This folder contains all the data and program files required to reproduce the results in the main body of the manuscript, "Death of the Salesman, or the Salesforce?"

<u>Important note</u>: GitHub does not allow us to upload large data files. Use <u>this dropbox link</u> to download the data, This may turn out to not be stable. If you cannot download the data this way, e-mail us at <u>pazoulay@mit.edu</u>.

**xtqmlp** is a modification of the built-in Stata command, **xtpoisson**, **fe** that allows the clustering of the standard errors at a coarser level than the panel id variable (in the case of our manuscript, we cluster the errors around each star scientist, uniquely identified by the variable setnb). The reader should place xtqmlp.ado in the personal subfolder within his/her own ado folder.<sup>1</sup>

Our replication archive contains six folders named data, do-files, estimates, figures, raw\_data, and tables.

Let us begin in the dataset contained in the data folder. The Stata file afterlife\_dd\_dataset. dta contains the data at the article-year level, which can be used to replicate all of the results in the paper that leverage our difference-in-differences research design (Tables 3, 4, 5, 6, and 9; Figure 1, 3, and 4). It is created by a series of do files that combine publicly available data (e.g., PubMed), commercial data (e.g., Web of Science), and confidential data (specifically, the AAMC Faculty Roster) to build the final analytic sample. A complete data dictionary is included at the end of this document.

Note that we cannot make publicly available all the raw and intermediate files that combined allow us to construct **afterlife\_dd\_dataset.dta**, for two reasons. First, we assembled the superstar sample (N=13,426) from original CVs guaranteeing anonymity to our respondents. Second, we have licensed the Faculty Roster of the Association of American Medical Colleges, the main industry group for US Medical Schools under strict conditions of confidentiality. The public release dataset uses the AAMC data only in very aggregate form. Any researcher wishing to replicate our results from the ground up, however, should contact Dr. Hershel Alexander, Director of Data Operations and Services (e-mail: halexander@aamc.org). The licensing of AAMC data to other researchers, for the purposes of replication or original research, is entirely at the discretion of AAMC. However, researchers interested in examining our code should contact us.

The file **afterlife\_dead\_stars\_memories.dta** is necessary to produce the descriptive statistics in Table 1. The file **afterlife\_mediation\_analysis.dta** contains all the data at the article level to reproduce Tables 7 and 8, as well as Figure 5.

<sup>&</sup>lt;sup>1</sup> Our do-files make use of a number of packages available on the statistical software component archive: Ben Jann's coefplot to generate figures from estimated coefficients, as well as his estout series of packages (which also include esttab, estpost, and estadd) to prepare table output; Austin Nichols' byhist package to produce interlaced histograms; Gary Longton and Nicholas Cox's distinct to report the number of distinct observations.

Finally, the files afterlife\_prdct\_cites\_invst\_level.dta and afterlife\_prdct\_cites\_pmid\_level.dta contain the predicted posthumous citations at the scientist and the investigator level. These files can be generated by running the do file cmpt\_inxss\_cites.do. This is not strictly required to replicate the results however, since the file afterlife\_mediation\_analysis.dta contains the covariates corresponding to these predictions already. We chose to make these available so that interested readers could inspect (and possibly improve upon) the penalized Poisson procedure that generates the predictions.

In addition to the data, this folder contains the following subfolders: (1) do-files, which contains a set of Stata do-files needed to replicate every table or figure<sup>2</sup> in the paper (one do-file per table or figure); (2) estimates, which contains, for each statistical model, the stored estimates in a .ster file (convenient because the fe Poisson models sometimes take a long time to run); (3) figures, which contains the Stata graphs generated by some of the do-files; and (4) tables, which contains the tables generated by the do-files.

Finally, the subfolder raw\_data contains three excel spreadsheets. dead\_stars.xls contains the information presented in Appendix F, i.e., the comprehensive list of 720 deceased superstars. dead\_stars\_memrlzd.xlsx contains the comprehensive set<sup>3</sup> of memory events for the 720 prematurely deceased superstars. academic\_recognition\_events.xls contains the set of 5,850 academic recognition events for the deceased as well as the 8,326 control stars.

Note that every do-file references a working directory. Interested researchers should of course substitute the directory path that works on their machine (by providing it as a value for the global macro {F10} in their profile.ado file). We have made use of forward slashes in the directory structure, which should make these files portable to Windows, MacOS, and Linux operating systems.

<sup>&</sup>lt;sup>2</sup> An exception is Figure 1A. Replication here necessitates access to the entire list of 14,326 superstars. We cannot post this list publicly. However, interested researchers should contact us if they would like to replicate this particular figure.

<sup>&</sup>lt;sup>3</sup> By comprehensive we mean academic as well as non-academic memories, e.g. Wikipedia pages, New York Times obits, etc.

# **Data Dictionary**

## afterlife\_dd\_dataset.dta [unique key is srce\_pmid/death\_year/setnb/year, 13,087,941 article-years]

idArticle identifier (srce_pmid/death_year/setnb)xidStrata identifiersrce_pmidSource article pmidsrce_pubyearSource article year of publicationsyearFocal calendar yearyrFocal calendar year, slightly coarsened (the years 1950-1955 are collapsed)setnbStar identifierstar_yobStar's year of birthstar_yodStar's year of deathfemaleStar's genderdegStar's degreedeg_yearStar's highest degree yearaadBirth age at death/counterfactual deathase_at_deathCareer age at death/counterfactual deathnsStar's cumulative nb. of publications in year of deathstk_inv_pubsStar's cumulative nb. of citations in year of deathstk_inv_nihStar's cumulative nb. of trainees in year of deathstk_traineesStar's cumulative nb. of trainees in year of deathstk_nupsitd_collabsStar's cumulative nb. of coauthors (excluding trainees) in year of deathfrac1_slf_yprmt_setnbStar's cumulative nb. of coauthors (excluding trainees) in year of deathindex_amountStar's cumulative nb. of trainees, 20 ventilesindex_stk_traineesStar's cumulative nb. of trainees, 20 ventilesindex_stk_traineesStar's cumulative nb. of coauthors (excluding trainees), 20 ventilesindex_stk_collabsStar's sull-attive nb. of coauthors (excluding trainees), 20 ventilesindex_stk_collabsStar's sull-attive nb. of coauthors (excluding trainees), 20 ventilesindex_stk_collabsStar's sull-attive nb. of coauthors (exc	Variable Name	Definition
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journal\_name Source article journal

jif Source article journal impact factor

nbauthors Source article nb. of authors

treat Article associated with deceased star death\_year Year of death (or counterfactual death)

after\_death After death for treated articles

after\_death\_cmn After death for treated and control articles

artcl\_age Article age (in years) in focal year

nb\_cites Nb. of citations in focal year (excluding self-citations)

nb\_cites\_yfield Nb. of citations in same subfield as the source in focal year (excluding self-citations)
nb\_cites\_nfield Nb. of citations not in same subfield as the source in focal year (excluding self-citations)

nb\_cites\_ycolocNb. of citations from same institution in focal year (excluding self-citations)nb\_cites\_ncolocNb. of citations not from same institution in focal year (excluding self-citations)nb\_cites\_ncmmrlzrNb. of citations in focal year, excluding those from coauthors and memorializers

nb\_cites\_ncmmrlzr5 Nb. of citations in focal year, excluding those from coauthors and memorializers and 5 years post-death window

rltv\_rank Source article citation rank within the star's corpus at time of death

yrltv\_btm10pct Source article is in the bottom 10% of citations within the star's corpus at time of death yrltv\_md125\_75pct Source article is in the middle quartiles of citations within the star's corpus at time of death

yrltv\_top10pct Source article is in the top 10% of citations within the star's corpus at time of death nrltv\_top5pct Source article is in the top 5% of cites in the *PubMed/WoS* universe at time of death nrltv\_top1pct Source article is in the top 1% of cites in the *PubMed/WoS* universe at time of death

### afterlife\_dd\_dataset.dta [unique key is setnb, 720 deceased scientists]

Variable Name	Definition
setnb	Star identifier
itrmrl_nih	Star is an NIH intramural scientist
total_mem	Total number of memory events for the deceased star
academic_mem	Total number of academic memory events for the deceased star (whether or not PubMed indexed)
nyt_obit	New York Times wrote an obit for the star
wikipedia_page	Star has a Wikipedia page
named_award	Star has an eponymous award
festschrift	A festschrift was organized for the star
xpctd_lasso_all_ntrt_cites	Cumulative predicted posthumous citations for the star (using penalized Poisson procedure)
inxss_lasso_all_ntrt_cites	Cumulative "excess" posthumous citations for the star (using penalized Poisson procedure)

### afterlife\_mediation\_analysis.dta [unique key is id=pmid/death\_year/setnb, 481,746 articles]

Variable Name	Definition
id	Article identifier
xid	Article strata
pmid	PubMed identifier for article (can be repeated because an article can serve as control in distinct death years)
setnb	Star identifier
star_yob	Star's year of birth
star_yod	Star's year of death
<pre>srce_pubyear</pre>	Source article year of publications
treat	Article associated with deceased (treated) star
death_year	Year of death (or counterfactual death)
cod	Cause of death
deg	Star's degree
deg_year	Star's highest degree year
female	Star's gender

stk\_inv\_pubsStar's cumulative nb. of publications in year of deathstk\_inv\_citesStar's cumulative nb. of citations in year of deathstk\_inv\_nihStar's cumulative NIH funding in year of death

itrmrl\_nih Star is an NIH intramural scientist

log\_cites Star's cumulative nb. of citations in year of death (logged) log\_pubs Star's cumulative nb. of publications in year of death (logged)

log\_funding Star's cumulative NIH funding in year of death (logged); zero if no funding.

no\_funding Indicator variable if the star has no NIH funding and is not an intramural NIH scientist

