

**2022-2023 SOAR Fellow**  
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Dr. Daniel S. Joyce is a Research Assistant Professor in the Department of Psychology at the University of Nevada, Reno. He draws from the fields of vision and circadian sciences to understand how light drives human behaviors. While we see shape, color, and motion in the world through conscious vision, recently discovered unconscious visual pathways convey light information for “non-image forming” (NIF) functions. Such functions include setting circadian rhythms for restful sleep and optimizing physiology and cognition based on the time of day. