To: Prof. Liming Wang

From: Kihong Kim

Date: Nov. 14, 2014

Re: trip destination choice model estimation by trip purpose

**# Home-based work trips**

Coefficients :

Estimate Std. Error t-value Pr(>|t|)

RetEmp 3.9519e-04 4.6304e-05 8.5347 < 2.2e-16 \*\*\*

SvcEmp 2.4440e-04 1.4527e-05 16.8242 < 2.2e-16 \*\*\*

FinEmp 6.3834e-04 5.4992e-05 11.6077 < 2.2e-16 \*\*\*

GvtEmp 1.9822e-04 5.9759e-05 3.3171 0.0009096 \*\*\*

ParkAcres 8.4955e-04 1.1659e-04 7.2869 3.173e-13 \*\*\*

tdist -1.9454e-01 1.1668e-02 -16.6730 < 2.2e-16 \*\*\*

I(age \* tdist) -4.3108e-04 1.8920e-04 -2.2784 0.0227003 \*

I(female \* tdist) -3.4149e-02 5.3374e-03 -6.3981 1.573e-10 \*\*\*

I(hinc1 \* tdist) -2.5811e-02 1.2848e-02 -2.0089 0.0445456 \*

I(drivealone \* tdist) 6.7940e-02 7.7388e-03 8.7791 < 2.2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Log-Likelihood: -10369

**# Home-based shopping trips**

Coefficients :

Estimate Std. Error t-value Pr(>|t|)

RetEmp 1.3383e-03 8.3156e-05 16.0943 < 2.2e-16 \*\*\*

SvcEmp -7.8830e-05 4.2873e-05 -1.8387 0.0659598 .

FinEmp -5.1168e-04 1.6762e-04 -3.0525 0.0022693 \*\*

GvtEmp -4.5485e-04 2.9588e-04 -1.5373 0.1242194

ParkAcres 1.5844e-03 2.6759e-04 5.9211 3.197e-09 \*\*\*

tdist -4.3545e-01 2.3596e-02 -18.4540 < 2.2e-16 \*\*\*

I(age \* tdist) -1.3848e-03 4.3498e-04 -3.1835 0.0014549 \*\*

I(female \* tdist) 2.0994e-02 1.6395e-02 1.2805 0.2003647

I(hinc1 \* tdist) -6.2605e-02 3.0623e-02 -2.0444 0.0409135 \*

I(drivealone \* tdist) 7.1785e-02 2.0271e-02 3.5412 0.0003983 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Log-Likelihood: -3081.3

**# Home-based recreation trips**

Coefficients :

Estimate Std. Error t-value Pr(>|t|)

RetEmp 6.1486e-04 8.9935e-05 6.8368 8.100e-12 \*\*\*

SvcEmp 1.4494e-04 3.3418e-05 4.3372 1.443e-05 \*\*\*

FinEmp -1.4029e-04 1.4371e-04 -0.9761 0.32900

GvtEmp -8.5620e-04 3.3266e-04 -2.5738 0.01006 \*

ParkAcres 1.8709e-03 1.7473e-04 10.7073 < 2.2e-16 \*\*\*

tdist -3.9900e-01 1.7382e-02 -22.9554 < 2.2e-16 \*\*\*

I(age \* tdist) -1.2141e-04 3.6448e-04 -0.3331 0.73905

I(female \* tdist) -7.3664e-02 1.5020e-02 -4.9044 9.373e-07 \*\*\*

I(hinc1 \* tdist) 4.4575e-02 2.8016e-02 1.5911 0.11159

I(drivealone \* tdist) 8.7947e-02 1.7402e-02 5.0539 4.329e-07 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Log-Likelihood: -2916.7

**# Home-based other trips (excluding school activities)**

Coefficients :

Estimate Std. Error t-value Pr(>|t|)

RetEmp 5.1396e-04 4.2090e-05 12.2110 < 2.2e-16 \*\*\*

SvcEmp 1.5532e-04 1.3168e-05 11.7958 < 2.2e-16 \*\*\*

FinEmp -1.1188e-04 6.3058e-05 -1.7743 0.0760185 .

GvtEmp 1.4517e-04 6.6948e-05 2.1684 0.0301307 \*

ParkAcres 1.2921e-03 1.1252e-04 11.4839 < 2.2e-16 \*\*\*

tdist -3.8594e-01 8.9200e-03 -43.2672 < 2.2e-16 \*\*\*

I(age \* tdist) 5.8296e-04 1.5895e-04 3.6676 0.0002448 \*\*\*

I(female \* tdist) -3.4145e-02 6.1165e-03 -5.5825 2.372e-08 \*\*\*

I(hinc1 \* tdist) -7.5423e-03 1.1935e-02 -0.6319 0.5274397

I(drivealone \* tdist) 5.4470e-02 7.5056e-03 7.2573 3.948e-13 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Log-Likelihood: -14203