Regression Outputs

	Base (Step-wise)	Base (Genetic)	Homophily_sex (Step-wise)	Homophily_sex (Genetic)	Limited time (Step-wise)	Limited time (Genetic)	Variation (Step-wise)	Variation (Genetic)
				Dependent variable: homogamy				
Constant	0.39** (0.18)	−0.91*** (0.14)	1,496.90*** (276.96)	−99.44*** (24.71)	432.32** (202.19)	2.58** (1.24)	49.91*** (9.54)	3.80*** (0.46)
$(d > 1)$	0.36*** (0.02)	0.37*** (0.02)	−0.02 (0.05)	−0.02 (0.06)	0.89*** (0.18)	0.73*** (0.22)	0.01 (0.04)	−0.06 (0.07)
d	−0.002 (0.01)	−0.01 (0.01)	−0.09* (0.05)	−0.01 (0.02)	0.28*** (0.10)	0.30*** (0.10)	−0.005 (0.03)	−0.01 (0.05)
d^2	−0.004 (0.002)							−0.05 (0.05)
d^3	0.001** (0.0003)			−0.001 (0.002)			0.004*** (0.001)	0.02 (0.01)
d^4		0.0000*** (0.0000)		0.0002 (0.0003)		0.0000 (0.0000)	−0.0005** (0.0002)	−0.001 (0.001)
homophily	−6.06*** (1.05)	4.04*** (0.31)	−7,070*** (1,235.37)	307*** (72.19)	−1,980** (898.73)	−1.62 (1.97)	−264*** (48.85)	−6.59*** (1.04)
homophily^2	24.29*** (2.49)		12,014.66*** (2,065.90)	−254.35*** (59.15)	3,393.51** (1,495.36)		523.53*** (92.47)	3.47*** (0.62)
homophily^3	−31.15*** (2.56)	−6.68*** (0.49)	−9,053.55*** (1,532.39)		−2,575.23** (1,103.77)		−452.29*** (76.80)	
homophily^4	13.51*** (0.95)	4.69*** (0.30)	2,554.37*** (425.47)	52.20*** (11.73)	731.41** (304.97)	0.75 (0.87)	144.70*** (23.65)	
density	−1.17*** (0.22)	−1.62*** (0.19)	−7.34 (6.05)	3.29 (3.00)	−0.82* (0.42)	−5.26** (2.27)	−0.71* (0.39)	−4.23** (1.75)
density^2	1.29*** (0.43)		34.31** (16.38)					
density^3	−2.38*** (0.60)		−58.90*** (21.36)	−3.63* (2.07)				98.57** (41.61)
density^4	1.19*** (0.33)		33.60*** (10.24)	3.91** (1.77)		0.11 (0.23)		−276.54** (122.14)
clustering	0.46** (0.19)	1.40*** (0.19)	56.65*** (8.70)	−16.27*** (3.62)	−0.41 (0.34)	0.85 (0.67)	0.20* (0.12)	0.22* (0.12)
clustering^2			−179.95*** (24.15)	8.33*** (2.57)				
clustering^3			242.25*** (30.66)					
clustering^4		−0.14*** (0.05)	−119.89*** (14.26)	−5.99*** (1.44)		−0.50 (0.49)		
diameter			0.00** (0.00)					

diameter^3				−0.00*** (0.00)				
diameter^4		−0.00*** (0.00)						
s_p_median	−0.00*** (0.00)						−0.00*** (0.00)	
s_p_median^2								−0.00*** (0.00)
s_p_median^3				−0.00 (0.00)				
s_p_median^4		−0.00*** (0.00)				0.00 (0.00)		
connected1	0.11*** (0.04)				−0.60** (0.26)	−0.84*** (0.31)	−0.04 (0.04)	−0.11*** (0.03)
n	−0.0004** (0.0001)	−0.0003** (0.0002)	0.002 (0.001)	−0.0003 (0.0004)	−0.001*** (0.0001)	−0.001*** (0.0001)	−0.004*** (0.001)	0.001*** (0.0004)
n^2			−0.0000* (0.0000)				0.0001*** (0.0000)	
n^3			0.0000* (0.0000)	−0.00 (0.0000)			−0.0000*** (0.0000)	−0.00 (0.00)
n^4		−0.00 (0.00)	−0.00 (0.00)	0.00 (0.00)			0.00*** (0.00)	
μ	−0.51*** (0.05)	1.28*** (0.01)	−0.03** (0.02)	−0.02 (0.02)	−0.92*** (0.22)	1.06*** (0.16)	−0.06 (0.19)	0.78*** (0.06)
μ^2	6.66*** (0.19)	−1.28*** (0.01)			6.62*** (0.65)	−1.36*** (0.11)	3.44*** (0.51)	−0.84*** (0.08)
μ^3	−12.35*** (0.28)				−12.07*** (0.97)		−6.49*** (0.76)	
μ^4	6.21*** (0.14)			−0.01 (0.02)	6.06*** (0.48)	0.12* (0.06)	3.16*** (0.38)	−0.03 (0.05)
λ	−0.52*** (0.06)	−0.58*** (0.06)		−1.35*** (0.50)	3.32*** (0.69)	0.13 (0.23)	−0.16 (0.40)	−1.63*** (0.14)
λ^2					−1.94*** (0.24)		−2.64*** (0.73)	
λ^3	−1.37*** (0.08)	−1.26*** (0.08)		0.02 (0.02)			3.42*** (1.06)	
λ^4	1.41*** (0.06)	1.35*** (0.06)			1.20*** (0.13)		−1.37*** (0.52)	
homophily_sex			277.68*** (69.87)	−0.97 (2.78)				
homophily_sex^2			−516.08*** (127.63)	2.44*** (0.74)				
homophily_sex^3			420.22***					

