

Online Appendix: Robustness of Main Results**Appendix A: Models for Dissenting and Concurring Opinions**

Table A1. Without Author Fixed Effects

	Dissents	Concurrences
Author personal importance	2.068** (0.131)	1.828** (0.220)
Coalition size	0.012 (0.011)	-0.010 (0.014)
Aggregate personal importance (all other justices)	1.771** (0.285)	1.322** (0.507)
Issue area (civil rights or liberties)	0.236** (0.025)	0.192** (0.043)
Special concurrences	0.007 (0.013)	-0.002 (0.016)
Regular concurrences	0.006 (0.012)	-0.008 (0.015)
Judicial review	-0.012 (0.039)	0.013 (0.056)
Altered precedent	0.023 (0.064)	-0.073 (0.093)
Ideological accommodation	-0.084** (0.016)	-0.046 (0.031)
Author age	-0.002 (0.001)	-0.002 (0.002)
Chief justice author	0.005 (0.049)	-0.030 (0.079)
Year	0.003** (0.001)	0.003** (0.001)
Word count	0.002** (0.0004)	0.006** (0.001)
Author-fixed effects?	No	No
R ²	0.12	0.07
N	5496	3165

Note: OLS regression coefficients with standard errors. *p<.05, **p<0.01.

A2. Three Separate Measures of Negativity

	Very unpleasant words		Negative words		Negative emotion words	
	Dissents	Concur	Dissents	Concur	Dissents	Concur
Author personal importance	2.324** (0.247)	2.387** (0.428)	3.965** (0.229)	2.986** (0.381)	1.711** (0.143)	1.613** (0.230)
Coalition size	0.064** (0.021)	0.031 (0.027)	0.017 (0.019)	-0.028 (0.024)	-0.018 (0.012)	-0.021 (0.014)
Aggregate personal importance (all other justices)	2.805** (0.563)	2.049* (1.023)	3.175** (0.520)	3.079** (0.910)	1.462** (0.325)	1.483** (0.550)
Issue area (civil rights or liberties)	0.216** (0.048)	0.068 (0.084)	0.511** (0.044)	0.547** (0.075)	0.155** (0.028)	0.085 (0.045)
Special concurrences	-0.015 (0.024)	-0.021 (0.031)	0.008 (0.022)	-0.021 (0.027)	0.026 (0.014)	0.020 (0.017)
Regular concurrences	-0.020 (0.023)	-0.046 (0.030)	0.044* (0.022)	-0.009 (0.027)	-0.002 (0.013)	0.000 (0.016)
Judicial review	0.182* (0.074)	0.095 (0.109)	-0.074 (0.068)	-0.072 (0.097)	-0.067 (0.042)	0.027 (0.059)
Altered precedent	0.200 (0.120)	-0.182 (0.181)	0.073 (0.111)	-0.098 (0.161)	-0.105 (0.069)	-0.030 (0.097)
Ideological accommodation	-0.087** (0.033)	-0.131* (0.065)	-0.057 (0.031)	-0.060 (0.058)	-0.067** (0.019)	-0.019 (0.035)
Author age	-0.019* (0.009)	0.008 (0.026)	-0.004 (0.008)	-0.003 (0.023)	-0.003 (0.005)	-0.009 (0.014)
Chief justice author	0.042 (0.192)	0.144 (0.464)	0.339 (0.177)	-0.360 (0.413)	-0.017 (0.111)	0.133 (0.249)
Year	0.013 (0.009)	-0.010 (0.025)	0.004 (0.008)	0.004 (0.023)	0.007 (0.005)	0.013 (0.014)
Word count	0.003** (0.001)	0.010** (0.002)	0.004** (0.001)	0.008** (0.002)	0.001** (0.0004)	0.005** (0.001)
Author-fixed effects?	Yes	Yes	Yes	Yes	Yes	Yes
R ²	0.07	0.05	0.16	0.10	0.09	0.06
N	5496	3165	5496	3165	5496	3165

Note: OLS regression coefficients with standard errors. *p<.05, **p<0.01.

