

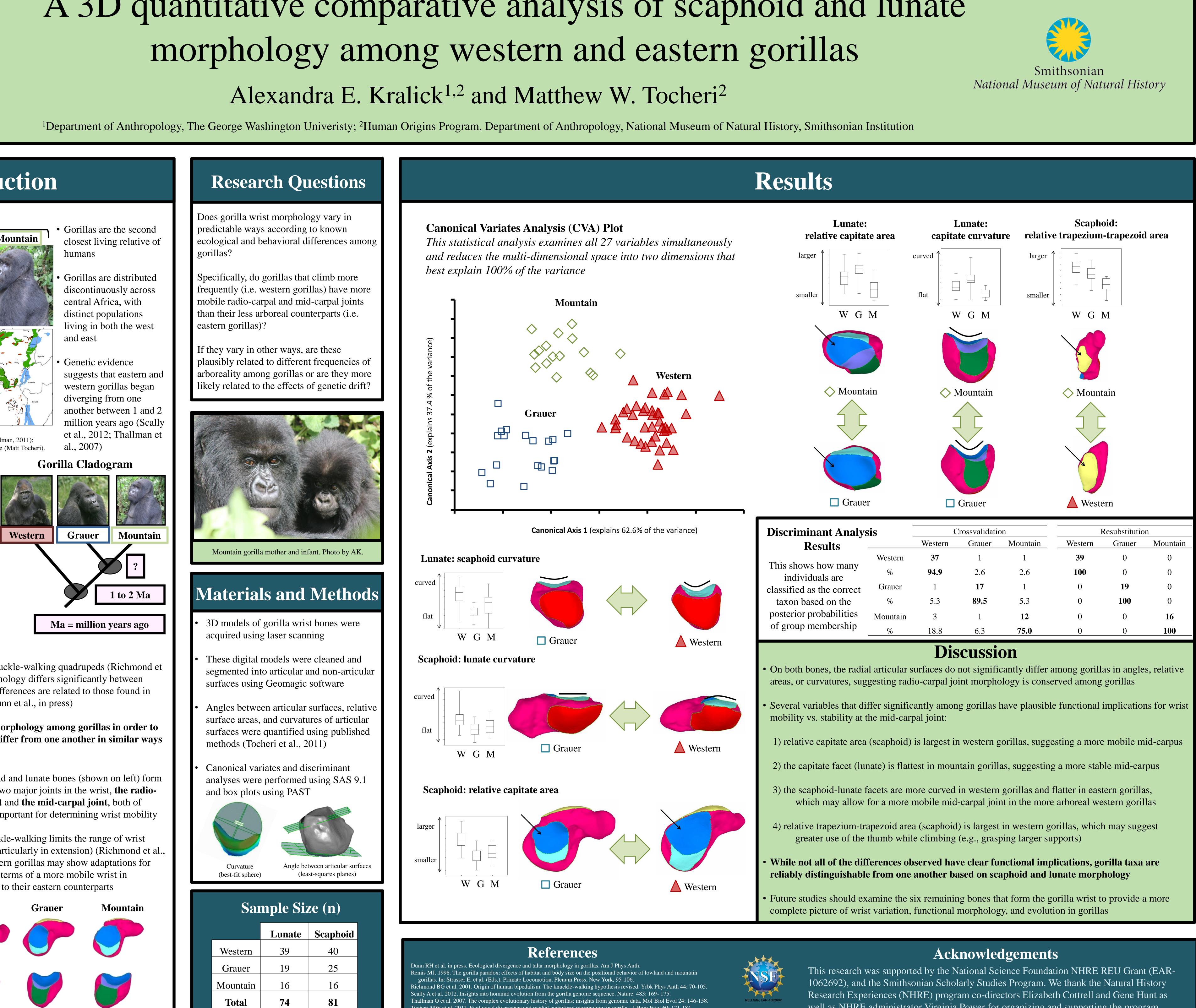
## **THE GEORGE** WASHINGTON **UNIVERSITY**



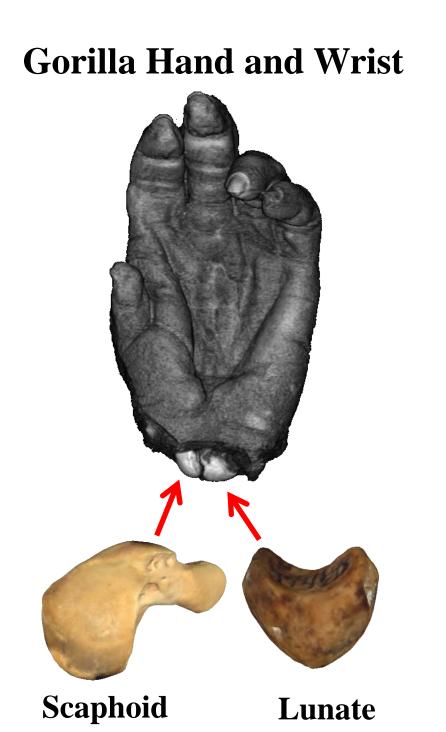
# Introduction **Gorilla Geography** Eastern Western Mountain Grauer KEY TO RANGE MAP Gorilla beringei Gorilla gorilla

Credits: Africa map (Redmond, 2008:160); eastern gorilla range map (Mehlman, 2011); western and grauer images (Rick Murphy, primateinfo.net); mountain image (Matt Tocheri).

- Eastern gorillas are divided into two subspecies: mountain (G. b. beringei) and grauer (G. b. graueri)
- Gorillas of western Africa (G. gorilla) differ behaviorally (e.g., more frugivorous, more arboreal) from those in eastern Africa (G. *beringei*) (e.g., more folivorous, less arboreal) (Remis, 1998)
- These behavioral differences are directly related to ecology, as western gorillas live in lowland habitats (< 1,000 m asl) (i.e., more fruits, more continuous forest) whereas eastern gorillas typically live in highland habitats (> 1,500 m asl) (Remis, 1998)



- Although all gorillas are mainly terrestrial knuckle-walking quadrupeds (Richmond et al., 2001), research has shown that foot morphology differs significantly between western and eastern gorillas, and that these differences are related to those found in climbing frequencies (Tocheri et al., 2011, Dunn et al., in press)
- Here for the first time, we examine wrist morphology among gorillas in order to test whether eastern and western gorillas differ from one another in similar ways as they do in their feet



- carpal joint and the mid-carpal joint, both of
- While knuckle-walking limits the range of wrist climbing in terms of a more mobile wrist in comparison to their eastern counterparts

