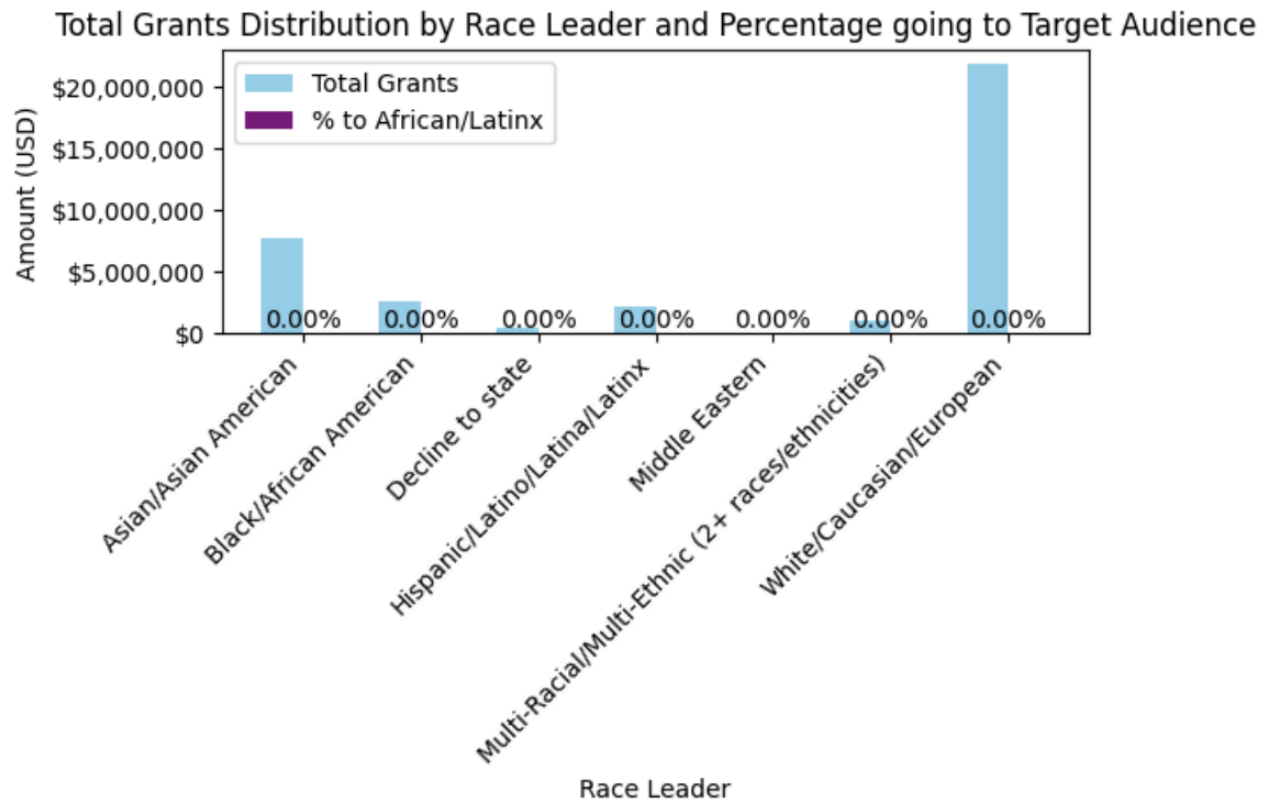
\$4,670,203.0

Total Grants Distribution by Organization Race Leader



There are some limitations:

10.26 % of orgs have no race_leader data
62.21% of organizations that received grants were lost during merge (will check on this later).
2.95% of funding is going towards nonprofits led by Black or LatinX individuals in MA = 4670203

