

Angela M. Berg

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EDUCATION

Harvard University, Cambridge, MA
Pursuing Ph.D. in Biomechanics.
Advised by Andrew A. Biewener.

2004 – present
Expected graduation, May 2010

Duke University, Durham, NC
Graduated *cum laude* with BS in Biology.

2000-2004

DOCTORAL RESEARCH

MUSCLE FUNCTION, KINEMATICS, AND AERODYNAMICS IN ANGLED AND ACCELERATING AVIAN FLIGHT

Kinematics and power requirements of ascending and descending flight

Published in *The Journal of Experimental Biology* (2008) 211:1120-1130. 2008
Presented at the Annual Meeting of the Society for Integrative and Comparative Biology 2006
and at the Annual Meeting of the Society for Experimental Biology. 2005

Muscle function during takeoff, landing, and mid-flight

Presented at the Annual Meeting of the Society for Integrative and Comparative Biology 2008
and at the Annual Meeting of the Society for Experimental Biology. 2008

Flight kinematics and aerodynamics during takeoff and landing

Presented at the Annual Meeting of the Society for Experimental Biology. 2009

Aerodynamic variation with bird size and flight mode

Currently collecting digital particle image velocimetry data (DPIV) during take-off, landing,
and mid-flight of pigeons and doves.

Summary of thesis work presented at the NSF IGERT Project Meeting. 2008

TEACHING EXPERIENCE

Evolutionary Human Physiology and Anatomy 2008-2009
Teaching Fellow. Set up and led laboratory sessions in human biology.

The Human Organism 2009
Teaching Fellow. Led review sessions for non-majors.

Advanced Structure and Physiology of the Vertebrates 2007-2008
Mentor. Mentored students in projects on flight kinematics and muscle function.
Subsequently mentored one of these students in a senior thesis project.

Biology and Diversity of Birds 2007
Teaching Fellow. Set up and led anatomy- and collection-based laboratory sessions.
Prepared and presented lectures on several bird orders and avian biomechanics (also in 2009). Organized and helped lead class field trips to local sanctuaries and to Mexico.

TEACHING EXPERIENCE (CONT.)

Structure and Physiology of the Vertebrates

2005

Teaching Fellow. Set up and led laboratory sessions in comparative vertebrate anatomy.

FELLOWSHIPS AND AWARDS

Theodore H. Ashford Graduate Fellowship

2004-2008

IGERT Ph.D. Program in Biomechanics

2006-2008

Robert A. Chapman Memorial Scholarship

2006

James B. Rast Award for Comparative Organismal Biology

2004

NSF Graduate Research Fellowship Program, Honorable Mention

2004

Duke University Dean's List

2001-2003