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		$\neg$	ᆫ	ᆫ

## QUESTIONNAIRE

	Perception of urban parks	' soundscape questionnaire
	Date:	Location:
	And the second s	
	Start time:	End time:
	Section 1	
	How old are you? ( )	
	What is your gender?	
1 —	○Male	
2	○ Female	
1	Do you have any companion with you during this	visit?
1	OAlone	
2	OTwo people	
3	OThree to five people	
4	○Small family	
5	○ Big family	
'	What is the highest level of education you have c	ompleted?
1	OPrimary school	
2	OSecondary school	
3	OSecondary school graduate	
4	OTrade/technical/vocational college	
5	OTrade/technical/vocational college graduate	
6	OSome college	
7	○ College graduate	
8	OSome postgraduate work	
9	O Post graduate degree	
	What is your occupational status?	
1	○Employed	
2	OUnemployed	
3	Retired	
4	Student	
5	Other	
	What is your monthly income? (RMB)	
1	○<1000	
2	○1000-4000	
3	○4000-7000	
4	○7000-10000	
5	○>10000	
,	Where do you live for a long time ?	
1	○Village	
2	OCity	

	What is your residential status?										
1											
2	O Local resident										
	OTourist										
3 —	Oher										
	What is the distance from your current residence to here?										
1	○0-500										
2	O500-1500										
3	①1500-3000										
4	○3000-4500										
5	○>4500										
	0.7 1000										
	How often do you visit this place?										
1	ORarely										
2	O Several times in a year										
3	Once in a month										
4	Once in a weak										
5	OTwice or thrice in a weak										
6	OEveryday										
	How long have you been here?										
1 ———											
2	O<30min										
	O30min-1h										
	O1-3h										
4	○>3h										
	What kind of activities do you usually do here?										
1	OParent-child activities										
2	OFitness and health activities										
3	OSports and leisure activities										
4	30 m 1 20										
5	O Social activities O Specialized activities										
6	OQuiet activities										
7	OPublic participation activities										
8	OOther										
0											
	Section 2										
	What is the occurrence of birds sound in this place?										
	ONEVER OCcasionally OModerately OFrequently OAlways										
PO	(trigger)										
1 Never	How loud is this sound in this place?										
2 Occasionally	·										
3 Moderately	Very quiet Oquiet Olvioderate Octobr Overy ioud										
4 Frequently	Do you like this sound in this place?										
5 — Always	OVery negative ONegative OModerate OPositive OVery positive										
	Can you see the visual source of this sound at here?										
	·										
	○Yes ○No										
	What is the occurrence of insects sound in this place?										

			○Never	Occasionally	○ Moderate	ly OFrequent	ly OAlway	rs
	PL			(trigger)				
	PL			How loud is this	sound in this place	?		
1 —		Very quiet		O Very quiet	OQuiet	○ Moderate	e OLoud	OVery loud
2 —		<ul><li>Quiet</li><li>Moderate</li></ul>		Do you like this s	ound in this place?	?		
4 —		— Loud		OVery negative	○ Negative	○ Moderate	e OPositiv	ve OVery positive
5 —	4:	<ul><li>Very loud</li></ul>		Can you see the v	visual source of this	s sound at here?		
				OYes	ONo			
			What is the	e occurrence of leav	es rustling sound in	n this place?		
			○Never	Occasionally	O Moderately	OFrequently	OAlways	
				(trigger)				
	PR			How loud is this so	ound in this place?			
1 —		Very negative		O Very quiet	○Quiet	○Moderate	OLoud	OVery loud
2 —		Negative		Do you like this so	und in this place?			
3 —		Moderate Positive		OVery negative	○Negative	○Moderate	OPositive	OVery positive
5 —		Very positive		Can you see the vi	sual source of this	sound at here?		
	J			○Yes	ONo			
			What is the	occurrence of duck	s sound in this place	ce?		
			ONever	Occasionally	OModerately		OAlways	
			o never	(trigger)				
	VS			How loud is this so	und in this place?			
	1					OModerate	Olaud	OVen deud
2 —		Yes No		O Very quiet	OQuiet	Olvioderate	OLoud	OVery loud
	Į			Do you like this so		ONA-dausta	OBasitiva	OViti
				O Very negative	ONegative	OModerate	OPositive	OVery positive
				Can you see the vis		sound at here?		
				OYes	ONo			
				occurrence of dogs	s sound in this place	e?		
			○Never	Occasionally	○ Moderately	OFrequently	○ Always	
			ľ	(trigger)				
				How loud is this so	und in this place?			
				O Very quiet	○Quiet	OModerate	OLoud	OVery loud
				Do you like this so	und in this place?			
				OVery negative	○ Negative	$\bigcirc Moderate$	OPositive	OVery positive
				Can you see the vis	sual source of this	sound at here?		
				○Yes	ONo			
			What is the	occurrence of wind	sound in this place	e?		
			ONever	Occasionally	$\bigcirc$ Moderately	○Frequently	OAlways	
			· Pr	(trigger)				
				How loud is this so	und in this place?			