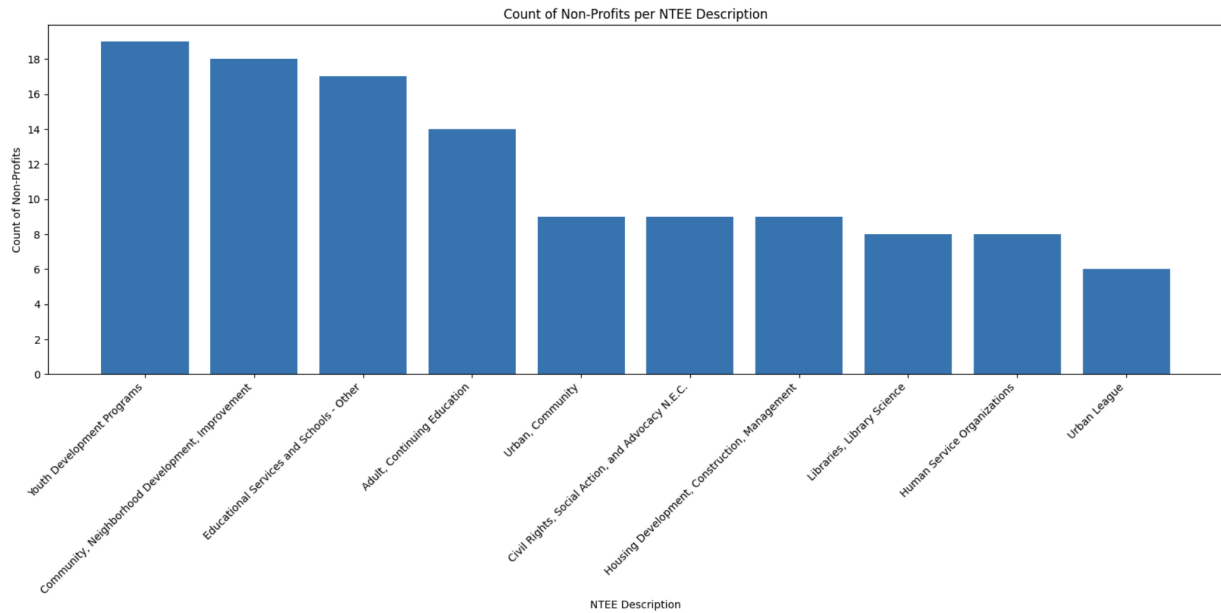


Naming inconsistencies for org_name and recip_name means data is lost during the merge of the two datasets, hence why: out of the total grants distribution, there is 0% going to the target community. We will do more data processing to fix such inconsistencies before the final submission.

3. What are other trends related to the type of organizations and grants that are being funded serving the Black and LatinX communities in Massachusetts e.g. missions of the nonprofits, issue focus of the grants, ~~changes in amounts donated over time~~, etc.

The three most common NTEE* descriptions that non-profits share are 'Education Services and Schools', 'Community, Neighborhood Development, Improvement', and 'Youth Development Program'.

