

S4 Table: Summary statistics from evaluation against the null model, in prominent and randomly-sampled scientists across fields.

Population	Model	Test statistic (\downarrow)	p -value
Physics (prominent)	kNN	3864.0	$2.87 \times 10^{-35*}$
	Prototype	4116.0	$1.43 \times 10^{-33*}$
	Progenitor	4956.0	$1.75 \times 10^{-28*}$
	Exemplar	2100.0	$1.41 \times 10^{-47*}$
	Local	5292.0	$1.43 \times 10^{-26*}$
Chemistry (prominent)	kNN	1740.0	$4.99 \times 10^{-28*}$
	Prototype	1680.0	$2.60 \times 10^{-28*}$
	Progenitor	2760.0	$5.46 \times 10^{-19*}$
	Exemplar	960.0	$1.25 \times 10^{-35*}$
	Local	2640.0	$6.30 \times 10^{-20*}$
Medicine (prominent)	kNN	2642.0	$2.25 \times 10^{-35*}$
	Prototype	2567.0	$7.44 \times 10^{-36*}$
	Progenitor	3322.0	$2.59 \times 10^{-30*}$
	Exemplar	1057.0	$2.10 \times 10^{-48*}$
	Local	3171.0	$2.21 \times 10^{-31*}$
Economics (prominent)	kNN	740.0	$1.31 \times 10^{-16*}$
	Prototype	888.0	$1.69 \times 10^{-14*}$
	Progenitor	1406.0	$2.40 \times 10^{-8*}$
	Exemplar	592.0	$7.09 \times 10^{-19*}$
	Local	962.0	$1.69 \times 10^{-13*}$
Computer Science (Prominent)	kNN	621.0	$5.86 \times 10^{-16*}$
	Prototype	621.0	$5.86 \times 10^{-16*}$
	Progenitor	759.0	$7.96 \times 10^{-14*}$
	Exemplar	345.0	$9.86 \times 10^{-21*}$
	Local	1104.0	$3.15 \times 10^{-9*}$
Physics (random)	kNN	4788.0	$6.48 \times 10^{-30*}$
	Prototype	5544.0	$4.01 \times 10^{-25*}$
	Progenitor	5712.0	$3.19 \times 10^{-24*}$
	Exemplar	3024.0	$9.65 \times 10^{-41*}$
	Local	4536.0	$6.75 \times 10^{-31*}$
Chemistry (random)	kNN	2700.0	$1.19 \times 10^{-19*}$
	Prototype	2340.0	$1.88 \times 10^{-22*}$
	Progenitor	2460.0	$1.89 \times 10^{-21*}$
	Exemplar	1140.0	$7.85 \times 10^{-34*}$
	Local	2580.0	$1.79 \times 10^{-20*}$
Medicine (random)	kNN	3699.5	$5.97 \times 10^{-28*}$
	Prototype	5964.5	$8.66 \times 10^{-15*}$
	Progenitor	4605.5	$4.55 \times 10^{-22*}$
	Exemplar	2944.5	$4.12 \times 10^{-33*}$
	Local	4152.5	$7.60 \times 10^{-25*}$
Economics (random)	kNN	925.0	$4.57 \times 10^{-14*}$
	Prototype	1665.0	$5.17 \times 10^{-6*}$
	Progenitor	1221.0	$2.25 \times 10^{-10*}$
	Exemplar	629.0	$2.16 \times 10^{-18*}$
	Local	703.0	$2.99 \times 10^{-17*}$
Computer Science (Random)	kNN	931.5	$1.38 \times 10^{-11*}$
	Prototype	724.5	$2.01 \times 10^{-14*}$
	Progenitor	1138.5	$7.16 \times 10^{-9*}$
	Exemplar	517.5	$9.05 \times 10^{-18*}$
	Local	724.5	$2.01 \times 10^{-14*}$