	O Very quiet	○Quiet	○Moderate	$\bigcirc$ Loud	○Very loud
	Do you like this so	und in this place?	6		
	○Very negative	○Negative	○Moderate	OPositive	OVery positive
What is the	e occurrence of wat	er sound in this pla	ace?		
ONever	Occasionally	OModerately	○ Frequently	OAlways	
	(trigger)				
	How loud is this so				
	O Very quiet	○Quiet	○Moderate	OLoud	OVery loud
	Do you like this so				
	OVery negative	ONegative	○Moderate	OPositive	OVery positive
	Can you see the vi	sual source of this	sound at here?		
	○Yes	ONo			
What is th	e occurrence of squ	are dancing sound	d in this place?		
○Never	Occasionally	○ Moderately	Frequently	○Always	
	(trigger)				
	How loud is this s	ound in this place	?		
	O Very quiet	○Quiet	○ Moderate	OLoud	○Very loud
	Do you like this so	ound in this place	?		
	OVery negative	○ Negative	○Moderate	OPositive	OVery positive
	Can you see the v	isual source of thi	s sound at here?		
	○Yes	ONo			
What is th	e occurrence of bro	adcast music sour	nd in this place?		
ONever	Occasionally	OModerately	OFrequently	OAlways	
	(trigger)				
	How loud is this s	oun <mark>d in this place</mark>	?		
	O Very quiet	○Quiet	○Moderate	OLoud	○Very loud
	Do you like this so	ound in this place	?		
	○Very negative	○ Negative	○Moderate	OPositive	OVery positive
	Can you see the v	isual source of thi	s sound at here?		
	○Yes	○No			
What is th	e occurrence of sing	ging sound in this	place?		
ONever	Occasionally	OModerately	12	○Always	
	(trigger)				
	How loud is this s	ound in this place	?		
	O Very quiet	○Quiet	OModerate	OLoud	OVery loud
	Do you like this so	ound in this place	?		
	OVery negative	○ Negative	OModerate	OPositive	OVery positive
	Can you see the v	isual source of thi	s sound at here?		and the second s
	A CONTRACTOR OF THE PARTY OF TH				

○ Never	00	O 14 - 1 1 - 1 1 - 1 - 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 - 1 1 - 1 1 -	OF	OAL									
	Occasionally	O Moderately		Always									
	(trigger)												
	How loud is this s	?											
	O Very quiet	Quiet	○ Moderate	OLoud	OVery loud								
	Do you like this so	ound in this place	?										
	OVery negative	○ Negative	○Moderate	OPositive	OVery positive								
	Can you see the visual source of this sound at here?												
	○Yes	ONo											
What is the	e occurrence of law	n mowing sound i	n this place?										
Never	Occasionally		-	OAlways									
	(trigger)	•											
ſ	How loud is this sound in this place?												
	O Very quiet	OQuiet	O Moderate	OLoud	OVery loud								
	Do you like this so	45.1		CLOUG	o very roud								
	OVery negative	12.0	○Moderate	OPositive	OVery positive								
		-		Orositive	O very positive								
	Can you see the vi		s sound at herer										
L	○Yes	ONo											
	e occurrence of con												
Never	Occasionally	O Moderately	O Frequently	O Always									
ſ	(trigger)												
	How loud is this so	ound in this place	?										
	O Very quiet	Quiet	○ Moderate	OLoud	OVery loud								
	Do you like this sound in this place?												
	OVery negative	○ Negative	○ Moderate	OPositive	OVery positive								
	Can you see the vi	sual source of this	s sound at here?										
	○Yes	ONo											
Vhat is the	occurrence of engi	ne sound in this p	lace?										
Never	Occasionally	N	○Frequently	OAlways									
3110101													
	(trigger) How loud is this so	ound in this place	,										
	HOW IOUG IS LIIIS SC	ound in this place											
		00	OM-4	O1	Overslessel								
	O Very quiet	OQuiet	○Moderate	$\bigcirc$ Loud	OVery loud								
	O Very quiet  Do you like this so	und in this place?			2. <b>*</b> 2								
	O Very quiet	und in this place?	○Moderate	OLoud OPositive	OVery loud								