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			(103.26)					
homophily_sex^4			−126.62*** (31.18)					
max_time					−0.08 (0.06)	−0.11*** (0.01)		
max_time^2					−0.03*** (0.01)			
max_time^3					0.01*** (0.002)	0.001*** (0.0002)		
max_time^4					−0.0003*** (0.0001)	−0.0001*** (0.0000)		
κ							0.33*** (0.09)	0.15** (0.07)
κ^2							−0.62*** (0.12)	−0.22*** (0.03)
κ^3							0.37*** (0.09)	0.06*** (0.01)
κ^4							−0.08*** (0.02)	
$(d>1) \times d$					0.05*** (0.02)	0.05*** (0.02)		0.05 (0.05)
$(d>1) \times$ homophily	−0.54*** (0.02)	−0.50*** (0.03)			−1.04*** (0.19)	−0.99*** (0.20)		
$(d>1) \times$ density	−0.21*** (0.03)	−0.22*** (0.03)	−0.15* (0.08)				0.71*** (0.23)	0.79*** (0.23)
$(d>1) \times$ clustering	0.46*** (0.03)	0.49*** (0.03)	−0.33** (0.15)					
$(d>1) \times$ diameter	0.00*** (0.00)							
$(d>1) \times$ s_p_median	0.00*** (0.00)	0.00*** (0.00)						0.00*** (0.00)
$(d>1) \times$ connected1		−0.04*** (0.01)				0.11 (0.10)		
$(d>1) \times$ n	0.0005*** (0.0000)	0.0005*** (0.0000)	−0.0003** (0.0001)	−0.0003** (0.0001)	0.001*** (0.0001)	0.001*** (0.0001)	−0.0003*** (0.0001)	−0.0003** (0.0001)
$(d>1) \times \mu$			0.04** (0.02)	0.04* (0.02)				
$(d>1) \times \lambda$	−0.08*** (0.01)	−0.08*** (0.01)			−0.08*** (0.03)	−0.08*** (0.03)	−0.09*** (0.02)	−0.08*** (0.02)
$(d>1) \times$ homophily_sex			0.27** (0.11)	0.11* (0.07)				
$(d>1) \times \kappa$							−0.04*** (0.01)	−0.04*** (0.01)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
$d \times$ homophily		−0.01**	0.09*		−0.43***	−0.46***	−0.08**	
		(0.01)	(0.05)		(0.15)	(0.15)	(0.04)	
$d \times$ density				0.03	−0.08**	−0.08*	0.25***	0.09
				(0.02)	(0.04)	(0.04)	(0.09)	(0.07)
$d \times$ clustering	0.01***				0.31***	0.32***		
	(0.003)				(0.08)	(0.08)		
$d \times$ diameter	−0.00***							
	(0.00)							
$d \times$ s_p_median	0.00***	0.00***		0.00			0.00***	
	(0.00)	(0.00)		(0.00)			(0.00)	
$d \times$ connected1		0.01***						
		(0.002)						
$d \times$ n	0.0000***	0.0000***	0.0001*	0.0001*			0.0001***	0.0001***
	(0.0000)	(0.0000)	(0.0000)	(0.0000)			(0.0000)	(0.0000)
$d \times \lambda$	−0.01**	−0.01**			0.02***	0.02***	−0.03***	−0.03***
	(0.002)	(0.002)			(0.01)	(0.01)	(0.01)	(0.01)
$d \times \mu$							−0.01**	−0.01**
							(0.004)	(0.004)
$d \times$ max_time					−0.01***	−0.01***		
					(0.001)	(0.001)		
$d \times \kappa$							−0.01***	−0.01***
							(0.003)	(0.003)
homophily× density	1.16***	1.91***	−6.16**	−3.95		4.18		2.37
	(0.19)	(0.19)	(2.64)	(3.15)		(2.84)		(2.13)
homophily× clustering	−1.27***	−1.81***		10.08***				
	(0.19)	(0.19)		(2.99)				
homophily× diameter	0.00***		−0.00***					
	(0.00)		(0.00)					
homophily× s_p_median		0.00						0.00***
		(0.00)						(0.00)
homophily× connected1		−0.22***						
		(0.04)						
homophily×n	−0.0002	−0.0002						
	(0.0001)	(0.0001)						
homophily× μ							−0.31	
							(0.21)	
homophily× λ	0.52***	0.53***		1.42***	−2.45***		1.00***	1.92***
	(0.05)	(0.05)		(0.53)	(0.56)		(0.28)	(0.15)
homophily× homophily_sex				−6.40**				
				(2.65)				
homophily× max_time					0.14*			
					(0.08)			
homophily× κ							0.35***	0.35***
							(0.10)	(0.10)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
density× clustering	0.56*** (0.13)	0.41*** (0.08)	7.89*** (1.41)			−0.54 (1.70)		
density× diameter	−0.00*** (0.00)	−0.00*** (0.00)						
density× λ	0.49*** (0.06)	0.52*** (0.06)		−0.48** (0.19)		1.41*** (0.16)		
density× n	0.002*** (0.0003)	0.002*** (0.0003)					0.01*** (0.002)	0.01** (0.002)
density× homophily_sex			1.60* (0.84)	2.12** (0.82)				
density× s_p_median		0.00 (0.00)						
density× μ							1.28*** (0.44)	0.71*** (0.24)
density× connected1					0.77** (0.39)	0.86** (0.44)		
density× max_time					0.11*** (0.02)	0.12*** (0.01)		
density× κ							−1.01*** (0.20)	−1.02*** (0.20)
clustering × diameter	0.00*** (0.00)		0.00*** (0.00)	0.00*** (0.00)				
clustering × s_p_median	0.00*** (0.00)	0.00*** (0.00)						
clustering × connected1		−0.31*** (0.05)					0.50*** (0.16)	0.43*** (0.15)
clustering × n	−0.001*** (0.0003)	−0.002*** (0.0003)	0.002** (0.001)	0.002*** (0.001)			−0.01** (0.003)	−0.01*** (0.003)
clustering × μ		0.01 (0.01)						
clustering × λ	−0.52*** (0.06)	−0.55*** (0.06)				−1.79*** (0.41)	−0.36* (0.18)	−0.48*** (0.18)
clustering × homophily_sex			−2.72** (1.33)	1.62 (1.40)				
clustering × max_time					−0.09* (0.05)			
diameter× s_p_median								
diameter × connected1	−0.01*** (0.001)	−0.005*** (0.001)					−0.01** (0.004)	
diameter × n	−0.00*** (0.00)	−0.00*** (0.00)						
diameter × μ			0.00*					−0.00

