Azoulay, Pierre, Christian Fons-Rosen, and Joshua S. Graff Zivin. 2019. "Does Science Advance One Funeral at a Time?" American Economic Review, 109 (8): 2889-2920.

小组成员分工

龚曼宁：Table1 2 Figure1 2

佟彤：Figure 3

李锦坡：Table3-7

Figure 1. Cumulative Stock of Publications at Time of Death

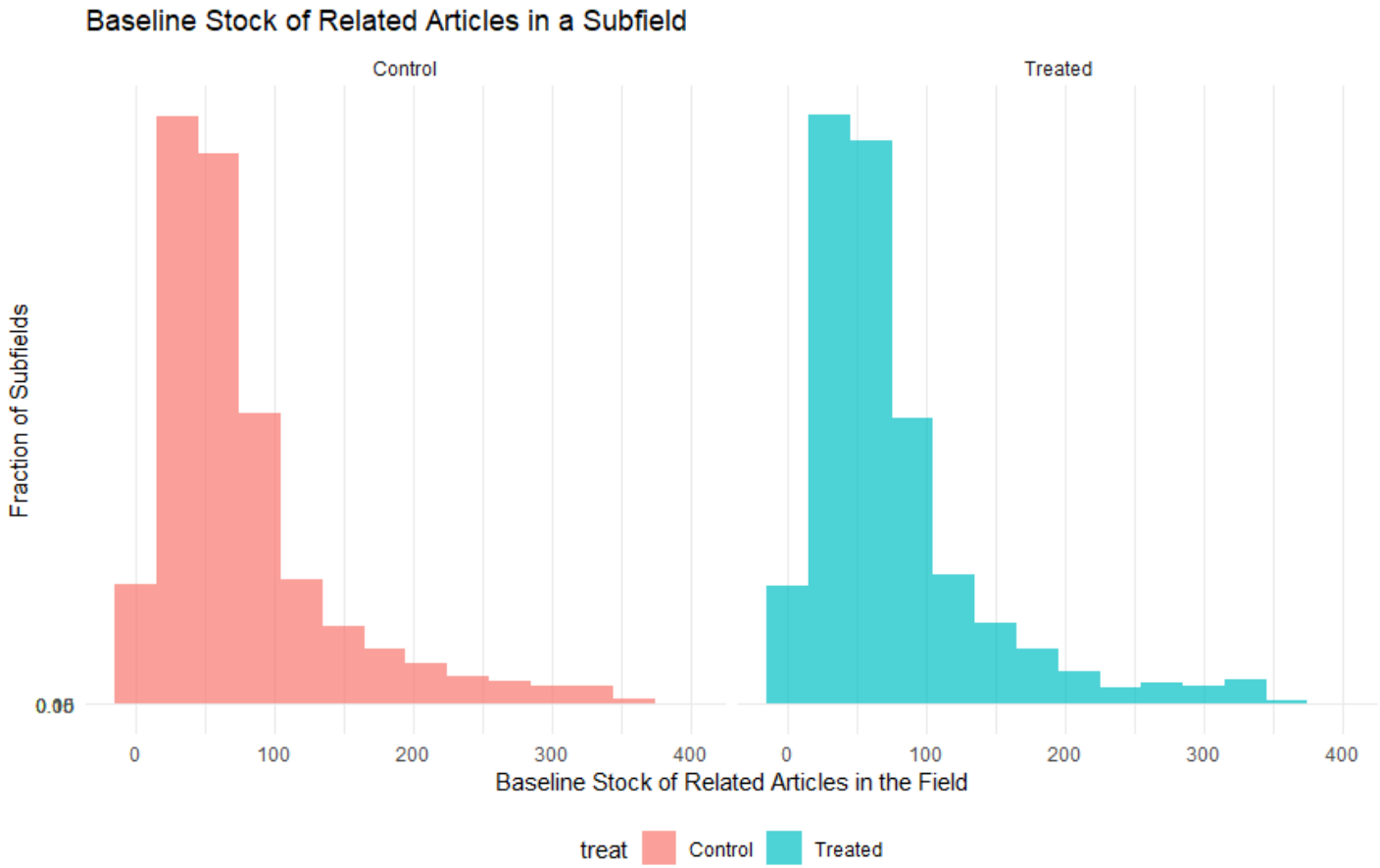
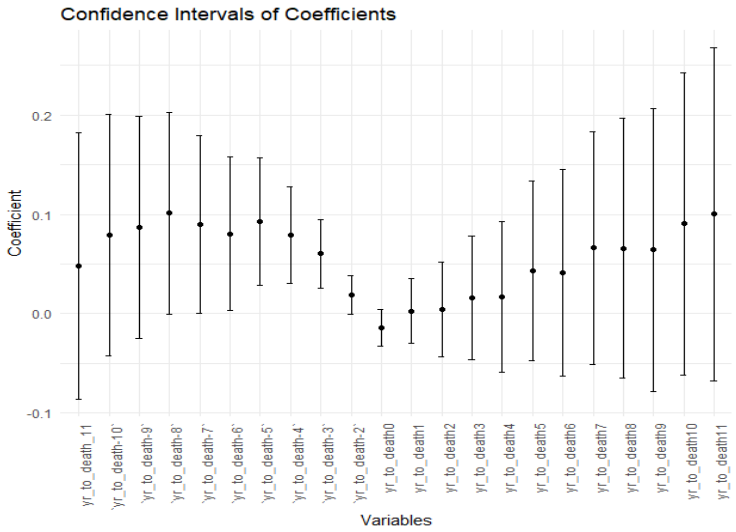
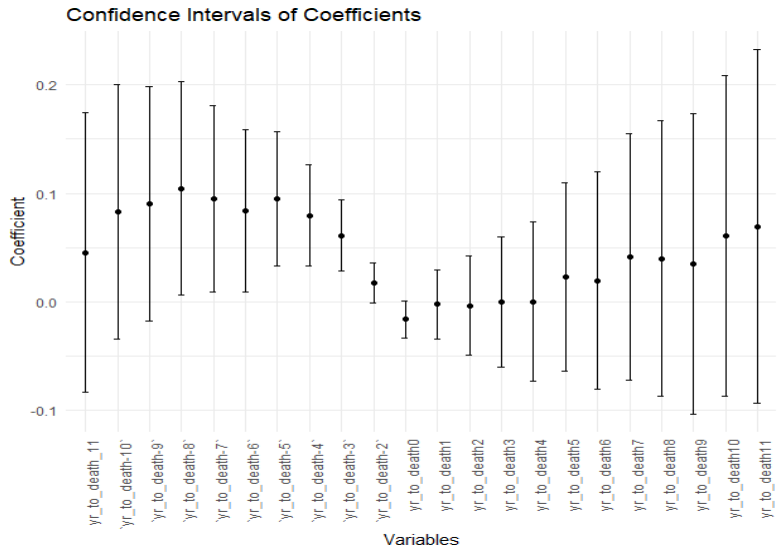