What is th	e occurrence of bic	ycle riding sound i	n this place?											
ONever	Occasionally	○Moderately	OFrequently	○Always										
	(trigger)													
	How loud is this s	How loud is this sound in this place?												
	O Very quiet	Quiet	OModerate	OLoud	OVery loud									
	Do you like this so	ound in this place	?											
	OVery negative	ONegative	OModerate	OPositive	OVery positive									
	Can you see the v	isual source of thi	s sound at here?											
	○Yes	ONo												
What is th	ne occurrence of sur	rounding speech i	n this place?											
ONever		OModerately		<b>Ω</b> Δlwavs										
Ollever														
	(trigger)  How loud is this sound in this place?													
		040000000000000000000000000000000000000		0	014									
	O Very quiet		○Moderate	OLoud	OVery loud									
		ound in this place		22 <b>-</b> 2276 (1966)										
		○Negative			OVery positive									
	Can you see the visual source of this sound at here?													
	○Yes	○No												
What is th	e occurrence of pla	ying children soun	d in this place?											
ONever	Occasionally	OModerately	OFrequently	OAlways										
	(trigger)													
	How loud is this s	ound in this place	?											
	O Very quiet	Quiet	OModerate	OLoud	OVery loud									
	Do you like this so	ound in this place	?											
	OVery negative	○ Negative	OModerate	OPositive	OVery positive									
	Can you see the v	isual source of thi	s sound at here?											
	○Yes	ONo												
M(L - L ' - LL														
	e occurrence of foo													
ONever	Occasionally	OModerately	OFrequently	OAlways										
	(trigger)													
	How loud is this se	ound in this place	?											
	O Very quiet	OQuiet	OModerate	OLoud	OVery loud									
	Do you like this so	ound in this place?												
	OVery negative	ONegative	OModerate	OPositive	OVery positive									
	Can you see the vi	isual source of this	s sound at here?											

What is th	e occurrence of dia	<b>bolo</b> sound in this	place?									
ONever	Occasionally	$\bigcirc Moderately$	OFrequently	OAlways								
	(trigger)											
	How loud is this s	ound in this place	?									
	O Very quiet	Quiet	○Moderate	OLoud	OVery loud							
	Do you like this so	ound in this place?	?									
	OVery negative	○ Negative	○Moderate	OPositive	OVery positive							
	Can you see the v	isual source of thi	s sound at here?									
	○Yes	○No										
What is the occurrence of train sound in this place?												
ONever	Occasionally	○Moderately	OFrequently	OAlways								
	(trigger)											
	How loud is this sound in this place?											
	O Very quiet	Quiet	○Moderate	OLoud	○Very loud							
	Do you like this sound in this place?											
	OVery negative	○ Negative	OModerate	OPositive	OVery positive							
	Can you see the v	isual source of thi	s sound at here?									
	○Yes	○No										
What is th	e occurrence of aut	omobile sound in	this place?									
ONever	Occasionally	OModerately	OFrequently	OAlways								
	(trigger)											
	How loud is this s	ound in this place	?									
	O Very quiet	Quiet	OModerate	OLoud	OVery loud							
	Do you like this so	ound in this place	?									
	OVery negative	ONegative	○ Moderate	OPositive	OVery positive							
	Can you see the v	isual source of thi	s sound at here?									
	OYes	ONo										
What is th	e occurrence of mo	<b>torbike</b> sound in t	his place?									
ONever	Occasionally	OModerately	OFrequently	○Always								
	(trigger)											
	How loud is this s	ound in this place	?									
	O Very quiet	OQuiet	OModerate	OLoud	OVery loud							
	Do you like this so	ound in this place	?									
	OVery negative	○ Negative	OModerate	OPositive	OVery positive							
	Can you see the v	isual source of thi	s sound at here?									
	OYes	ONo										

