

Article Title: People of color experience reduced access to pollinators along an urban-rural gradient

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Author Names: Lauren R. Lynch and James R. Miller

Corresponding Author: Lauren R. Lynch, University of Illinois at Urbana-Champaign,
lrlynch2@illinois.edu

Complete AIC_c tables associated with analyses. Tables S.1-S.11 show the results of the first round of AIC_c analysis, which was used to select weather and site-related covariates for each model. Tables-S.12-S.18 show the results of the second round of AIC_c analysis, which was used to consider the relationships between race, income, urbanization, and pollinator abundance.

Table S.1. Results from first round of AIC_c used to select covariates for models with beetle abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Temperature	4	0.00	0.99	0.99	-533.07
Wind	4	12.51	0.00	1.00	-539.34
Null	3	13.16	0.00	1.00	-540.68
Site Area	4	14.20	0.00	1.00	-540.17
Day	4	14.63	0.00	1.00	-540.39
Cloud Cover	4	15.21	0.00	1.00	-540.68

Table S.2. Results from first round of AIC_c used to select covariates for models with fly abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Temperature	4	0.00	0.49	0.49	-537.99
Day	4	1.32	0.25	0.74	-538.65
Null	3	2.93	0.11	0.86	-540.48
Site Area	4	4.42	0.05	0.91	-540.20
Wind	4	5.60	0.05	0.96	-540.29
Cloud Cover	4	4.96	0.04	1.00	-540.47

Table S.3. Results from first round of AIC_c used to select covariates for models with true bug abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Null	3	0.00	0.30	0.30	-312.62
Day	4	0.89	0.20	0.50	-312.04
Cloud Cover	4	1.51	0.14	0.64	-312.35
Wind	4	1.71	0.13	0.77	-312.45
Temperature	4	1.95	0.11	0.89	-312.57
Site Area	4	1.97	0.11	1.00	-312.58

Table S.4. Results from first round of AIC_c used to select covariates for models with wasp abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Day	4	0.00	0.48	0.48	-524.94
Null	3	2.07	0.17	0.64	-527.01
Site Area	4	2.73	0.12	0.77	-526.31
Cloud Cover	4	3.28	0.09	0.86	-526.58
Temperature	4	3.71	0.07	0.93	-526.80
Wind	4	3.91	0.07	1.00	-526.90

Table S.5. Results from first round of AIC_c used to select covariates for models with lepidoptera abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Day	4	0.00	0.93	0.93	-447.93
Temperature	4	5.22	0.07	1.00	-450.54
Null	3	12.41	0.00	1.00	-455.17
Site Area	4	13.70	0.00	1.00	-454.78
Cloud Cover	4	14.11	0.00	1.00	-454.98
Wind	4	14.30	0.00	1.00	-455.08

Table S.6. Results from first round of AIC_c used to select covariates for models with bee abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Temperature	4	0.00	0.86	0.86	-537.85
Cloud Cover	4	5.49	0.06	0.92	-540.59
Null	3	6.97	0.03	0.95	-542.36
Day	4	7.28	0.02	0.97	-541.49
Site Area	4	7.70	0.02	0.99	-541.70
Wind	4	8.55	0.01	1.00	-542.12

Table S.7. Results from first round of AIC_c used to select covariates for models with total pollinator abundance as the dependent variable that use the full data set

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Temperature	4	0.00	0.99	0.99	-591.54
Cloud Cover	4	12.41	0.00	1.00	-597.75
Day	4	12.56	0.00	1.00	-597.83
Null	3	13.39	0.00	1.00	-599.27
Wind	4	15.24	0.00	1.00	-599.16
Site Area	4	15.43	0.00	1.00	-599.26

Table S.8. Results from first round of AIC_C used to select covariates for models with fly abundance as the dependent variable that use the data set including only sites zoned by the HOLC

Model	K	Delta AIC _C	AIC _C Weight	Cumulative Weight	LL
Null	3	0.00	0.30	0.30	-79.76
Cloud Cover	4	1.09	0.17	0.48	-79.08
Temperature	4	1.72	0.13	0.60	-79.39
Wind	4	1.84	0.12	0.72	-79.46
Urbanization	4	2.25	0.10	0.82	-79.66
Day	4	2.41	0.09	0.91	-79.74
Site Area	4	2.44	0.09	1.00	-79.76

Table S.9. Results from first round of AIC_C used to select covariates for models with lepidoptera abundance as the dependent variable that use the data set including only sites zoned by the HOLC

