

Curriculum Vitae – Michael Brewer

Education

MS (Evolution and Ecology) at California State University Northridge, December 2004.

BS (Marine Biology) at California State University Northridge, June 2002.

Research Projects

Digital analysis of wing morphology of seabirds from Johnston Atoll. Traditional indices and planform shape were used to qualify variations in functional morphology as they relate to flight. Bird Species Included the Red-footed Booby (*Sula sula*), Brown Booby (*Sula leucogaster*), Masked Booby (*sula dactylatra*), Red-tailed Tropic Bird (*Phaethon rubricauda*), Great Frigatebird (*Fregato minor*).

Assisted in capture of sea birds located on Johnston Atoll. Project included banding chicks and adults as well as recording body weight and wing measurements for on going research. Bird Species Included the Red-footed Booby (*Sula sula*), Brown Booby (*Sula leucogaster*), Masked Booby (*sula dactylatra*), Red-tailed Tropic Bird (*Phaethon rubricauda*), Great Frigatebird (*Fregato minor*), White Tern (*Gygis alba*), Sooty Tern (*Sterna fuscata*), Black Noddy (*Anous minutus*)

Assisted radio tracking of individual Western Spade Footed Toads (*Spea hammondi*) at the Caraso Plain in southern California. These individuals were tracked over the duration of their breeding season to establish movement patterns, preferred daytime resting locations and distance from vernal pools that they estavate.

Dates: January 8-March 9, 2001.

Presentations:

Brewer, M.L. (2002) Relative warp analysis of wing morphology using seabirds as a model. Student research symposium, California State University Northridge. First place: Math and Science Division.

Brewer, M. L, and F. Hertel (2002). A comparison of seabird wing shape using Thin-Plate Spline/Relative Warp Analysis. Third North American Ornithological Conference.

Brewer, M. L., L. T. BaLlance, and F. Hertel (2002). A comparison of seabird wing shape using traditional morphometrics and relative warp analysis. Pacific Seabird Group Annual Meeting.

Work History

Zoological Society of San Diego, San Diego Zoo

January 1993-February 1999

San Diego, California

Animal trainer

Supervisor: Kathy Marmack

Implementing daily care of animals; diets, observations, cleaning, enriching and maintaining enclosures, also involved in public relations events; training and presenting animals in daily public shows and guiding visitors on private tours of the show areas. Developing and implementing training programs for animals; assisting veterinarians with procedures including administering medications as necessary. Animals worked include but are not limited to: sea lions, Timber wolf, cheetah, tiger, leopard, binturong, river otters, various birds including: Andean condor, hawks, owls, macaws.

Zoological Society of San Diego, San Diego Wild Animal Park

March 1991- January 1993

San Diego, California

Supervisor: Michael Kobert

Animal keeper

Implementing daily care of animals; diets, observations, cleaning, enriching and maintaining exhibits of varying sizes March 1991-up to 120 acres; assisting veterinarians with knockdowns and administering medical procedures as necessary. Animals worked include but are not limited to: rhinoceroses, giraffe, giant eland, okapi as well as several deer and gazelle species.

Sea World of San Diego

August 1988-January 1991

San Diego, California

Animal trainer

Supervisor: Julie Scardina-Ludwig

Implementing daily care of animals; diets, observations, cleaning, enriching and maintaining enclosures, also involved in public relations events; training and presenting animals in daily public shows and guiding visitors on private tours of the show areas. Developing and implementing training programs for animals; assisting veterinarians with

procedures including administering medications as necessary. Animals worked include: California sea lions, river otters, several cetacean species including: killer whales and bottle-nosed dolphins.

Other:

I have taken Avian Ecology/Ornithology as CSUN that was taught by Fritz Hertel. The class has an emphasis on identification and general knowledge of local bird species.