Table S1 presents a sample of the raw data downloaded from the Dianping platform for this study.

Table S1. Example Dianping.com reviews

Park	User	Star	Review	Translate Review	Gender
Lujiazui Centre Green	Flora***e	5	陆家嘴的氧气机，也是一个欣赏春天樱花盛开、池塘观赏鱼、不定期举办一些咖啡节活动等等的好地方，是一种中午绕着办公楼公园散步的方式，天气好的时候出片率也很高。	Lujiazui's oxygen machine, but also a good place to enjoy the spring cherry blossoms, ornamental fish in the pond, from time to time to hold some coffee festival activities and so on, is a kind of midday walk around the office building park, when the weather is good out of the film rate is also very high.	N/A
Tianshan Park	Ado***u	5	天山公园位于长宁延安西路市区的中心, 麻雀虽小, 但是完成, 儿童游乐场, 亭台楼阁, 牡丹花园, 葫芦湖, 一切, 儿童游乐场适合年幼的孩子。	Tianshan Park is located in the center of Changning downtown Yan'an West Road, the sparrow is small but complete, children's playground, pavilions, peony gardens, gourd lake, everything, children's playground is suitable for young children.	Female
Fuxing Island Park	Cxy***7	4	昨天我看到有人写了一篇评论，我意识到我没有写就把这张照片给传了。我记得有一段时间有人投票刷这个公园，然后去取名字。	I saw someone write a review yesterday and realized I had passed on the picture without writing one. I remember a period a vote of people brushes this park, and then went to the name.	Female

Table S2 presents the OLS regression analysis results of the social interaction intensity in urban parks during the pre-pandemic (First period).

Table S2. OLS results of urban park social interaction intensity (First period)

Variable	Coef.	SE	VIF	P-value
Park Facilities and Environment				
Park Area	-2.844×10^{-8}	2.59×10^{-8}	2.894003	0.274
Park’s water body area	2.496×10^{-7}	1.49×10^{-7}	2.876267	0.097*
Natural Landscapes	-0.2083	0.121	1.108642	0.088*
Service Facilities	0.0948	0.076	1.521984	0.216
Design Features	0.1626	0.042	1.136295	0.000***
Perceptual Experience	-0.1581	0.390	1.127421	0.685
Restaurant in the Park	0.0012	0.002	1.601084	0.476
Toilet in the Park	0.0083	0.004	1.555734	0.021**
Urban Parks Surrounding Environment				
Population Density	4.079×10^{-7}	9.04×10^{-7}	1.999869	0.653
Building Density	0.5445	0.157	3.876538	0.001***
Shopping Venues	9.207×10^{-5}	5.08×10^{-5}	1.137466	0.072*

Science and Education	-2.845×10^{-5}	8.88×10^{-5}	5.337938	0.749
Hotels and Inns	0.0002	0.000	1.595877	0.243
Government Agencies	5.008×10^{-5}	0.000	5.181735	0.619
Road Intersections	-4.502×10^{-5}	2.14×10^{-5}	1.677641	0.037**
Parking Lot	-0.0010	0.000	6.300713	0.017**
Public Transportation Stations	-0.0007	0.000	1.417460	0.066
Land Use Diversity Index	0.0712	0.047	2.584840	0.141
Observation		160		
R^2		0.321		

Significance levels: "" p < 0.100, "**" p < 0.050, "***" p < 0.010.*

Table S3 presents the OLS regression analysis results of the social interaction intensity in urban parks during the post-pandemic (Third period).

Table S3. OLS results of urban park social interaction intensity (Third period)

Variable	Coef.	SE	VIF	P-value
Park Facilities and Environment				
Park Area	-3.255×10^{-8}	2.67×10^{-8}	2.894003	0.226
Park's water body area	3.148×10^{-7}	1.54×10^{-7}	2.876267	0.043**
Natural Landscapes	0.0164	0.125	1.108642	0.896
Service Facilities	0.0406	0.079	1.521984	0.607
Design Features	0.1943	0.044	1.136295	0.000***
Perceptual Experience	0.6641	0.402	1.127421	0.101
Restaurant in the Park	0.0030	0.002	1.601084	0.091*
Toilet in the Park	0.0042	0.004	1.555734	0.252
Urban Parks Surrounding Environment				
Population Density	1.86×10^{-6}	9.34×10^{-7}	1.999869	0.048**
Building Density	0.1464	0.162	3.876538	0.367
Shopping Venues	2.428×10^{-5}	5.24×10^{-5}	1.137466	0.644
Science and Education	7.363×10^{-7}	9.17×10^{-5}	5.337938	0.994
Hotels and Inns	-9.747×10^{-5}	0.000	1.595877	0.556
Government Agencies	6.401×10^{-5}	0.000	5.181735	0.538
Road Intersections	2.53×10^{-5}	2.21×10^{-5}	1.677641	0.253
Parking Lot	-0.0010	0.000	6.300713	0.016**
Public Transportation Stations	-0.0002	0.000	1.417460	0.640
Land Use Diversity Index	0.0702	0.047	2.584840	0.140
Observation		160		
R^2		0.266		