Table A3. Without Controlling for Collective Importance

	Dissents	Concurrences
Author personal importance	1.749** (0.121)	1.637** (0.212)
Coalition size	0.011 (0.011)	-0.007 (0.014)
Issue area (civil rights or liberties)	0.274** (0.025)	0.215** (0.042)
Special concurrences	0.007 (0.013)	-0.005 (0.016)
Regular concurrences	0.006 (0.012)	-0.015 (0.016)
Judicial review	-0.016 (0.039)	-0.004 (0.056)
Altered precedent	0.045 (0.064)	-0.074 (0.093)
Ideological accommodation	-0.055** (0.018)	-0.050 (0.034)
Author age	-0.006 (0.005)	-0.002 (0.013)
Chief justice author	0.068 (0.103)	-0.022 (0.240)
Year	0.006 (0.005)	0.003 (0.013)
Word count	0.002** (0.0004)	0.006** (0.001)
Author-fixed effects ²	Yes	Yes
R ²	0.13	0.08
N	5496	3165

Note: OLS regression coefficients with standard errors. *p<.05, **p<0.01.

Table A4. Natural Court

	Dissents	Concurrences
Author personal importance	2.100** (0.219)	1.848** (0.263)
Coalition size	0.014 (0.014)	-0.006 (0.017)
Aggregate personal importance (all other justices)	1.946** (0.346)	1.743** (0.523)
Issue area (civil rights or liberties)	0.228** (0.049)	0.176** (0.056)
Special concurrences	0.007 (0.011)	-0.003 (0.019)
Regular concurrences	0.005 (0.013)	-0.013 (0.024)
Judicial review	0.005 (0.053)	0.015 (0.053)
Altered precedent	0.031 (0.072)	-0.079 (0.081)
Ideological accommodation	-0.058* (0.024)	-0.053 (0.036)
Author age	-0.007** (0.001)	-0.002 (0.003)
Chief justice author	0.086 (0.113)	-0.006 (0.075)
Year	0.006** (0.001)	0.003 (0.002)
Word count	0.002** (0.001)	0.006** (0.001)
Author-fixed effects?	Yes	Yes
R ²	0.13	0.08
N	5496	3165

Note: OLS regression coefficients with standard errors clustered by natural Court. *p<.05, **p<0.01.

Table A5. Case-Level

	Dissents	Concurrences
Author personal importance	2.100** (0.145)	1.848** (0.250)
Coalition size	0.014 (0.012)	-0.006 (0.015)
Aggregate personal importance (all other justices)	1.946** (0.312)	1.743** (0.508)
Issue area (civil rights or liberties)	0.228** (0.026)	0.176** (0.043)
Special concurrences	0.007 (0.016)	-0.003 (0.018)
Regular concurrences	0.005 (0.013)	-0.013 (0.018)
Judicial review	0.005 (0.044)	0.015 (0.066)
Altered precedent	0.031 (0.069)	-0.079 (0.094)
Ideological accommodation	-0.058** (0.019)	-0.053 (0.038)
Author age	-0.007 (0.004)	-0.002 (0.003)
Chief justice author	0.086 (0.110)	-0.006 (0.191)
Year	0.006 (0.004)	0.003 (0.002)
Word count	0.002** (0.0004)	0.006** (0.001)
Author-fixed effects?	Yes	Yes
R ²	0.13	0.08
N	5496	3165

Note: OLS regression coefficients with standard errors clustered by case ID. *p<.05, **p<0.01.

Appendix B: Models for Majority Opinions

Table B1. Two Stage Least Squares Estimates Without Author Fixed Effects

	First Stage DV Opinion Disagreeability	Second Stage DV Coalition Size
Author personal importance	2.074** (0.104)	~
Coalition size	-0.010 (0.027)	~
Disagreeable rhetoric	~	-0.485** (0.104)
Missing member	~	-0.718** (0.042)
Aggregate personal importance (all other justices)	2.095** (0.193)	-1.035** (0.373)
Issue area (civil rights or liberties)	0.239** (0.021)	-0.250** (0.056)
Special concurrences	0.038** (0.013)	0.356** (0.018)
Regular concurrences	0.025* (0.010)	0.086** (0.021)
Judicial review	-0.009 (0.032)	-0.335** (0.067)
Altered precedent	0.094 (0.054)	-0.107 (0.116)
Ideological accommodation	-0.060** (0.023)	0.729** (0.027)
Author age	-0.001 (0.001)	-0.009** (0.002)
Chief justice author	0.033 (0.025)	0.263** (0.053)
Year	0.007** (0.001)	0.008** (0.001)
Word count	-0.002** (0.0004)	-0.013** (0.001)
Author-fixed effects?	No	No
R ²	0.198	0.235
F-Stat	124.97	173.54
N	6642	6642

