UT Austin (Dell) Medical School Admissions Analysis

Supplement to: *Racial Preferences at a Texas Medical School*

David Puelz

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Abstract

This supplement presents summary statistics and figures for MCAT, GPA, and science GPA across race and gender among medical school applicants, using data from the 2021 and 2022 admission cycles. The analysis proceeds in two parts: (1) conditional distributions and summary statistics for admitted students only, and (2) the full applicant pool with a logistic regression of admission on race, gender, MCAT, and GPA. Results are reported in tables and figures throughout.

1. Admitted sample

- Admitted students are those with status variable equal to: "Offered Admissions and Matriculated", "Declined Offer of Admissions" and "Withdrew Application after Acceptance".
- The total number of applicants with these admissions statuses equals 221.

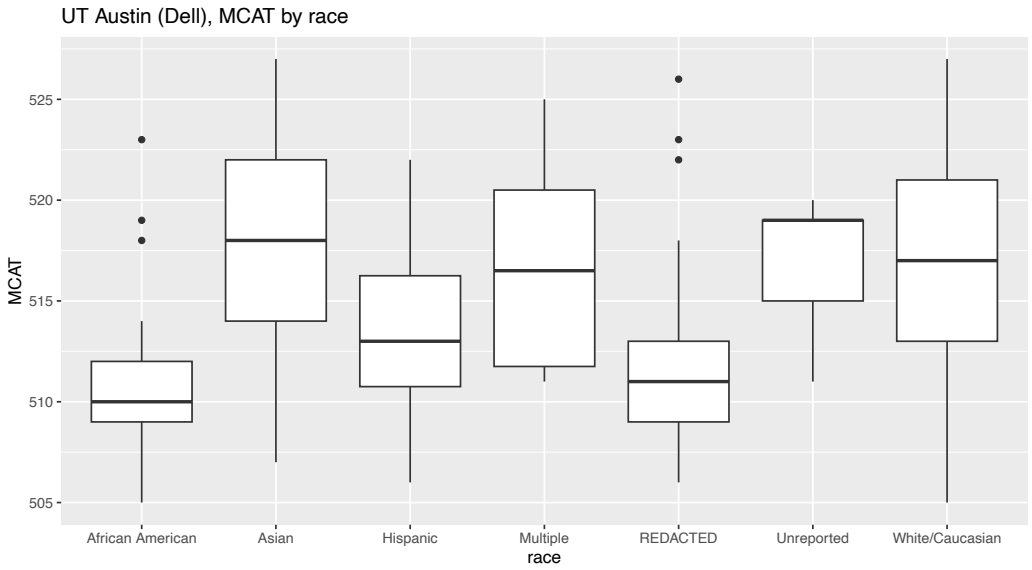

Figure 1. MCAT score by race. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

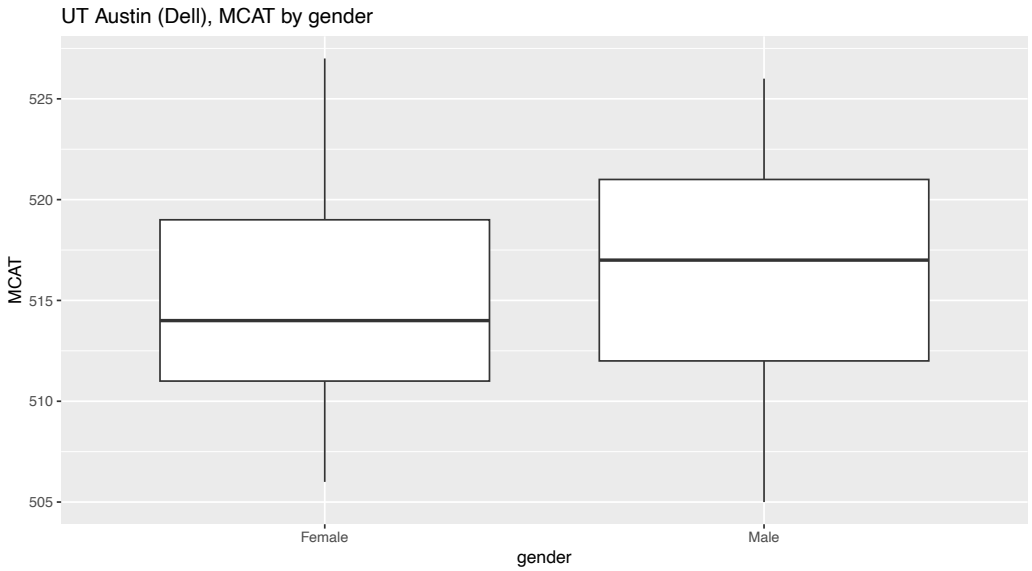

Figure 2. MCAT score by gender. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