	Section 3
	Are you satisfied with the overall sound environment in this place?
1	OVery unsatisfied
2	Ounsatisfied
3	O Neither satisfied, nor unsatisfied
4	O Satisfied
5	OVery satisfied
	What do you think of the loudness of this place?
1	OVery low
2	OLow
3	○ Moderately
4	OLoud
5	OVery loud
	Do you think this sound environment annoyed?
1 ———	O Not annoyed at all
2	OSlightly annoyed
3	O Moderately annoyed
4	OVery annoyed
5	○Extremely annoyed

Figure S1. The questionnaire and each questions' scale

**Table S1** Generalized linear model between each of the perception parameters of individual sounds and five dimensions of factors (Only when p value of factors showed significance, their corresponding model's number of observations and goodness of fit were reported).

		РО					PL					PR					VS			
		F1	F2	F3	F4	F5	F1	F2	F3	F4	F5	F1	F2	F3	F4	F5	F1	F2	F3 F4	F5
Birds		No. of	f obs =2	2034			-					No. o	f obs =	1559			No. o	f obs =	1558	
		(1/df)	Devian	ice =1.80	02							(1/df)	Deviar	nce = 0.	679		(1/df)	Devia	nce = 0.23	38
		AIC=	3.429									AIC=	2.455				AIC=	1.409		
	Coefficient			0.064	0.074	0.132						-0.123	}			0.052	0.097		0.030	-0.042
	Sig. (2-tailed)			$0.030^{*}$	0.012*	0.000**						0.000	**			0.012**	0.000	k:)k	0.013	3* 0.001**
						*						*				*	*			
Insects		No. of	f obs = 2	2034			No. o	f obs = 1	1011			No. o	f obs =	1009			No. o	f obs =	1010	
		(1/df)	Devian	1.42	29		(1/df)	Deviar	nce = 0.	926		(1/df)	Deviar	nce =1.0	)78		(1/df)	Devia	nce = 0.16	57
		AIC=	3.198				AIC=	2.767				AIC=	2.919				AIC=	1.057		
	Coefficient	0.248			0.096			-0.089	)			-0.159	0.079				0.046		0.029	-0.033
	Sig. (2-tailed)	$0.000^{*}$	*		0.000**	:		0.003	**			0.000*	** 0.014	*			0.002	k:#	0.008	3* 0.000**
		*			*							*							*	*
Dogs		No. of	f obs =2	2034			No. o	f obs =	546			No. o	f obs =	545			-			
		(1/df)	Devian	ce = 0.6	65		(1/df)	Deviar	nce = 0.	906		(1/df)	Deviar	nce =1.1	40					
nnds		AIC=	2.433				AIC=	2.751				AIC=	2.980							
ıl soı	Coefficient				-0.045				-0.090	-0.13	1		-0.207	7						
Natural sounds	Sig. (2-tailed)				0.012*				0.017	* 0.001	*		0.000	**						
Ž										*			*							