Note: 2-Stage Least Squares regression coefficients with standard errors. *p<.05, **p<0.01.

Table B2. Two Stage Least Squares Estimates Using Three Separate Measures of Negativity

	Very unpleasant words		Negative words		Negative emotion words	
	First st. DV: Opinion disagreeab.	Second st. DV: Coalition size	First st. DV: Opinion disagreeab.	Second st. DV: Coalition size	First st. DV: Opinion disagreeab.	Second st. DV: Coalition size
Author personal importance	4.111** (0.180)	~	2.218** (0.192)	~	1.630** (0.117)	~
Coalition size	-0.028 (0.048)	~	0.002 (0.051)	~	-0.004 (0.031)	~
Disagreeable rhetoric	~	-0.237** (0.051)	~	-0.443** (0.102)	~	-0.601** (0.133)
Missing member	~	-0.706** (0.041)	~	-0.711** (0.044)	~	-0.708** (0.042)
Aggregate personal importance (all other justices)	3.780** (0.331)	-0.790* (0.366)	2.637** (0.353)	-0.531 (0.400)	1.712** (0.215)	-0.665 (0.380)
Issue area (civil rights or liberties)	0.586** (0.035)	-0.165** (0.060)	0.230** (0.037)	-0.205** (0.056)	0.146** (0.023)	-0.218** (0.052)
Special concurrences	0.070** (0.022)	0.352** (0.018)	0.033 (0.024)	0.352** (0.019)	0.035* (0.014)	0.357** (0.019)
Regular concurrences	0.056** (0.017)	0.101** (0.021)	0.015 (0.019)	0.095** (0.022)	0.026* (0.011)	0.104** (0.021)
Judicial review	-0.152** (0.055)	-0.339** (0.066)	0.210** (0.059)	-0.212** (0.070)	-0.085* (0.036)	-0.355** (0.069)
Altered precedent	0.185* (0.092)	-0.055 (0.113)	0.183 (0.099)	-0.019 (0.122)	0.037 (0.060)	-0.077 (0.116)
Ideological accommodation	-0.051 (0.045)	0.846** (0.029)	-0.087 (0.048)	0.826** (0.032)	-0.063* (0.029)	0.823** (0.031)
Author age	-0.046* (0.022)	-0.017 (0.027)	-0.037 (0.024)	-0.023 (0.029)	-0.030* (0.015)	-0.024 (0.028)
Chief justice author	0.313** (0.107)	0.472** (0.129)	0.184 (0.114)	0.483** (0.136)	-0.009 (0.069)	0.394** (0.131)
Year	0.051* (0.022)	0.011 (0.027)	0.045 (0.024)	0.018 (0.029)	0.036* (0.015)	0.020 (0.028)
Word count	-0.003** (0.001)	-0.012** (0.001)	-0.005** (0.001)	-0.014** (0.001)	-0.001* (0.001)	-0.013** (0.001)
Author-fixed effects?	Yes	Yes	Yes	Yes	Yes	Yes
R ²	0.255	0.276	0.102	0.187	0.119	0.238
F-Stat	45.66	53.76	15.23	47.89	18.02	51.10
N	6642	6642	6642	6642	6642	6642

Note: 2-Stage Least Squares regression coefficients with standard errors. *p<.05, **p<0.01.

