

Online Supplement to:

A Spatial Rank-Ordered Probit Model with an Application to Travel Mode Choice

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Table S1: Pseudo-Elasticity Effects for ROP Model (ignoring spatial lag and drift effects)

Variable	Base	Treatment	Public Transit	Private vehicle	Bicycle	HD private RH	HD pooled RH	AV private RH	AV pooled RH
<i>Sociodemographic Effects</i>									
Gender	Male	Female	-9.84	8.75	2.66	-20.91	-12.74	-25.44	-22.00
Age	Less than 50	Greater than 50	-16.49	11.70	-11.93	-24.60	-20.93	-15.55	-15.09
License possession	No	Yes	-20.54	15.07	-16.15	-31.21	-24.48	-22.87	-19.78
Completed graduation	No	Yes	14.84	2.72	-30.68	7.28	5.08	5.35	16.08
Employed	No	Yes	-2.59	3.95	-1.46	2.14	-4.03	4.92	-5.30
Household vehicles	1 or less	More than 1	-8.35	7.13	-6.89	-14.34	-8.54	-11.23	-6.16
Household size	Less than 3	3 or more	-5.53	6.58	-5.26	-10.77	-8.92	-7.04	-8.91
Annual income	< \$100,000	> \$100,000	-8.97	4.86	-5.48	5.04	-17.52	5.43	-20.66
<i>Built-Environment Effects</i>									
Population density	20% increase		1.37	-0.02	3.11	-3.72	7.62	-1.27	0.76
Employment density	20% increase		2.30	0.20	0.45	-8.45	5.23	-12.18	12.02
<i>Trip Level Attributes</i>									
Trip purpose	Eat-out	Shopping	-10.87	11.90	-5.19	-19.30	-13.89	-10.71	-10.31
Trip purpose	Eat-out	Airport-access	-15.28	9.95	-7.20	1.51	-16.46	3.30	-14.83
Trip purpose	Eat-out	Social	-9.40	10.63	-24.29	-14.90	-12.09	3.37	3.34
Public Transit Travel Time	20% increase		-5.10	0.11	1.33	0.36	3.42	0.22	2.22
Private vehicle Travel Time	20% increase		2.68	-0.19	1.50	3.09	-1.23	-0.21	1.77
Bicycle Travel Time	20% increase		1.51	0.39	-7.42	0.55	1.85	0.79	1.54
HD private RH Travel Time	20% increase		1.26	0.53	0.61	-6.89	2.29	2.17	2.33
HD pooled RH Travel Time	20% increase		0.83	0.22	1.68	2.61	-5.70	0.14	1.78
AV private RH Travel Time	20% increase		1.27	0.20	1.49	2.09	2.38	-5.52	1.60
AV pooled RH Travel Time	20% increase		0.98	0.23	0.86	1.46	2.35	1.08	-7.64
Public Transit Travel Cost	20% increase		-10.72	0.36	1.94	0.93	1.51	0.06	1.97
Private vehicle Travel Cost	20% increase		2.30	-0.29	2.39	1.02	1.63	0.70	1.32
HD private RH Travel Cost	20% increase		1.30	0.13	1.19	-10.86	1.97	1.53	2.32
HD pooled RH Travel Cost	20% increase		0.79	0.10	0.07	2.08	-12.57	3.03	2.48
AV private RH Travel Cost	20% increase		1.85	0.08	0.55	3.13	2.62	-10.21	1.93
AV pooled RH Travel Cost	20% increase		0.79	0.11	0.32	2.08	3.15	1.99	-18.65