Figure 2. Effect of Star Scientist Death on Subfield Growth and Decline





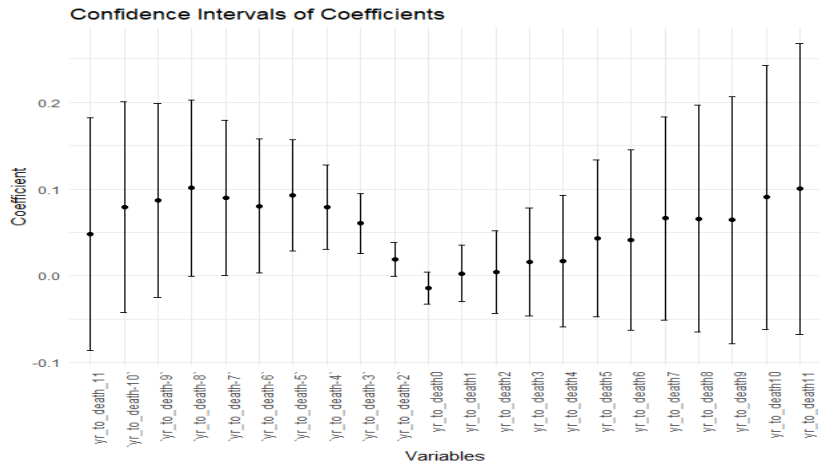
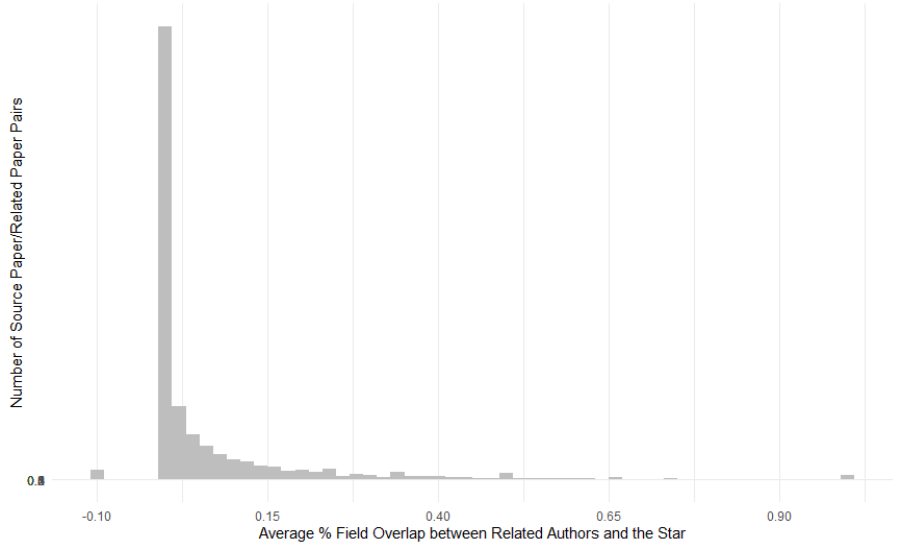


Figure 3. Characteristics of Related Authors: Competitors or Outsiders?