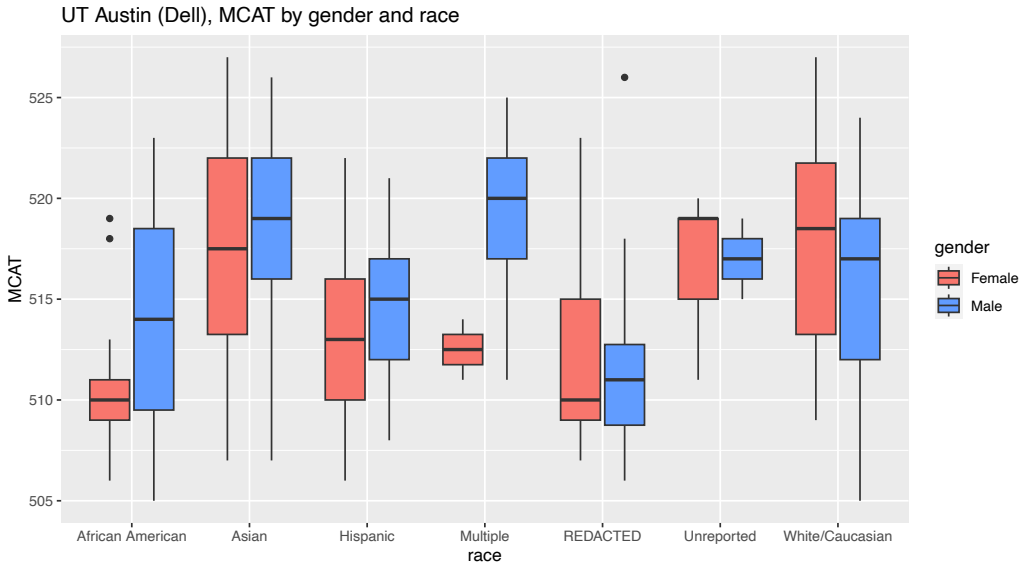

Figure 3. MCAT score by gender and race. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

