

Supplementary Material

Table S1. Summary on the statistical tests undertaken for specific analysis.

Section of Analysis	Methods of Statistical Test	Purpose of Analysis
3.1. Visiting Preferences across Demographic Groups for Parks Visited on Foot	Chi-square Test	To verify whether there are significant differences of visiting preferences (walking time, visiting duration, visiting frequency) among demographic groups (age, gender, educated level).
	Z-test and Cross Tabulation	To indicate significant differences of visiting duration among some education groups.
	Chi-square Test	To explore the correlations between transport methods and traveling time, between visiting frequency, visiting duration and walking time.
3.2. Effect of Factors on Park Usage		To explore the between-subjects effect of different walking time on the correlation between visiting frequency and visiting duration and to investigate the between-subject effects of different transportation modes on the correlation between traveling time and ease of access.
	Univariate General Linear Model	
3.3. Motivations and Barriers on Park Visitation among Different Visitor Groups	Chi-square Test	To verify whether there are significant differences of visitor groups (age, gender, education, frequent/infrequent, traveling time, visiting duration) on their reasons for visiting parks; To explore the correlation between demographic groups (age, gender, educated level) and barriers on visiting parks.
	Cross Tabulation	To explore specific differences of reasons and barriers among correlated visitor groups.

Table S2. Summary on reasons to visit parks by population groups.

Reasons for visiting parks								Total
	Walking/ exercise	Relieve stress	Gain inspiratio n	Socialize with strangers	Enjoy views	Meet with friends or family	Pass by on the commute	
All visits (N=2236)	27%	18%	18%	15%	12%	7%	3%	100%
By age								
18-24	33.62%	19.79%	13.62%	12.66%	11.91%	5.32%	3.09%	100%
25-30	26.92%	16.91%	19.25%	15.60%	10.92%	7.28%	3.12%	100%
31-40	25.02%	17.83%	18.89%	15.44%	13.23%	6.90%	2.68%	100%
41-50	28.19%	17.53%	16.73%	11.65%	14.44%	8.67%	2.79%	100%
>50	31.82%	15.91%	15.91%	17.05%	10.23%	5.68%	3.41%	100%
By gender								
Female	27.60%	18.99%	16.54%	12.24%	14.77%	6.75%	3.12%	100%
Male	26.80%	16.85%	19.17%	16.45%	10.78%	7.15%	2.80%	100%
By education								
High school and below	31.16%	14.92%	16.92%	16.97%	10.20%	7.42%	2.41%	100%
High school to college	25.69%	17.56%	19.78%	15.53%	11.65%	7.21%	2.59%	100%
Undergraduate and above	28.18%	18.55%	16.36%	13.45%	13.64%	6.36%	3.45%	100%
By visiting frequency								
Frequent (>= once a month)	26.90%	17.55%	18.45%	15.05%	12.14%	6.98%	2.92%	100%
Infrequent (< once a month)	37.74%	23.58%	3.77%	4.72%	19.81%	7.55%	2.83%	100%
By traveling time								
<15 mins	25.13%	17.71%	18.62%	16.08%	11.70%	6.91%	3.85%	100%
16-30 mins	22.61%	17.60%	20.17%	15.76%	12.27%	8.20%	3.39%	100%
31-40 mins	22.52%	17.14%	18.99%	16.39%	13.70%	8.40%	2.86%	100%
>40 mins	26.34%	18.41%	16.08%	14.22%	14.22%	8.39%	2.33%	100%
By visiting duration								
<15 mins	36.23%	13.58%	13.58%	14.72%	9.43%	4.91%	7.55%	100%
16-30 mins	28.52%	16.70%	19.19%	15.94%	10.38%	6.38%	2.90%	100%
31-45 mins	25.05%	18.04%	19.61%	14.99%	11.94%	7.62%	2.74%	100%
46-75mins	25.32%	19.22%	16.49%	14.08%	15.34%	7.46%	2.10%	100%
>75 mins	27.38%	17.87%	15.59%	12.17%	16.73%	8.75%	1.52%	100%

¹ Colour denotes significant findings discussed within the main article. Darkness of cell's colour corresponds to the value in this cell (the darker the colour, the larger the value).

Table S3. Summary on barriers of visiting parks infrequently (less than once a month) by population groups.

	Barriers on visiting parks					Total
	Lack of time	Prefer Other places	Poor quality of park	Long walking time	No interest	
All visits (N=53)	52.63%	18.42%	15.79%	10.53%	2.63%	100%
By age						
18-24	47.37%	47.37%	0.00%	5.26%	0.00%	100.00%
25-30	84.62%	7.69%	0.00%	7.69%	0.00%	100.00%
31-40	47.06%	5.88%	5.88%	0.00%	41.18%	100.00%
>40	0.00%	0.00%	50.00%	50.00%	0.00%	100.00%
By gender						
Female	50.00%	18.75%	14.58%	16.67%	0.00%	100.00%
Male	26.67%	13.33%	6.67%	6.67%	46.67%	100.00%
By education						
High school and below	50.00%	0.00%	16.67%	16.67%	16.67%	100.00%
High school to college	10.00%	80.00%	0.00%	10.00%	0.00%	100.00%
Undergraduate and above	50.00%	25.00%	8.33%	16.67%	0.00%	100.00%

¹ Colour denotes significant findings discussed within the main article. Darkness of cell's colour corresponds to the value in this cell (the darker the colour, the larger the value).