Empirical Appendix

Figure A1: Frequent Words with Significant Gender Disparities

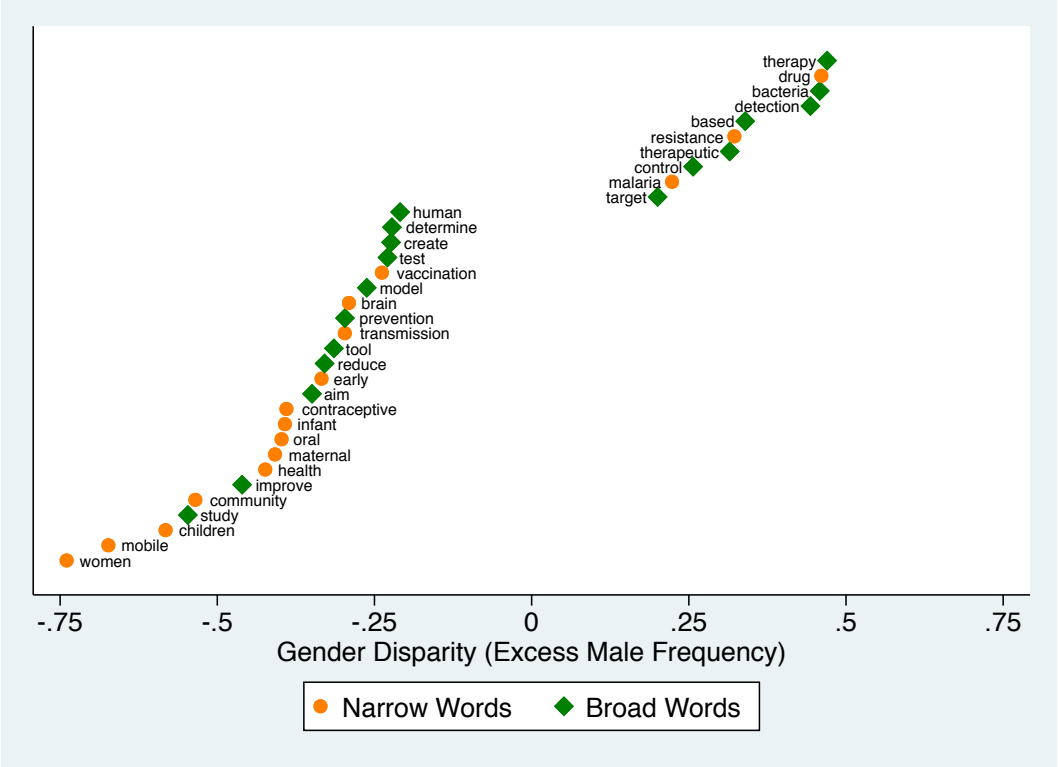

Figure A2: Frequent Words with Significant Score Disparities

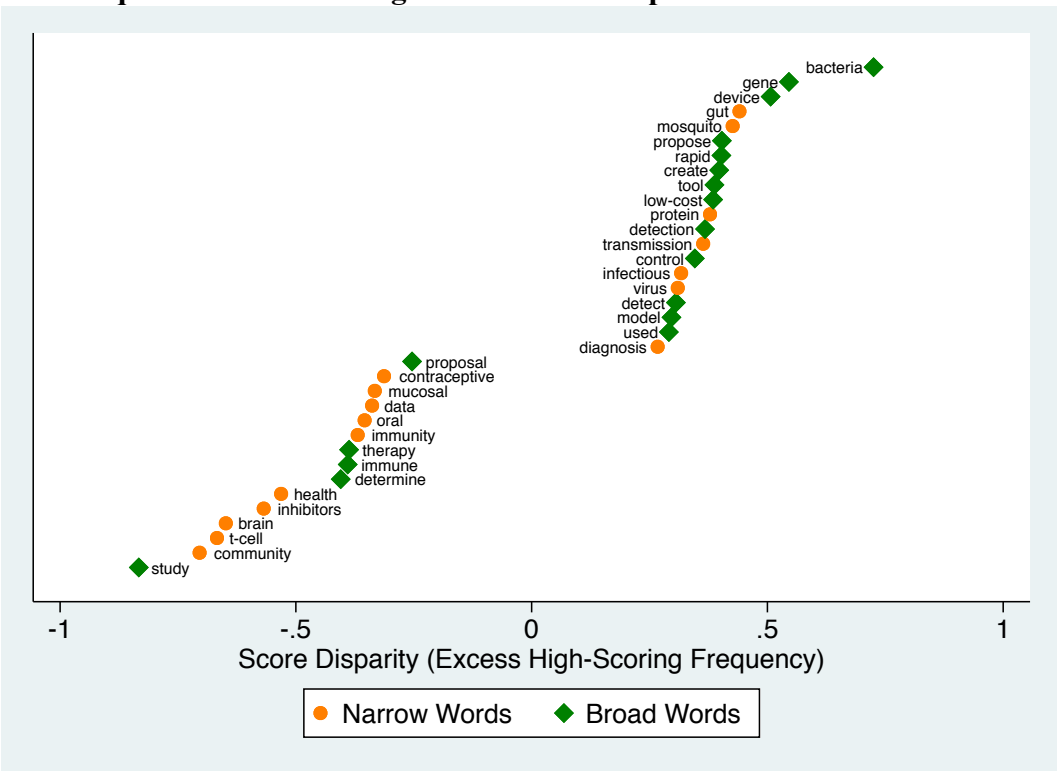

Figure A3: High-Scoring vs. Low-Scoring Word Use Rates for Broad and Narrow Words