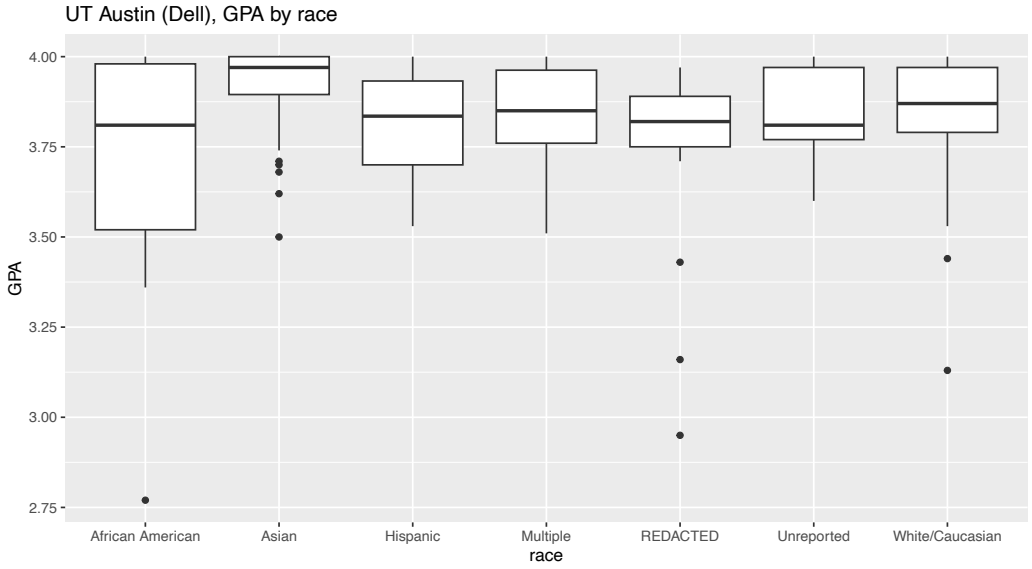

Figure 4. GPA by race. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

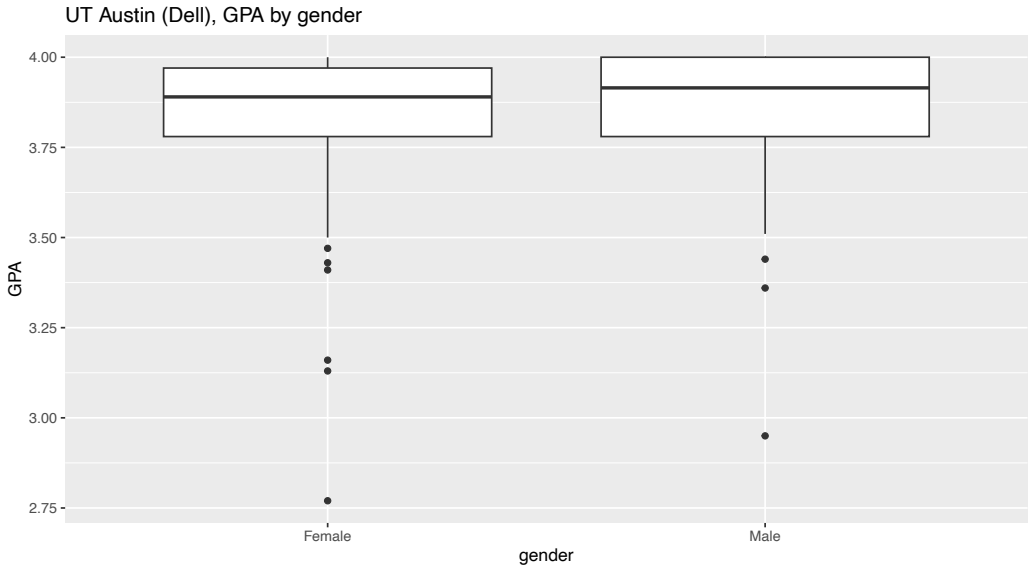

Figure 5. GPA by gender. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

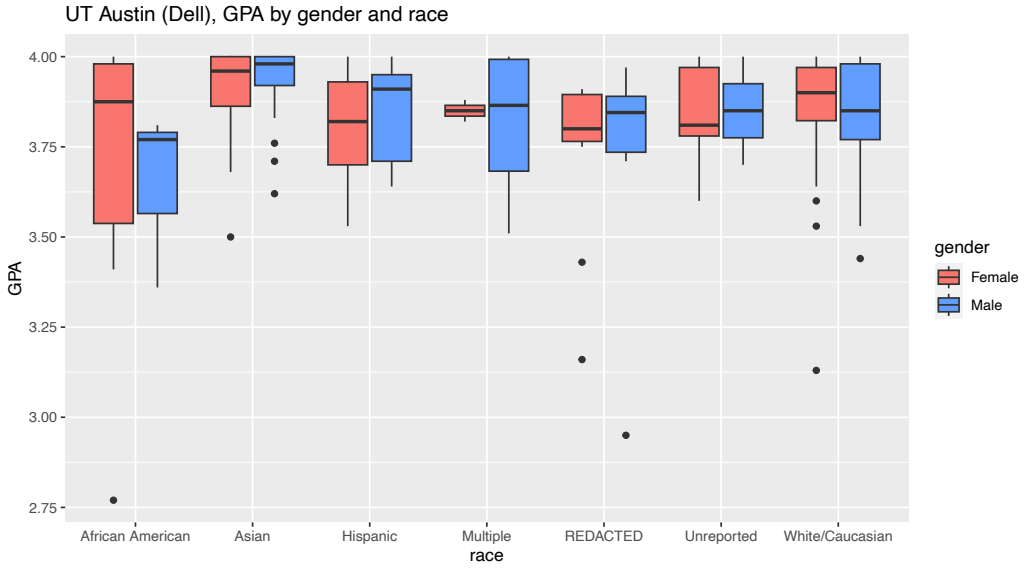

Figure 6. GPA by gender and race. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

