

Table 2. Results of the generalized linear models predicting self-reported past-year mating success in A) men and B) women in the courtship and competitive contexts. For each factor, the estimate, standard error of the mean (SE), the  $\chi^2$  and the  $p$  values associated from the likelihood ratio test of the comparison between the full model and the model without the factor are given. For the categorical variable “relationship status”, the estimates are given for one category compared to the reference category (underlined term; “yes” refer to individuals in a current relationship at the moment of the study).  $R^2$  is the variance explained by the model. Significance code: ‘\*\*\*’  $p < 0.001$ ; ‘\*\*’  $p < 0.01$ ; ‘\*’  $p < 0.05$ .

A.

<b>Predicting past-year mating success (courtship recording)</b>				
$R^2 = 0.14$	Estimate	SE	$\chi^2$	$p$ value
Intercept	0.45	0.18	/	/
Mean F0	-0.41	0.18	3.02	0.08
F0-SD	0.20	0.19	1.04	0.30
Jitter	-0.44	0.22	2.75	0.09
HNR	-0.01	0.18	0.02	0.87
Speaking rate	-0.18	0.14	1.66	0.19
Articulation rate	0.34	0.15	5.19	<b>0.02*</b>
Intensity	0.37	0.14	6.76	<b>0.009**</b>
Speech duration	-0.26	0.17	2.46	0.11
Mean F0 : jitter	0.04	0.19	0.04	0.82
Mean F0 : HNR	0.23	0.13	3.26	0.07
F0-SD : jitter	-0.62	0.29	4.96	<b>0.02*</b>
F0-SD : HNR	-0.42	0.20	4.55	<b>0.03*</b>
Age	-0.008	0.04	0.03	0.84

Relationship status Yes/ <u>No</u>	0.043	0.31	0.02	0.89
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**Predicting past-year mating success (competitive recording)**

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R <sup>2</sup> = -0.12	Estimate	SE	$\chi^2$	<i>p</i> value
Intercept	0.64	0.18	/	/
Mean F0	-0.18	0.20	0.28	0.59
F0-SD	0.12	0.22	0.29	0.58
Jitter	-0.14	0.20	0.08	0.76
HNR	0.07	0.19	0.11	0.73
Speaking rate	-0.12	0.21	0.34	0.55
Articulation rate	0.10	0.18	0.37	0.54
Intensity	0.07	0.15	0.21	0.64
Speech duration	-0.38	0.25	2.99	0.08
Mean F0 : jitter	-0.17	0.28	0.39	0.53
Mean F0 : HNR	0.09	0.21	0.18	0.66
F0-SD : jitter	0.03	0.35	0.008	0.92
F0-SD : HNR	-0.04	0.22	0.03	0.85
Age	0.01	0.04	0.08	0.77
Relationship status Yes/ <u>No</u>	-0.33	0.40	0.72	0.39

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B.

**Predicting past-year mating success (courtship recording)**

R <sup>2</sup> = 0.26	Estimate	SE	$\chi^2$	<i>p</i> value
Intercept	0.53	0.15	/	/
Mean F0	0.16	0.15	0.37	0.54
F0-SD	-0.13	0.13	0.82	0.36
Jitter	0.05	0.33	1.14	0.28
HNR	-0.43	0.12	14.68	<b>0.0001***</b>
Speaking rate	-0.02	0.13	0.03	0.86
Articulation rate	0.02	0.14	0.02	0.87
Speech duration	-0.31	0.11	7.45	<b>0.006**</b>
Intensity	-0.06	0.11	0.35	0.55
Mean F0 : jitter	0.26	0.29	0.81	0.36
Mean F0 : HNR	-0.01	0.16	0.009	0.92
F0-SD : jitter	-0.22	0.23	0.94	0.33
F0-SD : HNR	-0.14	0.09	2.42	0.12
Age	0.12	0.09	1.66	0.19
Relationship status Yes/ <u>No</u>	-0.18	0.23	0.68	0.40

**Predicting past-year mating success (competitive recording)**

R <sup>2</sup> = 0.06	Estimate	SE	$\chi^2$	<i>p</i> value
Intercept	0.50	0.15	/	/
Mean F0	-0.02	0.13	0.05	0.82
F0-SD	-0.12	0.13	0.76	0.38
Jitter	-0.013	0.18	0.08	0.77
HNR	-0.31	0.18	2.89	0.09
Speaking rate	-0.14	0.13	1.04	0.31
Articulation rate	-0.02	0.14	0.01	0.89
Intensity	0.10	0.13	0.61	0.43
Speech duration	-0.01	0.13	0.01	0.90
Mean F0 : jitter	0.07	0.17	0.19	0.65
Mean F0 : HNR	-0.007	0.15	0.002	0.95
F0-SD : jitter	-0.24	0.18	1.86	0.17
F0-SD : HNR	-0.04	0.22	2.86	0.09
Age	0.22	0.10	4.46	<b>0.03*</b>
Relationship status Yes/ <u>No</u>	-0.02	0.26	0.008	0.92