Source:: 'Base Bundles' sheet; grouped by 'NTEE' counts

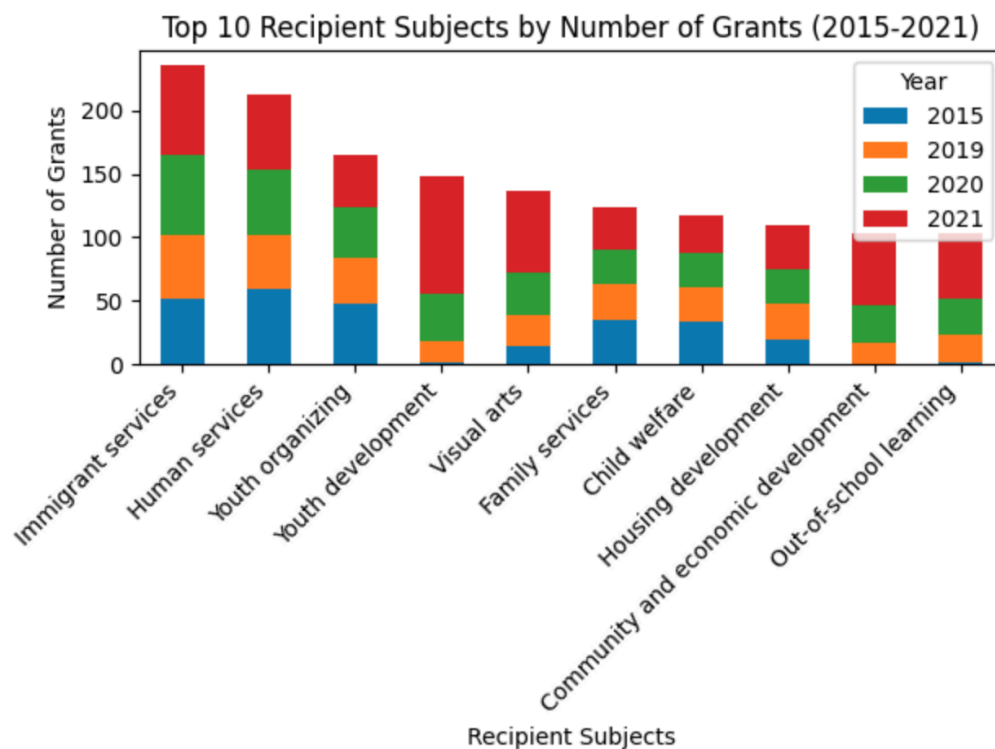
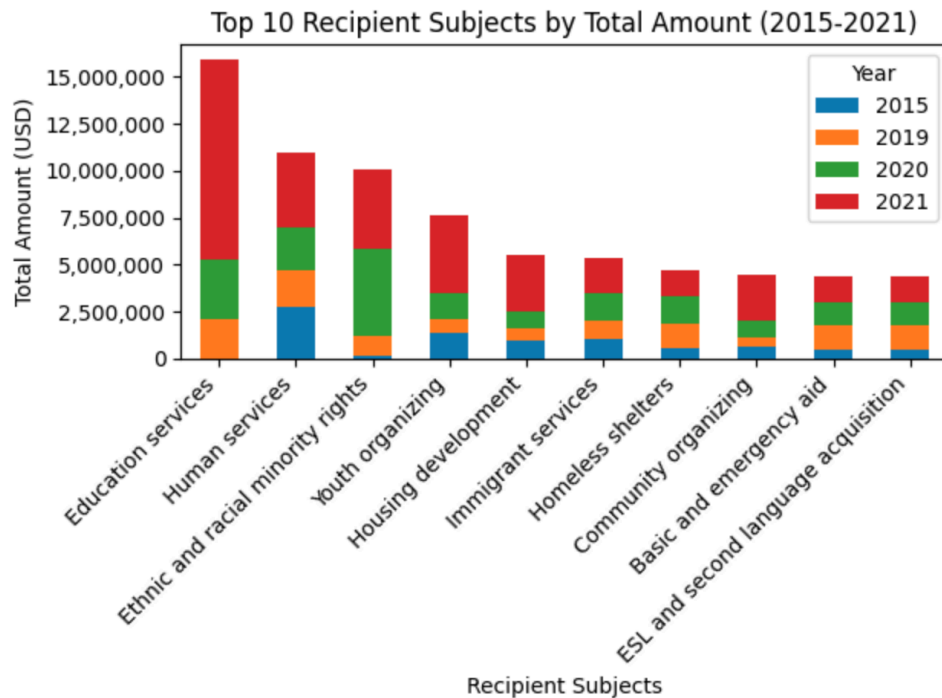


* NTEE, also known as National Taxonomy of Exempt Entities (NTEE) Code, specifies the exempt organization's purpose, so this tells us more about the mission of each of these organizations.

This visualization provides a overview of the number of non-profit organizations with the same NTEE descriptions. A quick glance shows that, after grouping organizations with the same NTEE code together, the mode of this data is 3 – meaning most commonly, there are 3 organizations with the same NTEE codes. This number jumps for the most popular NTEE codes.