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			(0.00)					(0.00)
diameter × λ	0.00***	0.00***						−0.00**
	(0.00)	(0.00)						(0.00)
diameter × homophily_sex				0.00**				
				(0.00)				
diameter × κ								−0.00
								(0.00)
s_p_median × connected1	0.01***	0.01***						
	(0.003)	(0.003)						
s_p_median × n	0.00**	0.00					0.00***	0.00***
	(0.00)	(0.00)					(0.00)	(0.00)
s_p_median × λ	0.00***	0.00***		0.00			0.00	
	(0.00)	(0.00)		(0.00)			(0.00)	
s_p_median × homophily_sex				0.00				
				(0.00)				
s_p_median × κ							−0.00***	−0.00***
							(0.00)	(0.00)
connected1×n							−0.0004*	
							(0.0003)	
connected1× μ					0.27*	0.15		
					(0.15)	(0.14)		
connected1× λ					−0.21		0.04**	
					(0.13)		(0.02)	
connected1× κ								
n× μ					0.0003**	0.0003**	0.0004***	
					(0.0001)	(0.0001)	(0.0001)	
n× λ	−0.0003***	−0.0003***			−0.0005***		−0.0004***	−0.0005***
	(0.0000)	(0.0000)			(0.0001)		(0.0001)	(0.0001)
n×homophily_sex			−0.001*	−0.001*				
			(0.001)	(0.001)				
λ × μ					0.04	0.04*		
					(0.03)	(0.03)		
λ × homophily_sex			0.24*					
			(0.13)					
κ ×n							−0.0001**	−0.0001*
							(0.0001)	(0.0001)
κ × λ							−0.09***	−0.09***
							(0.01)	(0.01)
Observations	96,526	96,526	9,666	9,666	9,488	9,488	9,689	9,689
R^2	0.47	0.46	0.35	0.34	0.44	0.43	0.43	0.42
Adjusted R^2	0.47	0.46	0.35	0.34	0.44	0.43	0.43	0.42

Note: *p<0.1; **p<0.05; ***p<0.01