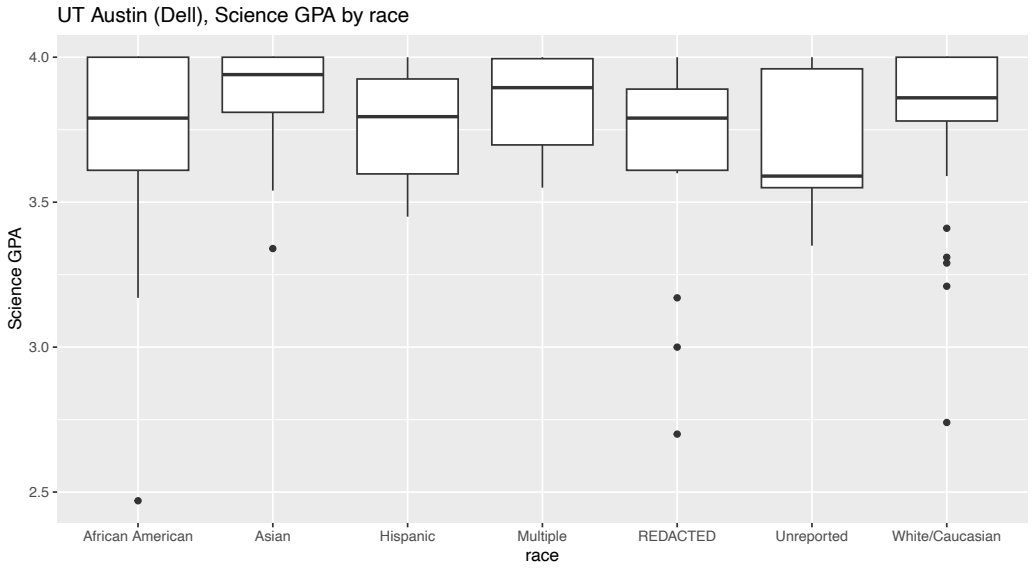

Figure 7. Science GPA by race. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

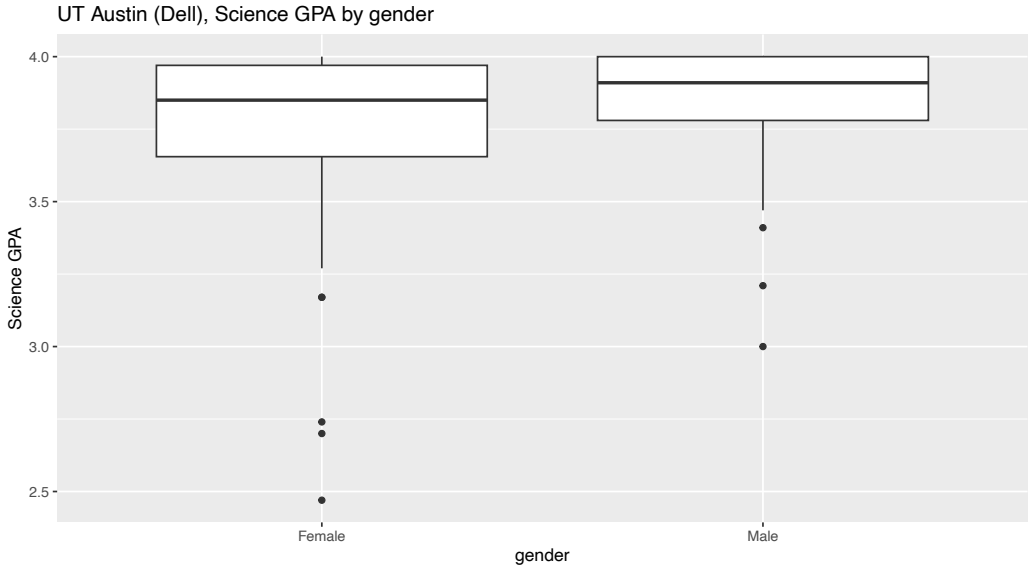

Figure 8. Science GPA by gender. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