Missions of the nonprofits who serve the Black and LatinX community based on grants received
 These graphs specify what subjects the organizations (from african/latinx population codes) that received the grants are focused on

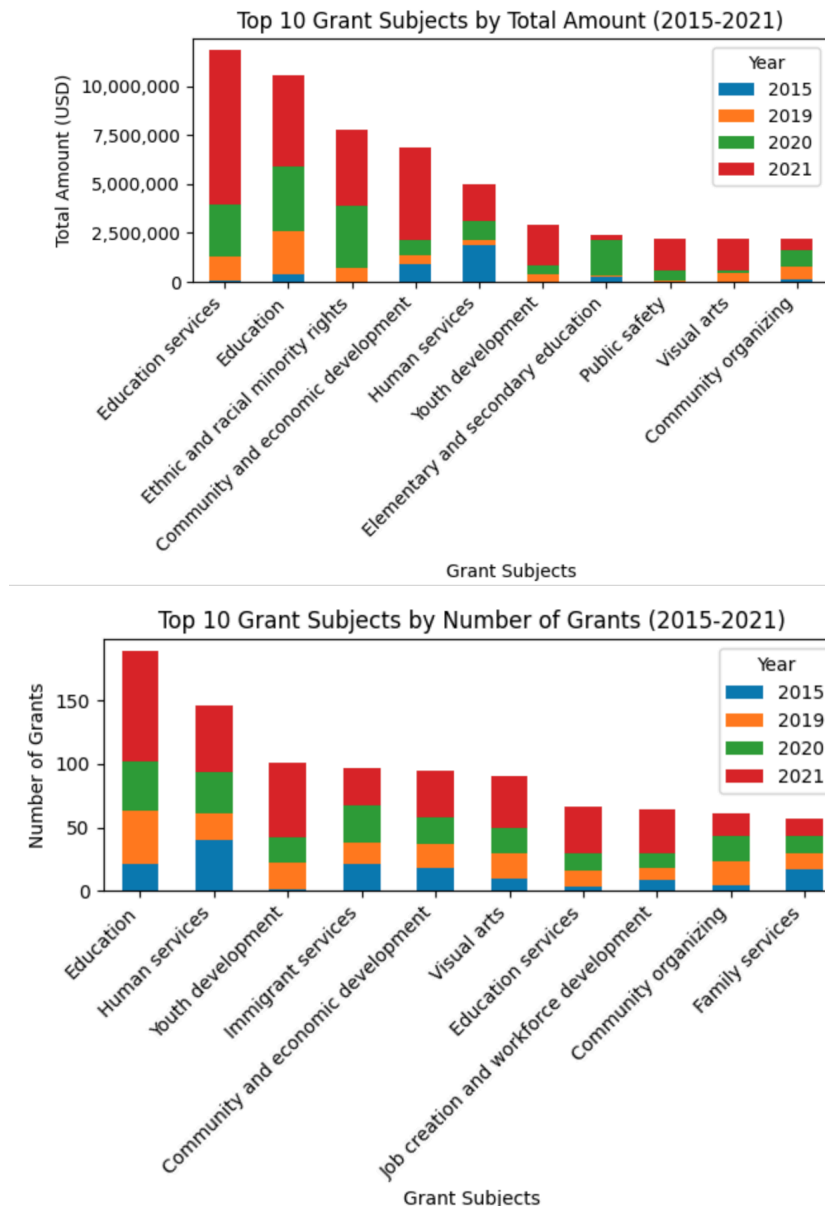
Source: 'Grants' Bundle'; grouped by 'recip_subject' which represent the core activities and services of the organization.