Ducks		No. of obs =2034		-	No. of obs =195		-
		(1/df) Deviance = $0.605$			(1/df) Deviance = 0.86	2	
		AIC=2.338			AIC=2.720		
	Coefficient	0.035 0.054	0.042		-0.203	0.	187
	Sig. (2-tailed)	0.038* 0.002**	0.014*		0.022*	0.0	010*
Leaves		No. of obs =2034		No. of obs =1348	No. of obs =1344		No. of obs =1328
rustling		(1/df) Deviance =1.557		(1/df) Deviance = 0.869	(1/df) Deviance = $0.77$	5	(1/df) Deviance = $0.157$
		AIC=3.283		AIC= 2.703	AIC=2.588		AIC= 0.993
	Coefficient	0.192	0.062	0.054	0.052	0.054	0.053
	Sig. (2-tailed)	0.000**	0.025*	0.026*	0.025*	0.026*	0.000**
		*					*
Wind		No. of obs =2034		-	No. of obs =1305		-
		(1/df) Deviance =1.584			(1/df) Deviance = $0.82$	4	
		AIC=3.301			AIC=2.649		
	Coefficient	0.135 -0.081				0.0	071
	Sig. (2-tailed)	0.000** 0.003**				0.0	004**
		*					
Water		No. of obs =2034		No. of obs =344	-		No. of obs $=345$
		(1/df) Deviance =1.136		(1/df) Deviance =1.041			(1/df) Deviance = $0.085$
		AIC=2.969		AIC=2.895			AIC= 0.390
	Coefficient	0.094 0.078		0.192			-0.049
	Sig. (2-tailed)	0.000** 0.001**		0.006**			0.002*
		*					*
ج Square		No. of obs =2034		No. of obs =664	No. of obs =664		No. of obs =662
Square dancing		(1/df) Deviance =1.779		(1/df) Deviance =1.276	(1/df) Deviance =1.103	3	(1/df) Deviance = $0.149$

		AIC=3.417		AIC=3.091			AIC=2.945	AIC= 0.943
	Coefficient	-0.162		-0.132			-0.263 -0.166	0.066
	Sig. (2-tailed)	0.000**		0.003**			0.000** 0.000**	0.000**
		*					* *	*
Broadcas		No. of obs $=2034$		-			No. of obs =1306	No. of obs =1243
t music		(1/df) Deviance =2.387					(1/df) Deviance = $0.947$	(1/df) Deviance = $0.215$
		AIC=3.710					AIC=2.788	AIC=1.309
	Coefficient		0.155				-0.054 -0.077	0.059
	Sig. (2-tailed)		0.000**				0.048* 0.004**	$0.000^{**}$
			*					*
Singing		No. of obs $=2034$		No. of obs $=38$	30		No. of obs =379	No. of obs $=371$
		(1/df) Deviance =1.317		(1/df) Deviance	e = 1.124		(1/df) Deviance =1.104	(1/df) Deviance = $0.132$
		AIC=3.116		AIC=2.970			AIC=2.952	AIC= 0.833
	Coefficient	-0.155 -0.111 -0.058	-0.064	-0.122	-0.103	-0.164	-0.134	0.069
	Sig. (2-tailed)	0.000** 0.000** 0.021*	0.011*	0.012*	$0.048^{*}$	$0.003^{*}$	0.015*	$0.000^{**}$
		* *				*		*
Instrume		-		-			-	-
nt	Coefficient							
	Sig. (2-tailed)							
Lawn		No. of obs =2034		No. of obs $=1$	17		-	-
mowing		(1/df) Deviance = $0.201$		(1/df) Deviance	e = 1.018			
ial s		AIC=1.239		AIC=2.906				
Artificial sounds moming	Coefficient	0.031 0.019 -0.023				-0.228		
Ar	Sig. (2-tailed)	0.002** 0.049* 0.021*				$0.028^{*}$		

Construct		No. of obs $=20$	)34		-		1	No. of obs $=528$			No. of obs =525
ion sound		(1/df) Deviance	e = 0.981				(	(1/df) Deviance = $0.55$	0		(1/df) Deviance = 0.207
		AIC=2.822					A	AIC=2.251			AIC=1.276
	Coefficient	0.090 0.058						-0.088	(	0.095	0.066
	Sig. (2-tailed)	0.000** 0.008**						0.004**	(	0.004**	0.007**
		*									
Engine		No. of obs $=20$	)34		-		1	No. of obs $=180$			-
		(1/df) Deviance = 0.534 AIC=2.215					(	(1/df) Deviance = $0.93$	6		
							A	AIC=2.805			
	Coefficient	0.035 0.038 0.044							-0.270		
	Sig. (2-tailed)	0.027* 0.017* 0.006**						0.000**			
									*		
Bicycle		No. of obs =2034 (1/df) Deviance = 0.783			No. of obs =	:548	-				-
riding					(1/df) Deviance = $0.764$						
		AIC=2.596			AIC=2.580						
	Coefficient	0.070	-0.066 -0.047		-0.07	6					
	Sig. (2-tailed)	$0.000^{**}$	0.001** 0.016*		0.03	80*					
		*									
Surround		No. of obs $=2034$			No. of obs =1943			No. of obs $=1946$			-
ing		(1/df) Deviance =1.441			(1/df) Deviance = $0.789$		(	(1/df) Deviance = $0.689$			
speech		AIC=3.206			AIC=2.604		A	AIC=2.469			
	Coefficient	0.210	-0.151 0.071		0.088	-0.096	-	0.150 -0.086			
	Sig. (2-tailed)	$0.000^{**}$	0.000** 0.007*		0.000**	$0.000^{**}$	C	0.000** 0.000**			
		*	*		*	*	*	*			

