

# **Matthew Fuxjager**

**Assistant Professor of Biology at Wake Forest University**

Winston-Salem, NC, US

Fuxjager's research focuses on the interplay between sex steroids and social behavior and how evolution influences species variations.

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## **Biography**

Matthew Fuxjager is a biologist whose research program overall is quite integrative, combining concepts and techniques from the fields of physiology, neurobiology, ethology and evolution.

He studies the physiological mechanisms of complex social behavior and how evolution shapes these mechanisms to influence species variation in social traits.

Fuxjager's research mainly focuses on the interplay between sex steroids and behavior. Currently, he is using birds to pursue this line of work, including manakins – tropical birds that perform acrobatic courtship displays – and downy woodpeckers which are temperate birds here in North Carolina that vigorously defend territories.

He also has very broad interests in the endocrine basis of behavior and is comfortable working in a range of vertebrate models, most recently the Bornean rock frog.

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## **Areas of Expertise**

Zoology, Animal Social Behavior, Courtship Displays, Androgenic Hormones, Neuromuscular Systems

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## **Education**

**University of Wisconsin - Madison**

Ph.D. Zoology

**University of North Carolina at Chapel Hill**

M.S. Biology

**Pomona College**

B.A. Neuroscience

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