Note: Words selected based on high use frequency.

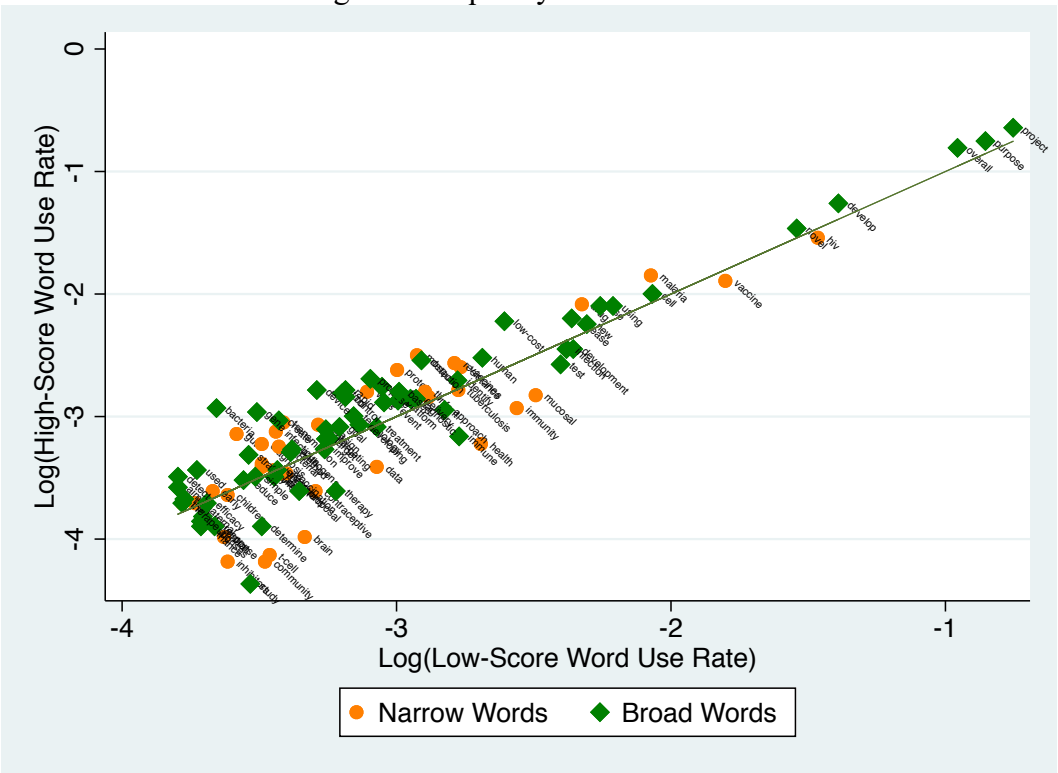

Figure A4: High-Scoring vs. Low-Scoring Word Use Rates for Selected Words
Note: Words selected based on high use rate and significant correlation with applicant gender.