Playing		No. of obs $=20$	034		No. of obs $=1$	560		No. of obs =	1561	No. of obs $=1550$	
children								(1/df) Deviance = 0.914 AIC=2.752		(1/df) Deviance = $0.07$	1
										AIC= 0.208	
	Coefficient	0.273 0.068	-0.255		0.099	-0.095		-0.213	-0.102 -0.090		-0.013
	Sig. (2-tailed)	0.000** 0.019*	$0.000^{**}$		0.000**	$0.000^{**}$		0.000**	0.000** 0.000**		0.041*
		*	*		*	*		*	* *		
Footsteps		No. of obs =2034			No. of obs =1602			No. of obs =1603		No. of obs =1591	
		(1/df) Deviance =1.738			(1/df) Deviance = $0.827$			(1/df) Deviance = $0.633$		(1/df) Deviance = $0.08$	66
		AIC=3.394			AIC=2.652			AIC=2.385		AIC= 0.397	
	Coefficient	0.231	-0.065			-0.051	-0.066	-0.148 -0.071	1	0.020	
	Sig. (2-tailed)	$0.000^{**}$	$0.026^{*}$			$0.027^{*}$	$0.003^{*}$	0.000** 0.000	**	$0.010^{*}$	
		*					*	* *			
Diabolo		No. of obs =2034			-			-		-	
		(1/df) Deviance = $0.287$									
		AIC=1.594									
	Coefficient	-0.053	0.041	0.040							
	Sig. (2-tailed)	$0.000^{**}$	$0.000^{**}$	0.001**							
		*	*								
Train		No. of obs =2034 (1/df) Deviance = 0.456			-			No. of obs =	177	-	
								(1/df) Deviar	nce = 0.627		
•		AIC=2.057						AIC=2.404			
	Coefficient	0.073 0.073	-0.054					-0.159	9		
	Sig. (2-tailed)	0.000** 0.000**	0.000**					0.008	**		
		* *	*								

Automob		No. of obs =2034		No. of obs =823	No. of obs =822	No. of obs =802
ile		(1/df) Deviance =2.056		(1/df) Deviance =1.051	(1/df) Deviance = $0.923$	(1/df) Deviance = $0.166$
		AIC=3.561		AIC=2.895	AIC=2.765	AIC=1.051
	Coefficient	-0.067 0.141 -0.146	-0.149	-0.121 0.085	-0.138 -0.174	0.043
	Sig. (2-tailed)	0.035* 0.000** 0.000**	0.000**	0.001** 0.013*	0.000** 0.000**	0.005**
		* *	*		* *	
Motorbik		No. of obs =2034		No. of obs =269	No. of obs =268	-
e		(1/df) Deviance = $0.526$		(1/df) Deviance = 0.999	(1/df) Deviance = $0.820$	
		AIC=2.199		AIC=2.859	AIC=2.661	
	Coefficient	-0.071 -0.056 -0.049 -0.035	-0.068	-0.167 -0.253	-0.125	
	Sig. (2-tailed)	0.000** 0.000** 0.002** 0.027*	0.000**	0.006** 0.000**	0.019*	
		* *	*	*		

Notes: F1: Age and familiarity of site, F2: Educational and Economic condition, F3: Companion and type of recreational use, F4: Gender, F5: Length of Stay. Significant differences are marked with \*(p < 0.05), \*\*(p < 0.01) and \*\*\*(p < 0.001).