Significance levels: "" p < 0.100, "**" p < 0.050, "***" p < 0.010.*

Table S4 presents the GWR analysis results of the social interaction intensity in urban parks during the pre-pandemic (First period).

Table S4. GWR results of urban park social interaction intensity (First period)

Variable	Mean	SE	Min	Max
Park Facilities and Environment				

Park Area	-0.262	0.134	-0.631	-0.130
Park's water body area	0.247	0.061	0.132	0.390
Natural Landscapes	-0.147	0.012	-0.157	-0.086
Service Facilities	0.091	0.043	0.012	0.215
Design Features	0.240	0.037	0.187	0.356
Perceptual Experience	-0.015	0.033	-0.115	0.035
Restaurant in the Park	0.034	0.031	-0.009	0.106
Toilet in the Park	0.211	0.027	0.149	0.273
Urban Parks Surrounding Environment				
Population Density	-0.025	0.054	-0.081	0.151
Building Density	0.424	0.103	0.325	0.795
Shopping Venues	0.153	0.028	0.075	0.222
Science and Education	-0.109	0.030	-0.175	-0.011
Hotels and Inns	0.050	0.047	-0.024	0.166
Government Agencies	0.171	0.107	-0.204	0.304
Road Intersections	-0.144	0.036	-0.272	-0.090
Parking Lot	-0.391	0.040	-0.498	-0.298
Public Transportation Stations	-0.161	0.047	-0.292	-0.048
Land Use Diversity Index	0.273	0.110	0.067	0.529
Observation		160		
R^2		0.455		

Table S5 presents the GWR analysis results of the social interaction intensity in urban parks during the post-pandemic (Third period).

Table S5. GWR results of urban park social interaction intensity (Third period)

Variable	Mean	SE	Min	Max
Park Facilities and Environment				
Park Area	-0.428	0.241	-1.016	-0.085
Park's water body area	0.400	0.098	0.102	0.546
Natural Landscapes	0.013	0.068	-0.156	0.151
Service Facilities	-0.028	0.091	-0.129	0.270
Design Features	0.306	0.060	0.201	0.504
Perceptual Experience	0.141	0.091	-0.099	0.322
Restaurant in the Park	0.139	0.061	-0.002	0.270
Toilet in the Park	0.115	0.053	0.003	0.225
Urban Parks Surrounding Environment				
Population Density	0.159	0.098	-0.106	0.436
Building Density	0.047	0.232	-0.599	0.896
Shopping Venues	0.051	0.052	-0.059	0.192
Science and Education	-0.118	0.091	-0.269	0.162
Hotels and Inns	-0.099	0.093	-0.220	0.192
Government Agencies	0.219	0.166	-0.254	0.608
Road Intersections	0.161	0.116	-0.253	0.300
Parking Lot	-0.344	0.121	-0.738	-0.072

Public Transportation Stations	-0.068	0.076	-0.298	0.062
Land Use Diversity Index	0.268	0.205	-0.167	0.740
Observation		160		
R^2		0.554		

Figure S1 illustrates the selection of the ten vectors most similar to the “dancing” vector from a set of 100 vectors, representing the most relevant synonyms.