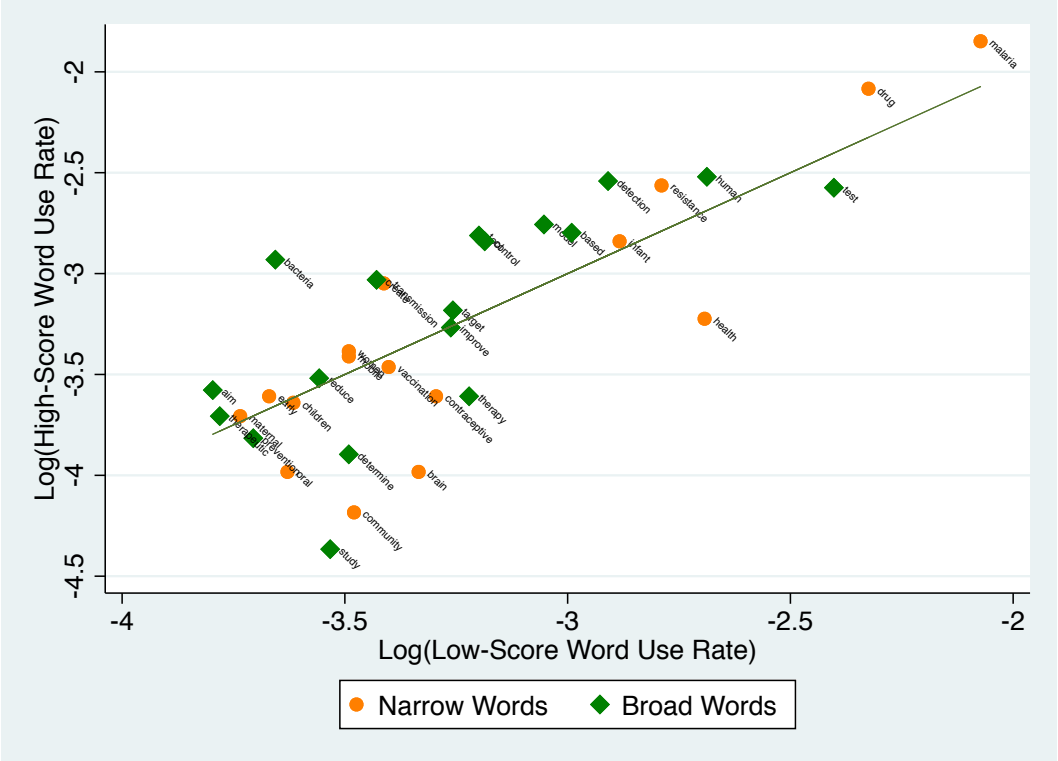

Figure A5: Male vs. Female Word Use Rates for High- and Low-Scoring Words

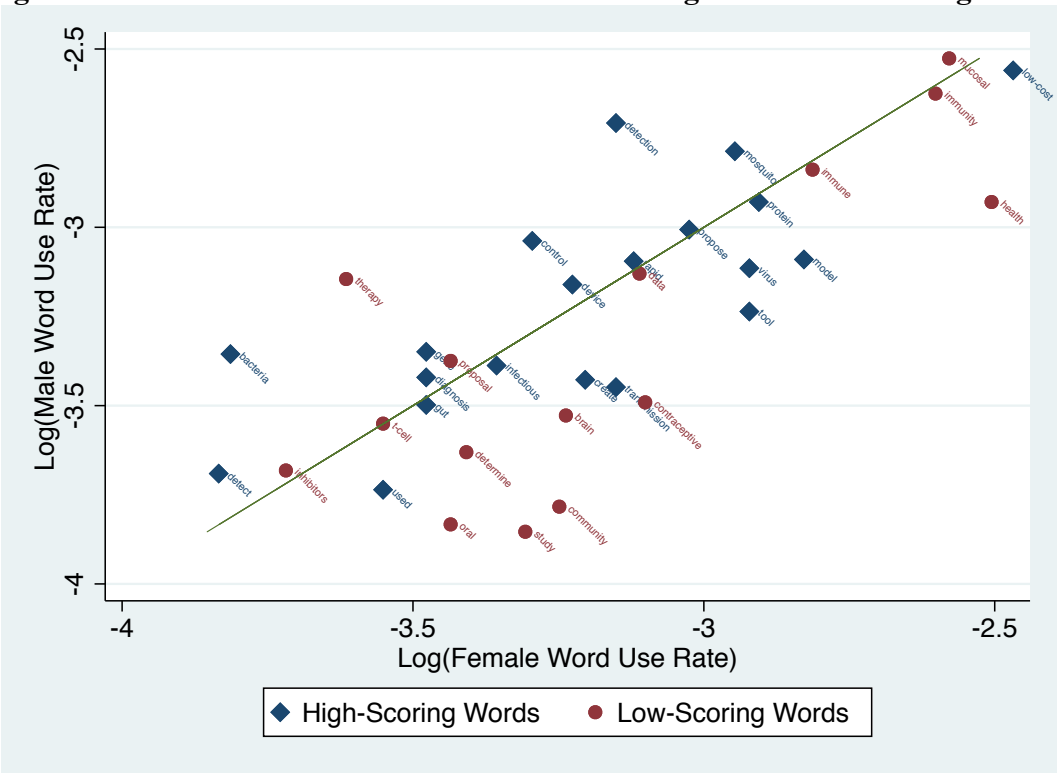

Figure A6: Comparing Word-Level Score Disparities for Male and Female Applicants

