

# Understanding Language Evolution Using an Event-Based Model

**David M. Goldstein<sup>1,+</sup>, Shawn H. McCreight<sup>2,+</sup> and John P. Huelsenbeck<sup>3,+</sup>**

<sup>1</sup> Department of Linguistics

[dgoldstein@humnet.ucla.edu](mailto:dgoldstein@humnet.ucla.edu)

<sup>2</sup> Nytril LLC, 3060 San Pasqual St., Pasadena, CA 91107, USA

[shawn.mccreight@gmail.com](mailto:shawn.mccreight@gmail.com)

<sup>3</sup> Department of Integrative Biology

[johnh@berkeley.edu](mailto:johnh@berkeley.edu)

<sup>+</sup> these authors contributed equally to this work



Letter	Frequency %
m	4.3
n	4.1
o	4.0
p	3.9
q	3.8
r	3.7
s	3.6
t	3.5
u	3.1
v	3.0
w	2.9
x	2.8
y	2.7
z	2.6
a	2.1
b	2.0
c	1.9
d	1.8
e	1.7
f	1.6
g	1.5
h	1.4
i	1.3
j	1.2
k	1.1
l	1.0
...	...
y	0.4
z	0.05