Brown University engineers and biologists have joined forces to record details of bat flight. The articulated bone structure and soft membrane of bats' wings give them maneuverability that is superior to birds, making bats potential models for small air vehicles. To better understand the complex aerodynamics involved, scientists recorded bats in a wind tunnel with multiple high-speed video cameras. In addition, they captured the motion of the air particles left behind to reveal the airflow around the wings.





wings closer to the body than birds.

forward during downstroke.

created by studying the airflow bat wings leave behind.

Mika Gröndahl/The New York Times