

Abstract Submitted  
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**An Interspecific Comparison of Fruitfly Flight** GORDON  
BERMAN, Z. JANE WANG, Cornell University — There has been much interest  
in studying how aspects of animal locomotion are affected by variation in organism  
size and morphology. In the case of insect flight, we are particularly interested in  
how the mechanisms of lift production and the energy efficiency of flight are af-  
fected by size and wing-structure. Here, we analyze 3D free-flight data of fruitflies  
to study differences in flight performance between species of varying morphology in  
both wild-types and mutants.

Gordon Berman  
Cornell University

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