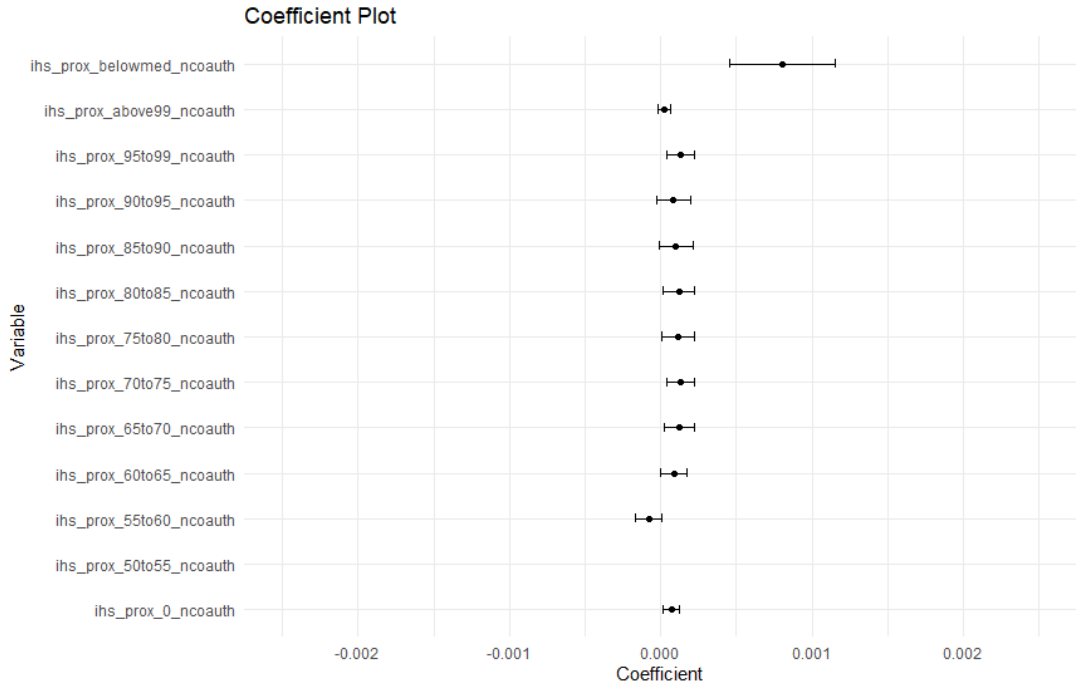


Table 1—Summary Statistics: Deceased Superstar Scientists

VARIABLE	mean	median	sd	min	max
Year of Birth	1,932.97	1,934.00	10.57	1,899.00	1,959.00
Degree year	1,960.08	1,961.00	10.90	1,928.00	1,986.00
Year of Death	1,991.05	1,991.00	7.99	1,975.00	2,003.00
Age at Death	58.08	58.00	8.79	34.00	91.00
Female	0.10	-	0.30	-	1.00
MD Degree	0.36	-	0.48	-	1.00
PhD Degree	0.50	1.00	0.50	-	1.00
MD/PhD Degree	0.14	-	0.35	-	1.00
Sudden Death	0.44	-	0.50	-	1.00
Nb. of Subfields	14.64	12.00	11.48	1.00	57.00
Career Nb. of Pubs.	169.30	143.00	118.22	12.00	1,380.00
Career Nb. of Citations	11,518.00	8,726.00	10,148.48	120.00	72,122.00
Career NIH Funding	17,633,187.58	12,049,690.00	24,951,942.10	-	329,968,960.00
Sits on NIH Study Section	0.01	-	0.08	-	1.00
Career Nb. of Editorials	0.10	-	0.89	-	17.00

Table 2—Summary Statistics: Control and Treated Subfields at Baseline

TREAT=1	mean	median	sd	min	max
Baseline Stock of Related Articles in the Field	76.28	58.00	64.05	-	368.00
Baseline Stock of Related Articles in the Field, Non-Collaborators	67.75	50.50	59.73	-	357.00
Baseline Stock of Related Articles in the Field, Collaborators	8.53	5.00	9.84	-	86.00
Investigator Gender	3.99	4.00	1.91	1.00	14.00
Death Year	16.69	8.00	36.33	-	920.00
Age at Death	70.43	35.00	180.53	1.00	6,598.00
Investigator Cuml. Nb. of Publications	0.10	-	0.30	-	1.00
Investigator Cuml. Nb. of Citations	1,960.14	1,961.00	10.90	1,928.00	1,986.00
Source Article Nb. of Authors	1,991.12	1,991.00	7.97	1,975.00	2,003.00
Source Article Long-run Citations	58.10	58.00	8.80	34.00	91.00
Source Article Citations at Baseline	169.50	143.00	118.11	12.00	1,380.00
Investigator Cuml. NIH Funding at Baseline	17,637,725.57	12,049,690.00	24,873,017.73	-	329,968,960.00
Investigator Year of Degree	11,579.98	8,726.00	10,212.01	120.00	72,122.00

TREAT=0	mean	median	sd	min	max
Baseline Stock of Related Articles in the Field	76.28	58.00	64.05	-	368.00
Baseline Stock of Related Articles in the Field, Non-Collaborators	67.75	50.50	59.73	-	357.00
Baseline Stock of Related Articles in the Field, Collaborators	8.53	5.00	9.84	-	86.00
Investigator Gender	3.99	4.00	1.91	1.00	14.00
Death Year	16.69	8.00	36.33	-	920.00
Age at Death	70.43	35.00	180.53	1.00	6,598.00
Investigator Cuml. Nb. of Publications	0.10	-	0.30	-	1.00
Investigator Cuml. Nb. of Citations	1,960.14	1,961.00	10.90	1,928.00	1,986.00
Source Article Nb. of Authors	1,991.12	1,991.00	7.97	1,975.00	2,003.00
Source Article Long-run Citations	58.10	58.00	8.80	34.00	91.00
Source Article Citations at Baseline	169.50	143.00	118.11	12.00	1,380.00
Investigator Cuml. NIH Funding at Baseline	17,637,725.57	12,049,690.00	24,873,017.73	-	329,968,960.00
Investigator Year of Degree	11,579.98	8,726.00	10,212.01	120.00	72,122.00

Table 3—7

- Result show in R code.