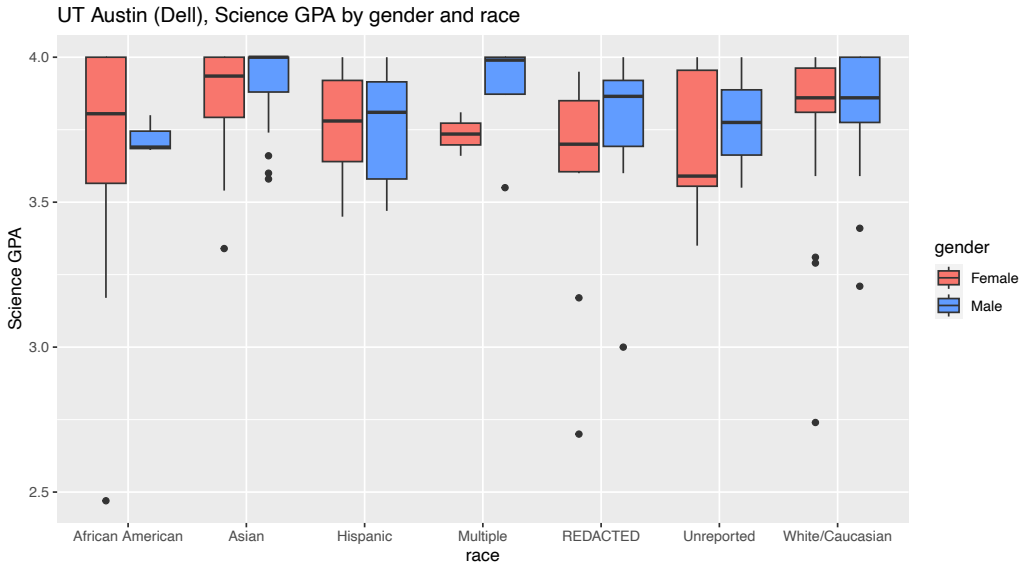

Figure 9. Science GPA by gender and race. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

race	mean	median	sd	size
African American	511.19	510.0	4.33	21
Asian	517.80	518.0	5.13	79
Hispanic	513.46	513.0	4.07	28
Multiple	516.83	516.5	5.74	6
REDACTED	512.57	511.0	5.53	21
Unreported	516.89	519.0	3.37	9
White/Caucasian	517.00	517.0	5.06	57

Table 1. MCAT score summary statistics by race.

gender	mean	median	sd	size
Female	515.27	514	5.26	131
Male	516.70	517	5.50	90

Table 2. MCAT score summary statistics by gender.

race	gender	mean	median	sd	size
African American	Female	510.72	510.0	3.30	18
Asian	Female	516.95	517.5	5.17	42
Hispanic	Female	513.10	513.0	4.04	21
Multiple	Female	512.50	512.5	2.12	2
REDACTED	Female	512.73	510.0	5.55	11
Unreported	Female	516.86	519.0	3.72	7
White/Caucasian	Female	517.93	518.5	4.88	30
African American	Male	514.00	514.0	9.00	3
Asian	Male	518.76	519.0	4.96	37
Hispanic	Male	514.57	515.0	4.28	7
Multiple	Male	519.00	520.0	5.89	4
REDACTED	Male	512.40	511.0	5.80	10
Unreported	Male	517.00	517.0	2.83	2
White/Caucasian	Male	515.96	517.0	5.16	27

Table 3. MCAT score summary statistics by race and gender.

race	mean	median	sd	size
African American	3.72	3.81	0.31	21
Asian	3.92	3.97	0.10	79
Hispanic	3.81	3.84	0.14	28
Multiple	3.82	3.85	0.18	6
REDACTED	3.75	3.82	0.26	21
Unreported	3.85	3.81	0.15	9
White/Caucasian	3.85	3.87	0.17	57

Table 4. GPA summary statistics by race.

gender	mean	median	sd	size
Female	3.84	3.89	0.19	131
Male	3.86	3.92	0.17	90

Table 5. GPA summary statistics by gender.