Issue Focus of the grants

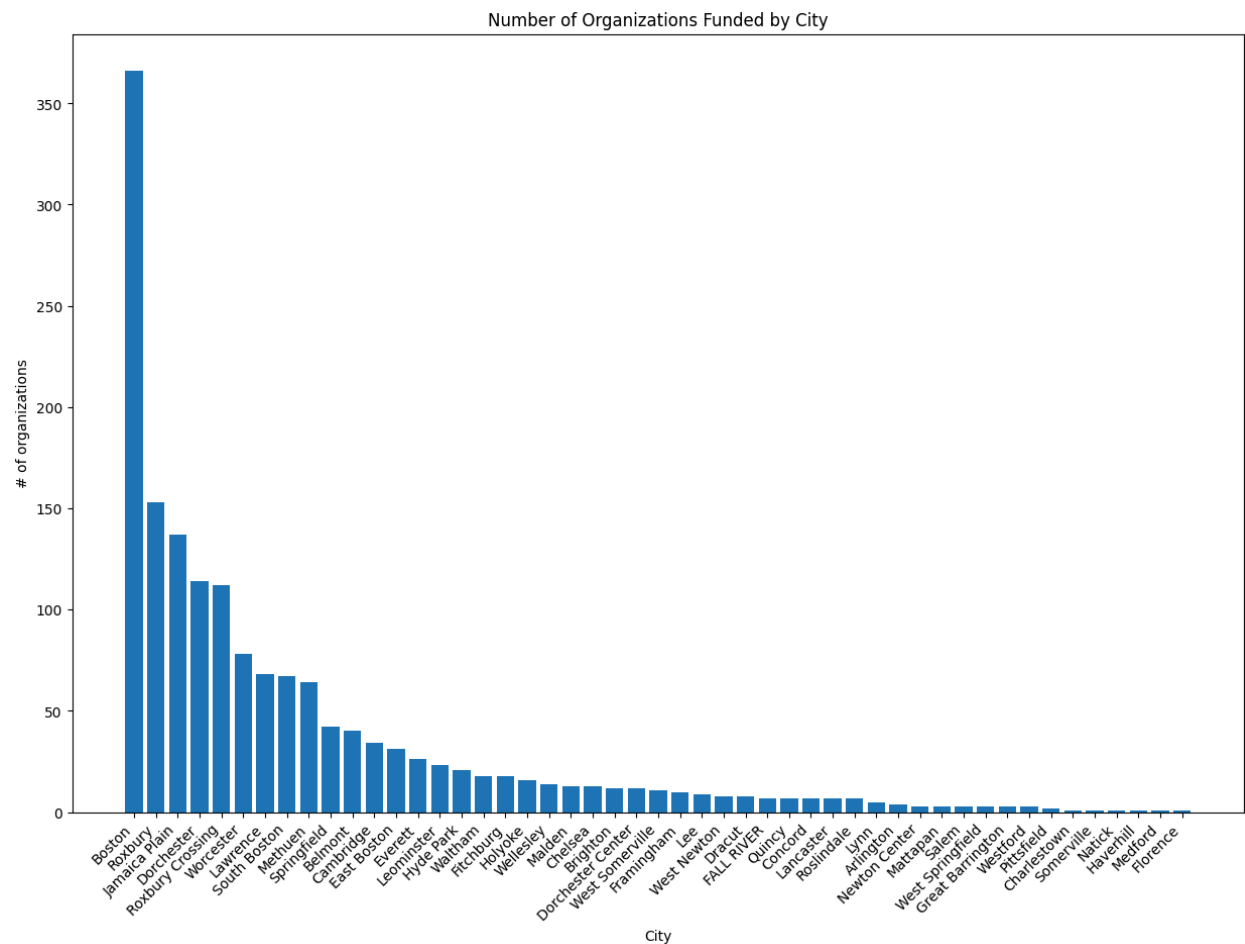
Here are the grant subject areas for African/Latinx organizations.

Source: 'Grants' Bundle; grouped by 'grant_subject' which are the core activities and services supported by the grant.



Looking at the top 10 total amount of grants given per category versus the top 10 number of grants given per category, there is some overlap in the categories (which is to be expected since it makes sense if more grants would lead to a higher total amount), but not all the categories overlap with each other. This can mean that even though some categories have more grants being made, their value is actually not that high. And looking at the years of contributions, it seems that 2021 generally had more contributions for these top categories, which also lines up with the trend that more funding was given during 2021 compared to other years for African/Latinx communities.

