The Creativity Premium: Exploring the Link Between Childhood Creativity and Life Outcomes

ReadMe for Replication Package

David Gill *
Victoria Prowse †

January 22nd, 2024

1 Overview

This replication package includes: a ReadMe file (this document); instructions about obtaining the National Child Development Study (NCDS) data; the UK Retail Price Index (RPI) data; and Stata files to replicate the results in the paper. This ReadMe file proceeds as follows. Section 2 describes how to access the datasets. Section 3 explains how to use the Stata code to replicate the results in the paper. Note that all folder and file locations referenced in this document are relative to the root of the replication package.

2 Data sources

2.1 National Child Development Study (NCDS) datasets

We use data from the National Child Development Study (NCDS), a well-known large-scale longitudinal birth-cohort study from the United Kingdom. The NCDS data terms and conditions preclude us from sharing the data directly. However, the data is available at no charge to any researcher upon agreeing to the NCDS data terms and conditions. Thus, any researcher can replicate our results using our code together with the data freely available from the NCDS.

At the time of writing, the NCDS data are available through the UK Data Service. For instructions about access, visit the UK Data Service page for study SN20000032:

- https://beta.ukdataservice.ac.uk/datacatalogue/series/series?id=2000032

*Purdue University; dgill.econ@gmail.com
†Purdue University; vprowse@purdue.edu

UK Data Service distributes the NCDS data via the UK Data Archive (UKDA). The NCDS data available through the UKDA are organized into several folders, each containing data from one or more study waves. Upon obtaining access to the NCDS data, the replicator should save the following NCDS data folders in the `Data/NCDS` folder in the replication package:

- `UKDA-5565-stata11`
- `UKDA-5566-stata9`
- `UKDA-5567-stata11_se`
- `UKDA-5578-stata9_se`
- `UKDA-5579-stata9`
- `UKDA-6137-stata9_se`
- `UKDA-7669-stata11`

2.2 UK Retail Price Index (RPI) data

UK RPI data are provided in the Excel format file: `Data/RPI/CDKO-110220.xls`.

3 Replication of the results

3.1 Software, hardware and run times

The Stata code was last run using Stata/SE 18.0. The replication files were most recently run on a MacBook Air (M1, 2020) with 16GB RAM running MacOS Monterey version 12.4. The Stata code took approximately 10 minutes to run.

3.2 Description of the code and instructions for usage

- The Stata file `index.do` in the root of the replication package executes all commands necessary to replicate the results in the paper. The folder `StataSubCode` contains further Stata `.do` and `.ado` files. The Stata file `index.do` runs the files in `StataSubCode`.

3.3 Instructions for usage

- The following steps should be executed in the order listed.
    1. Edit `index.do` to set the current directory (line 8) to the local location of the replication package.
    2. Run `index.do` in Stata. This will:
        - Install the required Stata packages (`winsor` and `rif`), if they are not already installed locally.
        - Organize the original NCDS datasets and the RPI data, saving Stata-format datasets in the folder `scratchdata` for later analysis.
        - Perform data analyses and save the results in `.tex` files in the folder `results/tables`.
        - Clean up by erasing the datasets in the folder `scratchdata`.

3.4 List of tables

Tables 1 and 2 in this section show: (i) the name of each file that is produced by following the instruction in Section 3.3; and (ii) the corresponding table number or location where the file content appears in the paper. All table numbers and locations in the paper are from the manuscript dated December 20th, 2023 (available at https://vprowse.org). Table numbers that a perfixed by "A." (e.g., Table A.1) refer to tables in the web appendix. The tables with $p-$values do not appear in the paper but some of the $p-$values appear in text discussing the corresponding table with standard errors.