Model	K	Delta AIC _C	AIC _C Weight	Cumulative Weight	LL
Temperature	4	0.00	0.37	0.37	-52.90
Urbanization	4	0.46	0.30	0.66	-53.13
Null	3	2.39	0.11	0.78	-55.32
Wind	4	2.93	0.09	0.87	-54.37
Cloud Cover	4	3.81	0.06	0.92	-54.81
Day	4	4.41	0.04	0.97	-55.11
Site Area	4	4.74	0.03	1.00	-55.27

Table S.10. Results from first round of AIC_C used to select covariates for models with bee abundance as the dependent variable that use the data set including only sites zoned by the HOLC

Model	K	Delta AIC _C	AIC _C Weight	Cumulative Weight	LL
Temperature	4	0.00	0.28	0.28	-84.38
Urbanization	4	0.53	0.22	0.50	-84.64
Null	3	0.72	0.20	0.70	-85.97
Cloud Cover	4	1.90	0.11	0.81	-85.34
Site Area	4	2.86	0.07	0.87	-85.81
Day	4	2.91	0.07	0.94	-85.84
Wind	4	3.13	0.06	1.00	-85.95

Table S.11. Results from first round of AIC_C used to select covariates for models with lepidoptera abundance as the dependent variable that use the data set including only sites zoned by the HOLC

Model	K	Delta AIC _C	AIC _C Weight	Cumulative Weight	LL
Temperature	4	0.00	0.65	0.65	-90.17
Null	3	3.25	0.13	0.78	-93.02
Cloud Cover	4	5.20	0.05	0.83	-92.77
Urbanization	4	5.37	0.04	0.87	-92.86
Wind	4	5.39	0.04	0.91	-92.87
Site Area	4	5.52	0.04	0.96	-92.93
Day	4	5.54	0.04	1.00	-92.94

Table S.12. AIC_C results from models describing relationships between race, income, urbanization, and beetle abundance

Model	K	Delta AIC _C	AIC _C Weight	Cumulative Weight	LL
Race	5	0.00	0.24	0.24	-528.58
Race+Urbanization	6	0.85	0.15	0.39	-527.96
Race*Urbanization	7	1.10	0.14	0.52	-527.03
Income+Race	6	1.54	0.11	0.63	-528.31
Urbanization	5	2.07	0.08	0.72	-529.62
Income*Urbanization+Race	8	2.34	0.07	0.79	-526.59
Income+Race+Urbanization	7	2.46	0.07	0.86	-527.71
Race*Urbanization+Income	8	2.99	0.05	0.91	-526.92
Income*Urbanization+Race*Urbanization	9	3.71	0.04	0.95	-526.21
Income+Urbanization	6	4.15	0.03	0.98	-529.61
Income*Urbanization	7	5.96	0.01	0.99	-529.46
Null	4	6.91	0.01	1.00	-533.07
Income	5	8.86	0.00	1.00	-533.01

Table S.13. AIC_C results from models describing relationships between race, income, urbanization, and fly abundance

Model	K	Delta AIC _C	AIC _C Weight	Cumulative Weight	LL
Race+Urbanization	7	0.00	0.15	0.15	-534.86
Income*Urbanization	8	0.47	0.12	0.27	-534.03
Income+Race+Urbanization	8	0.98	0.09	0.37	-534.29
Null	5	1.06	0.09	0.46	-537.49
Income	6	1.07	0.09	0.55	-536.45
Race*Urbanization	8	1.38	0.08	0.63	-534.49
Income+Urbanization	7	1.39	0.08	0.70	-535.55
Race	6	1.66	0.07	0.77	-536.75
Income*Urbanization+Race	9	1.71	0.07	0.84	-533.58
Urbanization	6	2.06	0.05	0.89	-536.94
Race*Urbanization+Income	9	2.58	0.04	0.93	-534.02
Income+Race	7	2.62	0.04	0.97	-536.17
Income*Urbanization+Race*Urbanization	10	3.55	0.03	1.00	-533.42

Table S.14. AIC_c results from models describing relationships between race, income, urbanization, and true bug abundance

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Race+Urbanization	5	0.00	0.23	0.23	-309.50
Race	4	0.09	0.22	0.46	-310.59
Race*Urbanization	6	1.88	0.09	0.55	-309.39
Income+Race+Urbanization	6	1.95	0.09	0.64	-309.43
Income+Race	5	1.98	0.09	0.73	-310.49
Null	3	2.10	0.08	0.81	-312.62
Income	4	2.92	0.05	0.86	-312.00
Race*Urbanization+Income	7	3.89	0.03	0.90	-309.35
Income*Urbanization+Race	7	3.96	0.03	0.93	-309.38
Urbanization	4	4.13	0.03	0.96	-312.60
Income+Urbanization	5	4.86	0.02	0.98	-311.93
Income*Urbanization+Race*Urbanization	8	5.86	0.01	0.99	-309.27
Income*Urbanization	6	6.54	0.01	1.00	-311.73

