**Program list for**

Is Technological Change Biased Towards the Unskilled in Services? An Empirical Investigation

Review of Economic Dynamics

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All programs and data saved in two subfolders:

1. \Matlab
2. \Stata

Below I list the programs that generate each figure or table, together with additional relevant information.

The main estimation procedures involve 5 steps and follow the methodology detailed in the online appendix.

For questions please do not hesitate to contact me at [ariellr@virginia.edu](mailto:ariellr@virginia.edu).

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\Matlab

* Figure 4: nls\_step3.m
* Figure 5: nls\_step3.m
* Table 2: nls\_step3.m and nls\_step4.m.   
  Need to run nls\_step1.m and nls\_step2.m beforehand.   
  Includes all step1-step4 programs and subroutines, and nls\_bootstrap.m, and nls\_bootstrap\_objective\_lsqnonlin.m.  
  Uses smm3\_XXXX.m programs.  
  Uses data\_for\_estimation.txt and data\_for\_estimation\_relprice.txt.

In nls\_step3.mat (computed by nls\_step3.m):

σs = es=exp(estimates(1)) ;

σg = eg=exp(estimates(2)) ;

β0,s = beta0s=estimates(3) ;

β1,s = beta1s=estimates(4) ;

β0,g = beta0g=estimates(5) ;

β1,g = beta1g=estimates(6) ;

a0 = a0=estimates(7) ;

a1 = a1=estimates(8) ;

φ = fi=exp(estimates(9)) ;

In nls\_step4.mat (computed by nls\_step4.m):

ρs = rs=estimates(1) ;

ρg = rg=estimates(2) ;

ρa = ra=estimates(3) ;

vs = sds=estimates(4) ;

vg = sdg=estimates(5) ;

va = sda=estimates(6) ;

vh = sdh=estimates(7) ;

In nls\_bootstrap.mat (computed by nls\_bootstrap.m):

σ(σs) = es\_std=std(exp(estimates(:,1))) ;

σ(σg) = eg\_std=std(exp(estimates(:,2))) ;

σ(β0,s) = beta0s\_std=std(estimates(:,3)) ;

σ(β1,s) = beta1s\_std=std(estimates(:,4)) ;

σ(β0,g) = beta0g\_std=std(estimates(:,5)) ;

σ(β1,g) = beta1g\_std=std(estimates(:,6)) ;

σ(a0) = a0\_std=std(estimates(:,7)) ;

σ(a1) = a1\_std=std(estimates(:,8)) ;

σ(φ) = fi\_std=std(exp(estimates(:,9))) ;

* Table 4: nls\_alphaZ\_step3.m and nls\_alphaZ\_step4.m.   
  Need to run nls\_alphaZ\_step1.m and nls\_alphaZ\_step2.m beforehand.  
  Includes step1-step4 programs and subroutines, and nls\_alphaZ\_bootstrap.m, and nls\_alphaZ\_bootstrap\_objective\_lsqnonlin.m.  
  Uses smm3\_XXXX.m programs.  
  Uses data\_for\_estimation.txt and data\_for\_estimation\_relprice.txt

Recovering the estimates and their standard errors uses similar outputs as for Table 2.

\Stata

* Figure 1: Figure1\_colprem\_colsupply\_RED.do
* Figure 2: Figure\_2\_employment\_shares\_RED.do
* Figure 3: Figure\_3\_it\_by\_ind\_RED.do
* Figure 6: occupation\_task\_index2\_RED.do
* Table 1: none.
* Table 3: Table\_3\_data\_for\_RED\_revision.do
* Table 5: none.
* Table 6: occupation\_task\_index2\_RED.do
* Table 7: occupation\_task\_index2\_RED.do