

Migration Studies Through the Lenses of Migrant and Resident Comparisons and Seasonal Stages of Spring and Autumn

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The global movements of birds have fascinated observers for centuries. And, over the past 25 years our understanding of the immense scope of migration has accelerated largely owing to technological advances. Yet, a full understanding of the behavioral and physiological regulation of these movements remains in many ways uncertain. I have taken two approaches to address these gaps. First a comparison of resident and migrant subspecies of White-crowned Sparrow (*Zonotrichia leucophrys*) to identify what phenotypes have altered or disappeared over time. Next, a life cycle approach for direct comparisons of spring and autumn migrations to determine whether the seasonal movements of migrants are the same or different owing to constraints of the environment, breeding, and migratory functions. Building on these approaches provide a basis for understanding how selective pressures have influenced the life histories of the subspecies while forging their migratory strategies.

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TUESDAY, OCTOBER 5

4:00 P.M.

JOHN 102/ZOOM

[HTTPS://TINYURL.COM/MARILYNRAMENOFSKYOSU](https://tinyurl.com/marilynramenofskyosu)

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Zonotrichia l. nuttalli, Eric Preston



Zonotrichia leucophrys gambelii, Wikipedia