race	gender	mean	median	sd	size
African American	Female	3.73	3.88	0.32	18
Asian	Female	3.91	3.96	0.11	42
Hispanic	Female	3.80	3.82	0.15	21
Multiple	Female	3.85	3.85	0.04	2
REDACTED	Female	3.74	3.80	0.24	11
Unreported	Female	3.84	3.81	0.14	7
White/Caucasian	Female	3.85	3.90	0.18	30
African American	Male	3.65	3.77	0.25	3
Asian	Male	3.94	3.98	0.09	37
Hispanic	Male	3.84	3.91	0.15	7
Multiple	Male	3.81	3.87	0.23	4
REDACTED	Male	3.75	3.84	0.29	10
Unreported	Male	3.85	3.85	0.21	2
White/Caucasian	Male	3.84	3.85	0.15	27

Table 6. GPA summary statistics by race and gender.

race	mean	median	sd	size
African American	3.69	3.79	0.37	21
Asian	3.89	3.94	0.14	79
Hispanic	3.77	3.80	0.19	28
Multiple	3.83	3.90	0.19	6
REDACTED	3.68	3.79	0.33	21
Unreported	3.72	3.59	0.25	9
White/Caucasian	3.82	3.86	0.24	57

Table 7. Science GPA summary statistics by race.

gender	mean	median	sd	size
Female	3.78	3.85	0.27	131
Male	3.85	3.91	0.19	90

Table 8. Science GPA summary statistics by gender.

race	gender	mean	median	sd	size
African American	Female	3.68	3.80	0.40	18
Asian	Female	3.87	3.94	0.16	42
Hispanic	Female	3.78	3.78	0.18	21
Multiple	Female	3.74	3.74	0.11	2
REDACTED	Female	3.61	3.70	0.37	11
Unreported	Female	3.71	3.59	0.26	7
White/Caucasian	Female	3.80	3.86	0.27	30
African American	Male	3.72	3.69	0.07	3
Asian	Male	3.92	4.00	0.12	37
Hispanic	Male	3.75	3.81	0.21	7
Multiple	Male	3.88	3.99	0.22	4
REDACTED	Male	3.76	3.87	0.29	10
Unreported	Male	3.78	3.78	0.32	2
White/Caucasian	Male	3.84	3.86	0.19	27

Table 9. Science GPA summary statistics by race and gender.

2. Entire sample and initial regression results

In this section, we present preliminary analysis of both the admitted and rejected students. Figure 10 compares the admitted and rejected students' MCAT scores across the different race categories. Note that the far right distribution (rejected whites) is comparable to the far left distribution (admitted blacks).

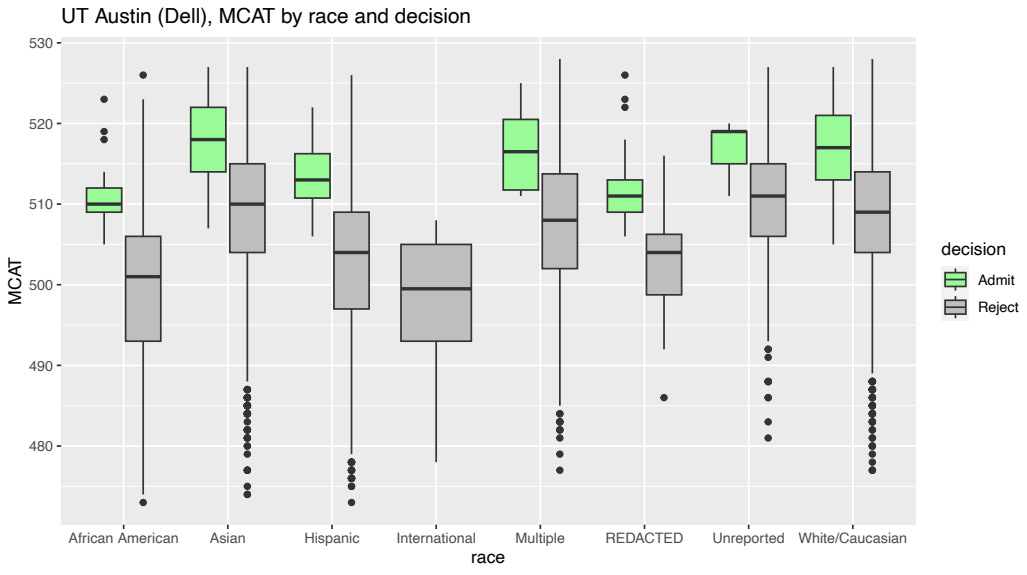

Figure 10. MCAT score by gender and admission decision. Boxes represent the inner-quartile-range (25th to 75th quantiles), and the solid black line represents the median.