Star is a member of the National Academy of Sciences in year of death/counterfactual death

nb\_traineesStar's cumulative nb. of trainees in year of deathnb\_coauthorsStar's cumulative nb. of coauthors in year of deathln\_nb\_traineesStar's cumulative nb. of trainees in year of death (logged)ln\_nb\_coauthorsStar's cumulative nb. of coauthors in year of death (logged)

ln\_nb\_coauthors\_nt Star's cumulative nb. of coauthors—excluding trainees—in year of death (logged)

zero\_trainees Star does not have any recorded trainee

zero\_collabs Star does not have any recorded coauthor (possible because only AAMC coauthors are counted)

zero\_collabs\_nt Star does not have any recorded non-trainee coauthor (possible because only AAMC coauthors are counted)

acd\_mem\_ttl Total number of recognition events

acd\_mem\_vdplus Total number of recognition events, post-death/counterfactual death

acd\_mem\_vdwthn5 Total number of recognition events, within a window of five years after death/counterfactual death

sudden\_deathStar death was suddenantcpt\_deathStar death was anticipated

nknwn\_death Star's cause of death is unknown

frac1\_slf\_yprmt\_setnb Star's fraction of unrelated self-citations as a % of all citations (self-promotion index), at time of death

index\_slf\_yprmtr1\_setnb
Star's self-promotion index, 20 ventiles

top\_prmtr1\_setnb Star has a self-promotion index above the median xpctd\_lasso\_all\_ntrt\_cites Article predicted posthumous citations for the star Article "excess" posthumous citations for the star

xpctd\_lasso\_ncmmrlzr\_ntrt\_cites Article predicted posthumous citations for the star, excluding those from coauthors and memorializers inxss\_lasso\_ncmmrlzr\_ntrt\_cites Article "excess" posthumous citations for the star, excluding those from coauthors and memorializers

xpctd\_lasso\_ncmmrlzr5\_ntrt\_cites Article predicted posthumous citations for the star, excluding both inxss\_lasso\_ncmmrlzr5\_ntrt\_cites Article "excess" posthumous citations for the star, excluding both

## afterlife\_prdct\_cites\_pmid\_level.dta [unique key is id=pmid/death\_year/setnb, 481,746 articles]

Variable Name	Definition
id	Article identifier
pmid	PubMed identifier for article (can be repeated because an article can serve as control in distinct death years)
setnb	Star identifier
death_year	Year of death (or counterfactual death)
treat	Article associated with deceased (treated) star
death_year	Year of death (or counterfactual death)
nb_cites_all	Article actual posthumous citations for the star
xpctd_lasso_all_ntrt_cites	Article predicted posthumous citations for the star
inxss_lasso_all_ntrt_cites	Article "excess" posthumous citations for the star
nb_cites_nwndw5	Article actual posthumous citations for the star, excluding five years post-death window
xpctd_lasso_nwndw5_ntrt_cites	Article predicted posthumous citations for the star, excluding five years post-death window
inxss_lasso_nwndw5_ntrt_cites	Article "excess" posthumous citations for the star, excluding five years post-death window
nb_cites_ncmmrlzr	Article actual posthumous citations for the star, excluding those from coauthors and memorializers
xpctd_lasso_ncmmrlzr_ntrt_cites	Article predicted posthumous citations for the star, excluding those from coauthors and memorializers
inxss_lasso_ncmmrlzr_ntrt_cites	Article "excess" posthumous citations for the star, excluding those from coauthors and memorializers
nb_cites_ncmmrlzr5	Article actual posthumous citations for the star, excluding both
<pre>xpctd_lasso_ncmmrlzr5_ntrt_cites</pre>	Article predicted posthumous citations for the star, excluding both
inxss_lasso_ncmmrlzr5_ntrt_cites	Article "excess" posthumous citations for the star, excluding both

# afterlife\_prdct\_cites\_invst\_level.dta [unique key is setnb, 720 deceased scientists]

Variable Name	Definition
setnb	Star identifier
death_year	Year of death (or counterfactual death)
nb_cites_all	Cumulative actual posthumous citations for the star
xpctd_lasso_all_ntrt_cites	Cumulative predicted posthumous citations for the star
inxss_lasso_all_ntrt_cites	Cumulative "excess" posthumous citations for the star
nb_cites_nwndw5	Cumulative actual posthumous citations for the star, excluding five years post-death window
<pre>xpctd_lasso_nwndw5_ntrt_cites</pre>	Cumulative predicted posthumous citations for the star, excluding five years post-death window
<pre>inxss_lasso_nwndw5_ntrt_cites</pre>	Cumulative "excess" posthumous citations for the star, excluding five years post-death window
nb_cites_ncmmrlzr	Cumulative actual posthumous citations for the star, excluding those from coauthors and memorializers
<pre>xpctd_lasso_ncmmrlzr_ntrt_cites</pre>	Cumulative predicted posthumous citations for the star, excluding those from coauthors and memorializers
inxss_lasso_ncmmrlzr_ntrt_cites	Cumulative "excess" posthumous citations for the star, excluding those from coauthors and memorializers
nb_cites_ncmmrlzr5	Cumulative actual posthumous citations for the star, excluding both
<pre>xpctd_lasso_ncmmrlzr5_ntrt_cites</pre>	Cumulative predicted posthumous citations for the star, excluding both
<pre>inxss_lasso_ncmmrlzr5_ntrt_cites</pre>	Cumulative "excess" posthumous citations for the star, excluding both