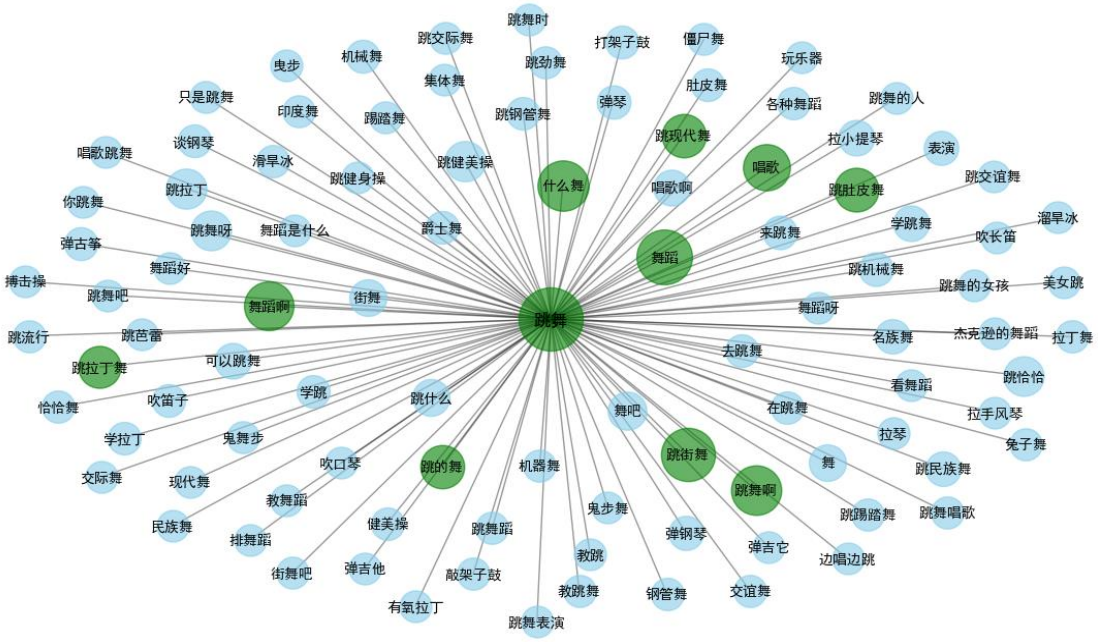

Figure S1. Synonym screening diagram

Figure S2 illustrates the spatial distribution of local regression coefficients for variables significantly associated with the social interaction intensity in parks during the pre-pandemic (First period), as revealed by the GWR analysis.