As a final exercise, we fit a logistic regression model for the admission decision as a function

of all other measured characteristics. Table 10 displays the model estimates and fit. The base categories for race and gender (incorporated into the intercept) are white males. The rows denote the different variables, the first number is the parameter estimate, and the second number is the estimate's standard error. These numbers are slope coefficients on a log-odds scale. Therefore, they can easily be converted to a "probability of admission" scale using the logistic cumulative density. A significant positive estimate indicates an increase in the odds of admission over the base categories (white and male).

	estimate (s.e.)
(Intercept)	-101.95 (6.73)***
genderDecline to Answer	-11.77 (479.79)
genderFemale	0.70 (0.15)***
raceAfrican American	2.09 (0.28)***
raceAsian	0.37 (0.18)*
raceHispanic	1.01 (0.24)***
raceInternational	-10.32 (741.95)
raceMultiple	0.16 (0.44)
raceREDACTED	5.86 (0.43)***
raceUnreported	0.41 (0.37)
MCAT	0.18 (0.01)***
GPA	-0.13 (1.00)
GPA_sci	1.71 (0.80)*
AIC	1717.68
BIC	1813.47
Log Likelihood	-845.84
Deviance	1691.68
Num. obs.	11717

$^{***}p < 0.001$; $^{**}p < 0.01$; $^{*}p < 0.05$

Table 10. Logistic regression model of admission probability.

This model also provides a predicted probability of admission given a known set of variable values. We compute predictions for a "median male" applicant and show how they differ by race in Figure 11. "Median male" is defined as an applicant with median values of the MCAT score, GPA and science GPA. These medians are computed across the entire sample of applicants. A striking result is how much these predicted probabilities vary across race. However, this is not surprising, given the race categories' significant partial effects on the log-odds as displayed in Table 10.

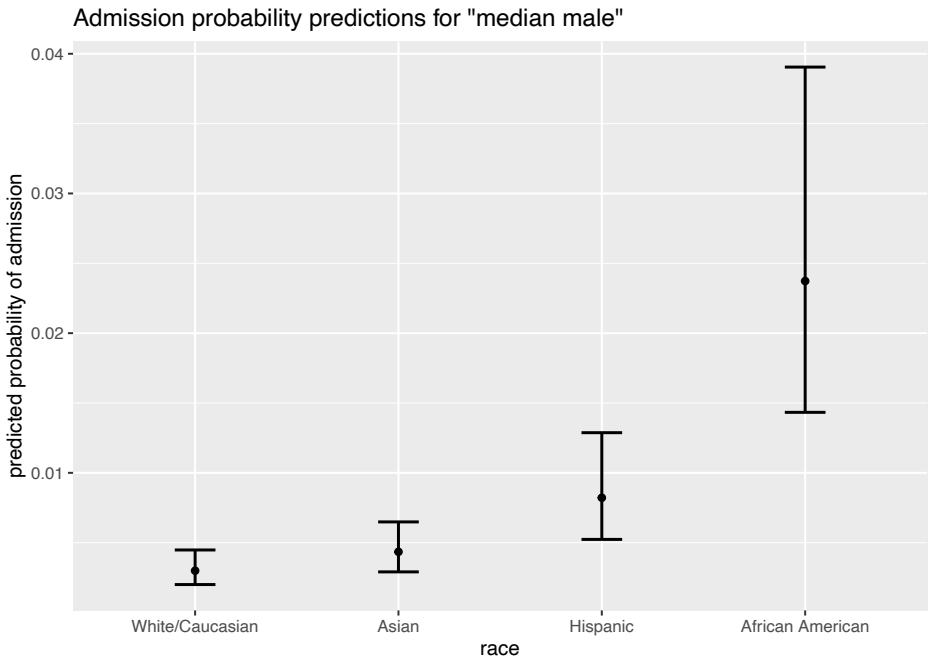

Figure 11. Predicted probability of admission for males with median MCAT, GPA, and science GPA. The lines represent the 95% uncertainty intervals about these predictions.