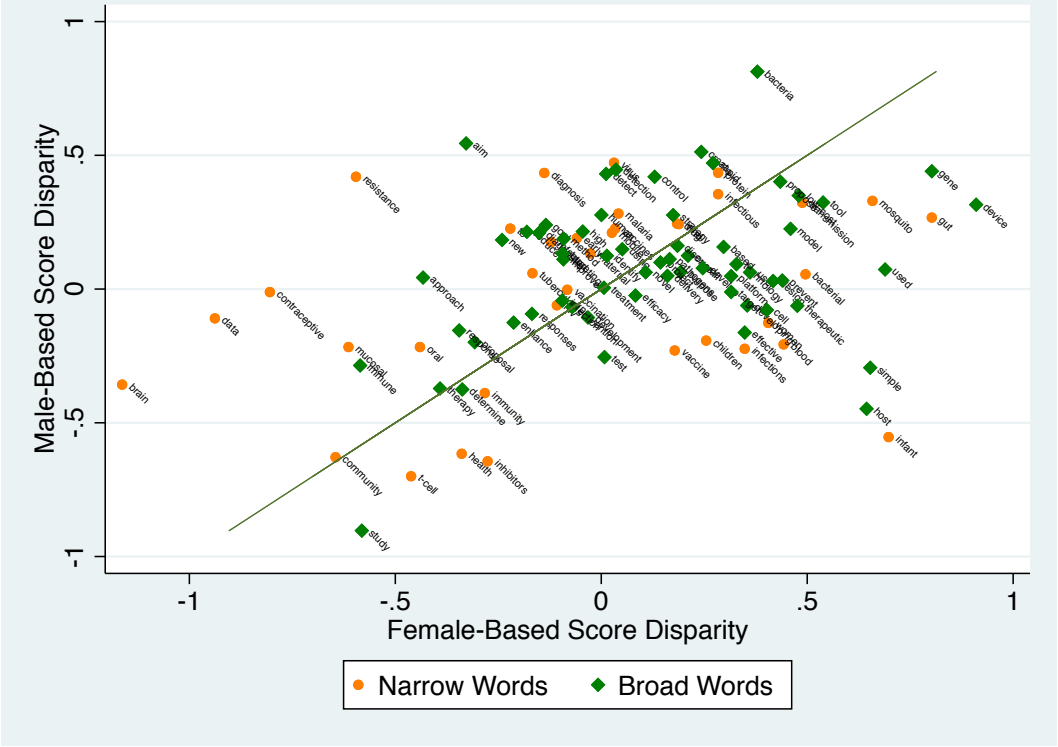

Figure A7: Male-Based Score Disparities and Gender-Based Use for Selected Words

Note: the y-axis tracks words that score well (or poorly) when used by male applicants