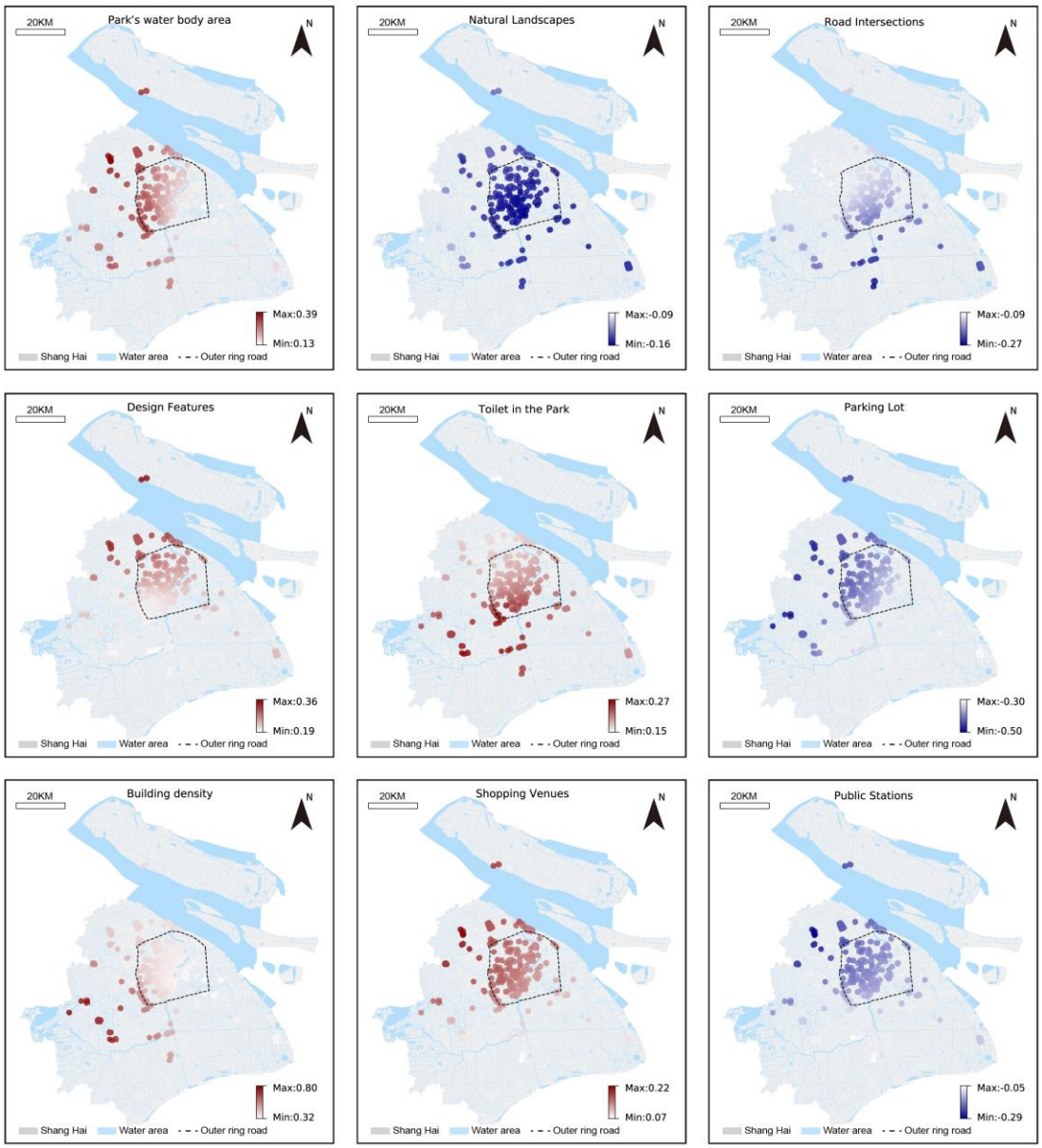

Figure S2. Spatial distribution map of local regression coefficients for variables significantly correlated with park's social interaction intensity (First period)

Figure S3 illustrates the spatial distribution of local regression coefficients for variables significantly associated with the social interaction intensity in parks during the post-pandemic (Third period), as revealed by the GWR analysis.

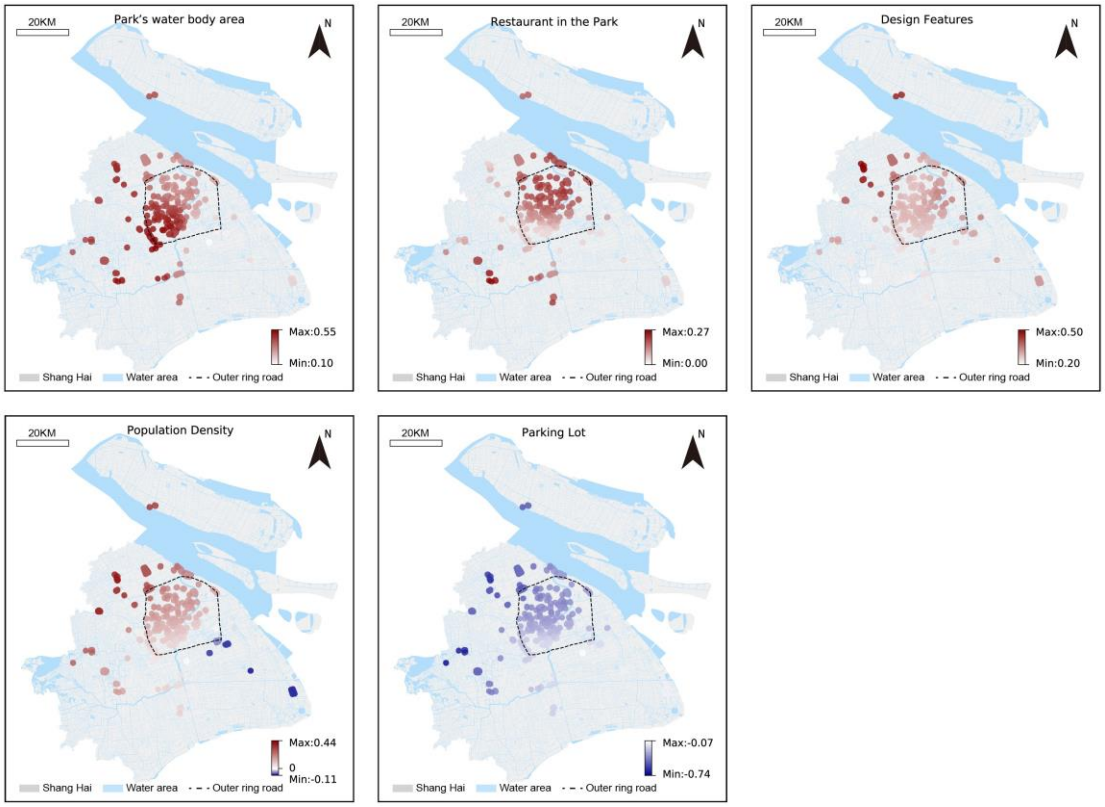

Figure S3. Spatial distribution map of local regression coefficients for variables significantly correlated with park's social interaction intensity (Third period)