Source: 'Grants' Bundle; looked at recip_city
*title should be number of 'grants' funded by city

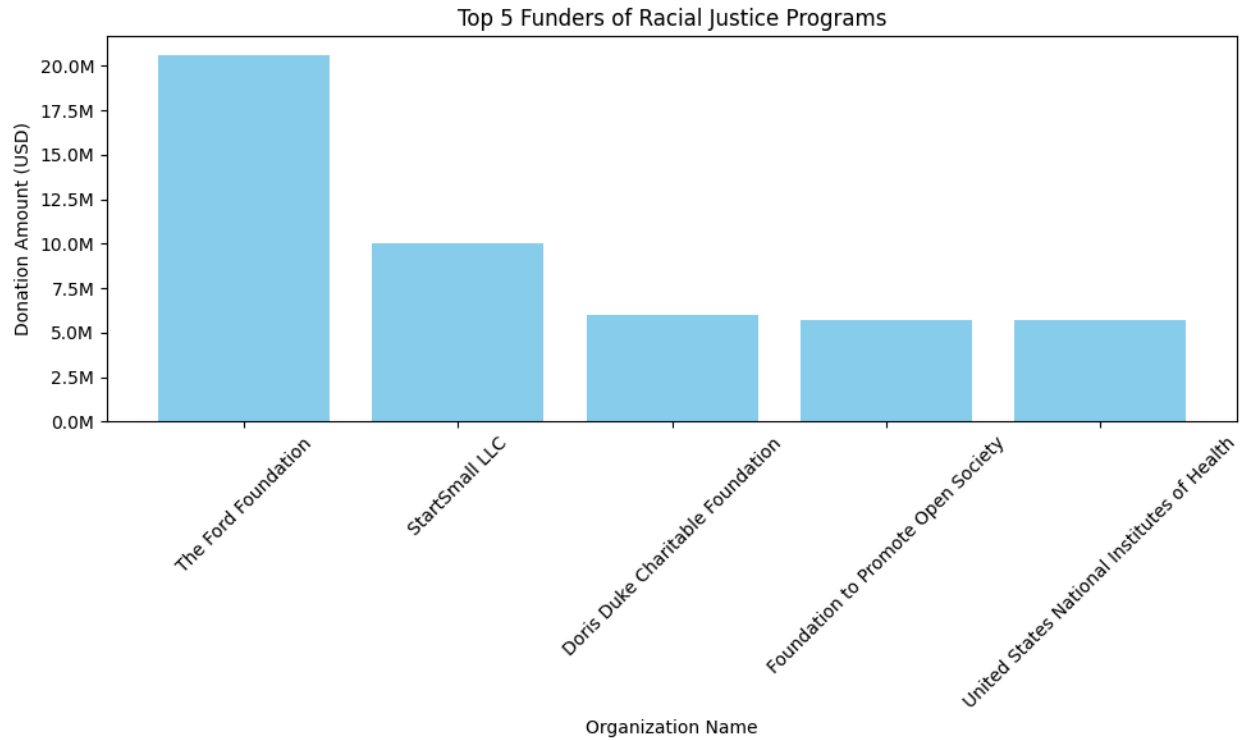


Who are the top funders of racial justice programs in Massachusetts?

Source: 'Grants' Bundle; grouped by names of gm for transactions whose population consisted of LatinX/Black