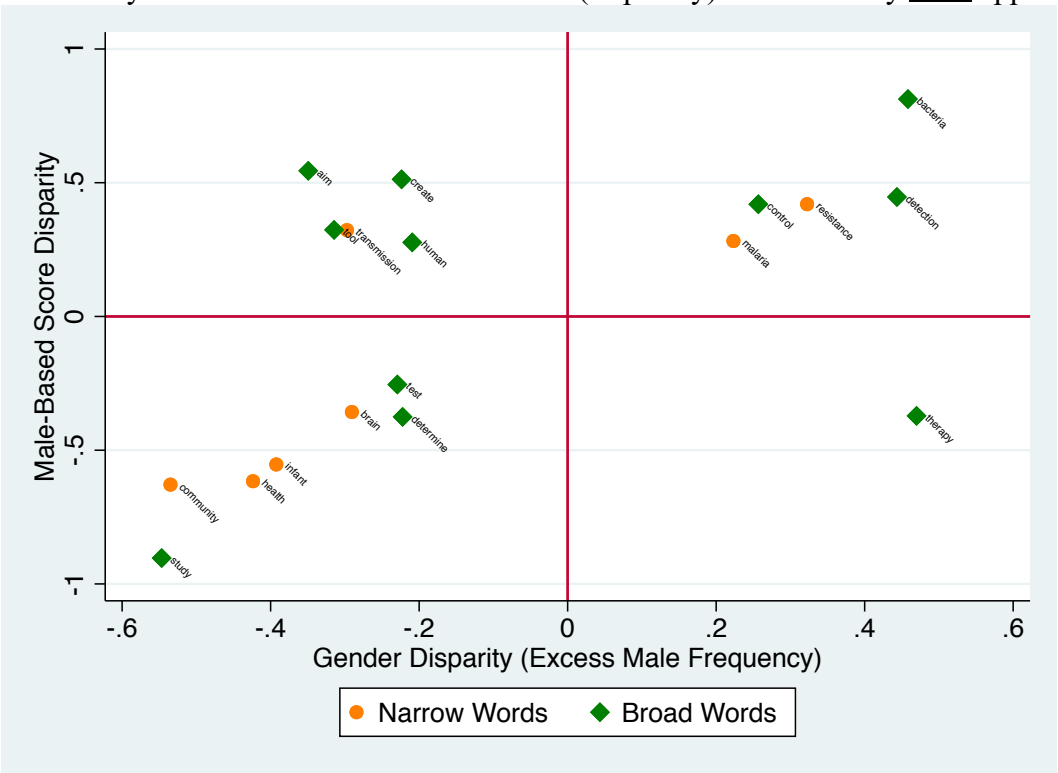

Figure A8: Female-Based Score Disparities and Gender-Based Use for Selected Words

Note: the y-axis tracks words that score well (or poorly) when used by female applicants

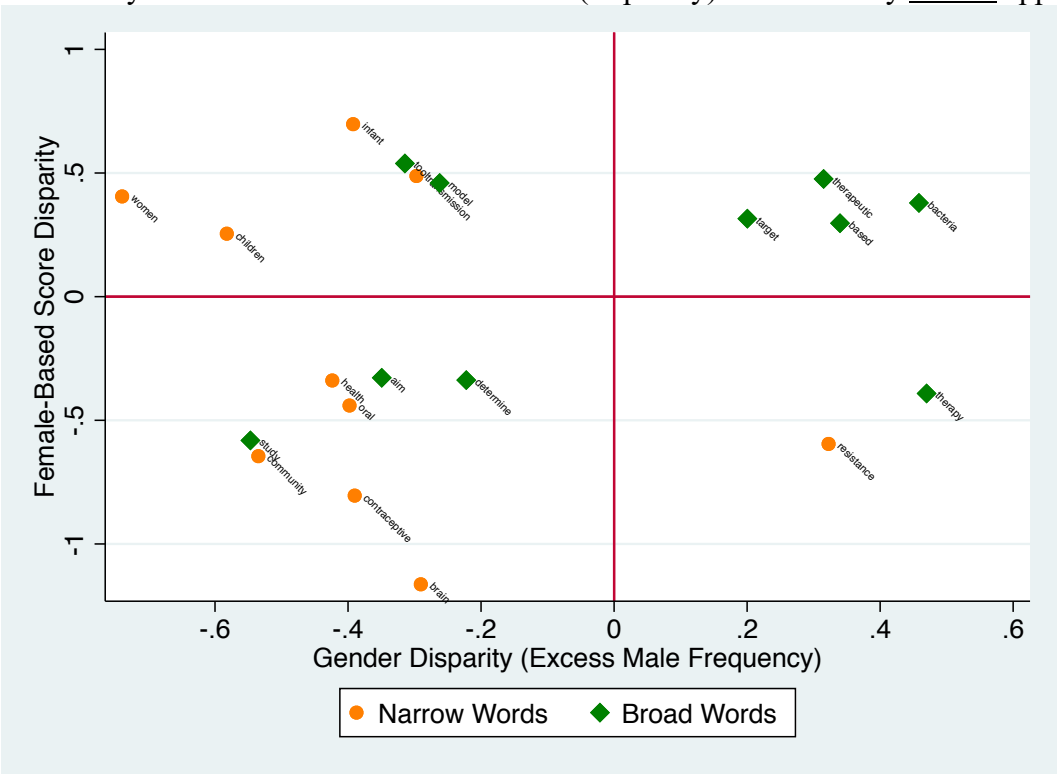

Table A1: Selected High- and Low-Scoring Words by Topic

This table lists common words with significant associations with reviewer scores within each of the topic areas in our sample. The top three high-scoring and low-scoring words are selected within each topic based ona combination of topic-specific score disparity and within-topic word frequency.