Filename	Table or location in paper
AbSelfRating_epsd.tex	Table A.21
AbSelfRating_icog.tex	Table A.9
AbSelfRating_nocog.tex	Table A.27
AbSelfRating_notee.tex	Table A.15
AbSelfRating_pref.tex	Table 1
AbSelfRating4dp_nocog.tex	Table A.27 with 4 decimal places
AbSelfRating4dp_pref.tex	Table 1 with 4 decimal places
corr.tex	Paragraph 3 of Section 2.5
CorrDemogControls1.tex	Table A.36 (Part 1/5)
CorrDemogControls2.tex	Table A.36 (Part 2/5)
CorrDemogControls3.tex	Table A.36 (Part 3/5)
CorrDemogControls4.tex	Table A.36 (Part 4/5)
CorrDemogControls5.tex	Table A.36 (Part 5/5)
CorrSkillsOcc.tex	Table A.1
EmpiricalDist.tex	Table A.35
ExamEntry.tex	Footnote 21
personality.tex	Paragraph 2 of Web Appendix IV.8
R_OLS_Binary.tex	Table A.33
R_OLS_Educ_epsd.tex	Table A.26
R_OLS_Educ_epsdp.tex	Table A.26 (p-values)
R_OLS_Educ_icog.tex	Table A.14
R_OLS_Educ_icogp.tex	Table A.14 (p-values)
R_OLS_Educ_nocog.tex	Table A.32
R_OLS_Educ_nocogp.tex	Table A.32 (p-values)
R_OLS_Educ_notee.tex	Table A.20
R_OLS_Educ_noteep.tex	Table A.20 (p-values)
R_OLS_Educ_pref.tex	Table 6
R_OLS_Educ_prefp.tex	Table 6 (p-values)
R_OLS_EducR_pref.tex	Table A.34
R_OLS_EducR_prefp.tex	Table A.34 (p-values)
R_OLS_ExamPassGAPass16_pref.tex	Table A.6
R_OLS_ExamPassGAPass16_prefp.tex	Table A.6 (p-values)
R_OLS_ExamPassGAPass18_pref.tex	Table A.7
R_OLS_ExamPassGAPass18_prefp.tex	Table A.7 (p-values)

Table 1: Mapping from files produced by the Stata code to tables or locations in the paper (Part 1 of 2)

Filename	Table or location in paper
R_OLS_occ_CondEduc.tex	Table A.3
R_OLS_occ_CondEducp.tex	Table A.3 (p-values)
R_OLS_occ_epsd.tex	Table A.25
R_OLS_occ_epsdp.tex	Table A.25 (p-values)
R_OLS_occ_icog.tex	Table A.13
R_OLS_occ_icogp.tex	Table A.13 (p-values)
R_OLS_occ_nocog.tex	Table A.31
R_OLS_occ_nocogp.tex	Table A.31 (p-values)
R_OLS_occ_notee.tex	Table A.19
R_OLS_occ_noteep.tex	Table A.19 (p-values)
R_OLS_occ_pref.tex	Table 5
R_OLS_occ_prefp.tex	Table 5 (p-values)
R_OLS_pooled_CondEduc.tex	Table A.2
R_OLS_pooled_CondEducp.tex	Table A.2 (p-values)
R_OLS_pooled_CondOcc_EmpOnly.tex	Table A.4
R_OLS_pooled_epsd.tex	Table A.24
R_OLS_pooled_epsdp.tex	Table A.24 (p-values)
R_OLS_pooled_icog.tex	Table A.12
R_OLS_pooled_icogp.tex	Table A.12 (p-values)
R_OLS_pooled_nocog.tex	Table A.30
R_OLS_pooled_nocogp.tex	Table A.30 (p-values)
R_OLS_pooled_notee.tex	Table A.18
R_OLS_pooled_noteep.tex	Table A.18 (p-values)
R_OLS_pooled_pref.tex	Table 4
R_OLS_pooled_prefp.tex	Table 4
R_OLS_ReqJobSk_epsd.tex	Table A.23
R_OLS_ReqJobSk_epsdp.tex	Table A.23 (p-values)
R_OLS_ReqJobSk_icog.tex	Table A.11
R_OLS_ReqJobSk_icogp.tex	Table A.11 (p-values)
R_OLS_ReqJobSk_nocog.tex	Table A.29
R_OLS_ReqJobSk_nocogp.tex	Table A.29 (p-values)
R_OLS_ReqJobSk_notee.tex	Table A.17
R_OLS_ReqJobSk_noteep.tex	Table A.17 (p-values)
R_OLS_ReqJobSk_pref.tex	Table 3
R_OLS_ReqJobSk_prefp.tex	Table 3 (p-values)
R_OLS_SECreatOcc.tex	Table A.5
R_OLS_SECreatOccp.tex	Table A.5 (p-values)
Skills_epsd.tex	Table A.22
Skills_icog.tex	Table A.10
Skills_nocog.tex	Table A.28
Skills_notee.tex	Table A.16
Skills_pref.tex	Table 2
SkillsE_pref.tex	Table A.8
Tests.tex	Paragraph 2 of Section 2.5

Table 2: Mapping from files produced by the Stata code to tables or locations in the paper (Part 2 of 2)