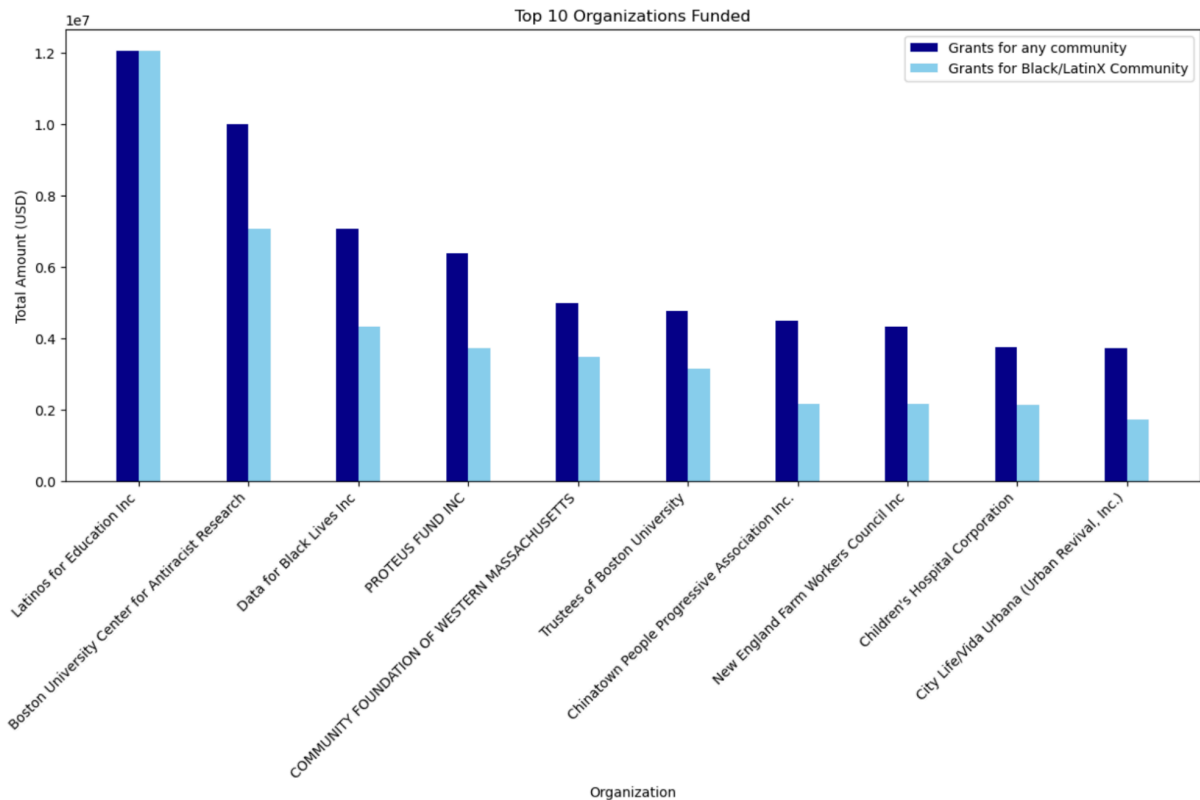
- 1. The Ford Foundation
- 2. StartSmall LLC
- 3. Doris Duke Charitable Foundation
- 4. Foundation to Promote Open Society
- 5. United States National Institutes of Health

gm_name	amount_usd
The Ford Foundation	20,631,595
StartSmall LLC	10,000,000
Doris Duke Charitable Foundation	5,986,176
Foundation to Promote Open Society	5,734,200
United States National Institutes of Health	5,704,022



Which organizations serving Black/LatinX constituencies are receiving the greatest amount of funding in Massachusetts?

Source: 'Grants' Bundle; i grouped transactions with the same recip_name together, and then displayed all their transactions *and* transactions that specifically had the Black/LatinX community in their grant_population_code column



These are the top 10 organizations that are funded based on total grant amount. There are two bars for each organization - the darker bar indicates all of the total grants that it received, and the lighter bar indicates the grants meant for the Black and LatinX community that it received. Some of these organizations, such as 'Latinos for Education' are meant to support the LatinX community, but not all of the grants it receives are noted down as for that community. I wonder if this is intentional or does it simply mean the transaction wasn't correctly tagged as for LatinX community? And if the latter, does this skew the data we have?

Extension Questions (proposed by us):

- What are some inconsistencies in the data and how does it affect our perception of the data?
- What caused the dip in proportion of funding for Black/LatinX non-profits between 2019 and 2020?
- Are there any key differences between organizations that are being funded and organizations that are funding others?
- How can we look into the non-profit missions / grant subjects and identify more trends within them?

Extension Questions (proposed by the client):

- Additional parameters:
 - Filter out hospitals, churches, and higher education institutions
 - Filter out grantmakers

- Propose a methodology for using and filtering by NTEE codes to extract more meaningful insights from organization mission. Why did you make the decisions that you did?
- What is the proportion of contributions to Black/brown communities compared to all grants?
 - How has this share of contributions changed between 2015 and 2020?
 - Where are the recipient organizations located? How does this compare to state demographic data? (Is it the case that contributions tagged as serving Black/brown communities are reaching organizations located in communities with large Black/brown communities?)