Table B3. Separate OLS Models of Opinion Negativity and Coalition Size

	DV: Disagreeable rhetoric	DV: Coalition size
Author personal importance	2.067** (0.102)	~
Coalition size	-0.021** (0.006)	~
Disagreeable rhetoric	~	-0.117** (0.025)
Missing member	~	-0.709** (0.041)
Aggregate personal importance (all other justices)	2.109** (0.187)	-0.941** (0.360)
Issue area (civil rights or liberties)	0.242** (0.019)	-0.342** (0.036)
Special concurrences	0.042** (0.009)	0.341** (0.018)
Regular concurrences	0.027** (0.010)	0.091** (0.020)
Judicial review	-0.017 (0.031)	-0.287** (0.064)
Altered precedent	0.100 (0.054)	-0.112 (0.111)
Ideological accommodation	-0.044** (0.014)	0.860** (0.028)
Author age	-0.030* (0.013)	-0.010 (0.027)
Chief justice author	0.123* (0.061)	0.419** (0.127)
Year	0.035** (0.013)	0.003 (0.027)
Word count	-0.002** (0.0003)	-0.012** (0.001)
Author-fixed effects?	Yes	Yes
R ²	0.21	0.29
N	6642	6642

Note: Regression coefficients with standard errors for two separate OLS models. *p<.05, **p<0.01.

Table B4. Two Stage Least Squares Estimates Accounting for Dissent Tone

	First Stage DV Opinion Disagreeability	Second Stage DV Coalition Size
Author personal importance	1.350** (0.092)	~
Coalition size	-0.033 (0.024)	~
Disagreeable rhetoric	~	-0.722** (0.159)
Missing member	~	-0.693** (0.042)
Aggregate personal importance (all other justices)	1.272** (0.167)	-0.758* (0.374)
Issue area (civil rights or liberties)	0.159** (0.018)	-0.186** (0.057)
Special concurrences	0.046** (0.011)	0.362** (0.019)
Regular concurrences	0.024** (0.009)	0.104** (0.021)
Judicial review	-0.021 (0.028)	-0.313** (0.067)
Altered precedent	0.082 (0.046)	-0.038 (0.116)
Ideological accommodation	-0.004 (0.023)	0.841** (0.030)
Author age	-0.014 (0.011)	-0.016 (0.028)
Chief justice author	0.126* (0.054)	0.482** (0.131)
Year	0.017 (0.011)	0.010 (0.028)
Word count	-0.002** (0.0004)	-0.013** (0.001)
Dissent disagreeability	0.561** (0.012)	0.418** (0.098)
Author-fixed effects?	Yes	Yes
R ²	0.407	0.249
F-Stat	90.28	50.79
N	6642	6642

Note: 2-Stage Least Squares regression coefficients with standard errors. *p<.05, p<0.01.

Dissenting opinion negativity is measured using our approach for capturing opinion disagreeability, averaged across all dissents in a case. In cases without a dissent, we impute a dissent negativity value of "0," which allows us to preserve observations.

Table B5. Natural Court

	First Stage DV Opinion Disagreeability	Second Stage DV Coalition Size
Author personal importance	2.134** (0.104)	~
Coalition size	0.039 (0.024)	~
Disagreeable rhetoric	~	-0.417** (0.099)
Missing member	~	-0.709** (0.044)
Aggregate personal importance (all other justices)	2.174** (0.191)	-0.608 (0.361)
Issue area (civil rights or liberties)	0.253** (0.020)	-0.146** (0.054)
Special concurrences	0.020 (0.012)	0.328** (0.018)
Regular concurrences	0.022* (0.010)	0.088** (0.020)
Judicial review	0.009 (0.032)	-0.340** (0.064)
Altered precedent	0.095 (0.054)	-0.055 (0.111)
Ideological accommodation	-0.090** (0.030)	1.082** (0.032)
Author age	-0.001 (0.001)	-0.006 (0.027)
Chief justice author	0.023 (0.025)	0.187 (0.136)
Year	0.011* (0.005)	-0.053 (0.029)
Word count	-0.002** (0.0004)	-0.012** (0.001)
Author-fixed effects?	Yes	Yes
Natural court-fixed effects	Yes	Yes
R ²	0.192	0.317
F-Stat	39.52	40.95
N	6642	6642

Note: 2-Stage Least Squares regression coefficients with standard errors. *p<.05, p<0.01.