Topic Area	# of Proposals	High-Scoring Words			Low-Scoring Words		
Overall	6794	bacteria	engineering	device	health	fetal	study
HIV	1169	latent	eliminate	latently	microbicide	immune	targets
Discovery Core	1152	polio	sensor	devices	acid	reduce	nucleic
Malaria	906	sensors	blocking	acoustic	biomarkers	strategy	inhibitors
Reproductive & Neonatal Health	898	setting	device	pleasure	biomarkers	brain	fetal
Tuberculosis	608	funciton	urine	detect	cell	resistant	molecular
Diarrhea	502	dysfunction	bacteria	synthetic	rotavirus	asd	oral
Other	494	latrine	waste	new	wearable	disease	improve
Miscellaneous Diseases	429	snails	innovative	low-cost	blood	protective	onchocerciasis
Agriculture & Nutrition	383	plants	nematodes	block	vitamin	immune	feedback
Pneumonia	253	drug	mobile	resistance	children	infection	mucosal

Table A2: Relative Word Frequency Analysis: Score Disparity vs. Female Disparity

This table analyzes the top 1000 most frequent words used in the titles and descriptions of our sample of proposals. It focuses on the relationship between "score disparity," or the rate at which a given word appears disproportionately in high-scoring proposals relative to low-scoring, and "female_disparity," or the rate at which the word appears disproportionately in female-submitted proposals relative to those from male applicants.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	DV = Word-Level Score Disparity						
VARIABLES	Sample: All Words	Sample: All Words	Sample: All Words	Sample: Broad Words	Sample: Narrow Words	Sample: High-Scoring Words	Sample: Low-Scoring Words
Word-Level Female Disparity	-0.161***	-0.142***	-0.099**	-0.086	-0.104*	-0.059**	-0.017
	(0.035)	(0.039)	(0.040)	(0.063)	(0.053)	(0.029)	(0.041)
Round Controls	N	Y	Y	Y	Y	Y	Y
Topic Area Controls	N	N	Y	Y	Y	Y	Y
Observations	996	996	996	498	498	498	498
R-squared	0.022	0.126	0.148	0.163	0.195	0.260	0.159

OLS Specification; Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

Table A3: Applicant Characteristics and Proposal Text Grade Level

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	(1)	(2)	(3)	(4)
	DV = Proposal Text Gradel Level			
VARIABLES	Flesch-Kincaid	Gunning Fog	SMOG	Average
Female Applicant	0.008	-0.050	-0.024	-0.022
	(0.061)	(0.086)	(0.046)	(0.059)
Log(Total Word Count)	3.452***	3.442***	4.239***	3.711***
	(0.189)	(0.269)	(0.160)	(0.189)
Log(Frequent Word Count)	1.045***	1.351***	1.050***	1.149***
	(0.142)	(0.188)	(0.098)	(0.131)
Noun Share	0.090	-0.191	-0.150	-0.084
	(0.364)	(0.519)	(0.269)	(0.351)
Adjective Share	-1.887***	-3.152***	-0.837**	-1.959***
	(0.512)	(0.668)	(0.326)	(0.448)
Verb Share	-2.389***	-2.033**	-1.041***	-1.821***
	(0.562)	(0.792)	(0.388)	(0.529)
Log(Applicant Career Length)	-0.000	-0.003	-0.022	-0.008
	(0.039)	(0.055)	(0.030)	(0.038)
Share of Top-Journal Pubs	0.030	0.256	0.053	0.113
	(0.150)	(0.205)	(0.107)	(0.142)
Round FEs	Y	Y	Y	Y
Topic Area FEs	Y	Y	Y	Y
Applicant Publication Characteristics	Y	Y	Y	Y
Additional Text-Based Controls	Y	Y	Y	Y
Observations	6,794	6,794	6,794	6,794
R-squared	0.599	0.464	0.514	0.539

OLS Specification; Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1