Table S.15. AIC_c results from models describing relationships between race, income, urbanization, and wasp abundance

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Race*Urbanization	7	0.00	0.40	0.40	-519.87
Race*Urbanization+Income	8	2.10	0.14	0.55	-519.86
Race+Urbanization	6	2.68	0.11	0.65	-522.27
Income*Urbanization+Race*Urbanization	9	3.80	0.06	0.71	-519.64
Null	4	3.87	0.06	0.77	-524.94
Urbanization	5	4.29	0.05	0.82	-524.12
Income+Race+Urbanization	7	4.76	0.04	0.86	-522.25
Income*Urbanization	7	4.89	0.04	0.89	-522.31
Race	5	5.25	0.03	0.92	-524.60
Income*Urbanization+Race	8	5.56	0.03	0.94	-521.59
Income	5	5.73	0.02	0.97	-524.84
Income+Urbanization	6	5.82	0.02	0.99	-523.84
Income+Race	6	7.31	0.01	1.00	-524.58

Table S.16. AIC_c results from models describing relationships between race, income, urbanization, and lepidoptera abundance

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Income+Race	7	0.00	0.21	0.21	-429.59
Null	5	0.73	0.15	0.36	-432.06
Race	6	0.91	0.13	0.49	-431.10
Income	6	1.76	0.09	0.58	-431.52
Income+Race+Urbanization	8	2.12	0.07	0.66	-429.59
Urbanization	6	2.32	0.07	0.72	-431.80
Race*Urbanization+Income	9	2.45	0.06	0.78	-428.68
Race*Urbanization	8	2.83	0.05	0.84	-429.94
Income+Urbanization	7	2.95	0.05	0.88	-431.06
Race+Urbanization	7	3.01	0.05	0.93	-431.10
Income*Urbanization+Race	9	4.26	0.03	0.96	-429.59
Income*Urbanization	8	4.53	0.02	0.98	-430.79
Income*Urbanization+Race*Urbanization	10	4.55	0.02	1.00	-428.65

Table S.17. AIC_c results from models describing relationships between race, income, urbanization, and bee abundance

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Null	4	0.00	0.23	0.23	-537.85
Race	5	0.77	0.16	0.39	-537.20
Income+Race	6	1.54	0.11	0.49	-536.53
Income	5	1.66	0.10	0.59	-537.64
Urbanization	5	1.80	0.09	0.69	-537.71
Race+Urbanization	6	2.84	0.06	0.74	-537.19
Income*Urbanization	7	3.05	0.05	0.79	-536.23
Race*Urbanization	7	3.25	0.05	0.84	-536.33
Income+Urbanization	6	3.31	0.04	0.88	-537.42
Race*Urbanization+Income	8	3.51	0.04	0.92	-535.40
Income+Race+Urbanization	7	3.63	0.04	0.96	-536.52
Income*Urbanization+Race	8	4.15	0.02	0.98	-535.90
Income*Urbanization+Race*Urbanization	9	5.01	0.02	1.00	-535.08

Table S.18. AIC_c results from models describing relationships between race, income, urbanization, and pollinator abundance

Model	K	Delta AIC _c	AIC _c Weight	Cumulative Weight	LL
Income+Race	6	0.00	0.22	0.22	-588.32
Race	5	0.37	0.18	0.40	-589.55
Income+Race+Urbanization	7	1.21	0.12	0.51	-587.87
Race+Urbanization	6	1.59	0.10	0.61	-589.11
Income*Urbanization+Race	8	1.67	0.09	0.71	-587.04
Null	4	2.29	0.07	0.77	-591.54
Income*Urbanization	7	3.12	0.05	0.82	-588.82
Race*Urbanization+Income	8	3.32	0.04	0.86	-587.86
Race*Urbanization	7	3.57	0.04	0.90	-589.05
Income*Urbanization+Race*Urbanization	9	3.68	0.03	0.93	-586.97
Income	5	3.90	0.03	0.96	-591.31
Urbanization	5	4.29	0.03	0.99	-591.50
Income+Urbanization	6	5.81	0.01	1.00	-591.22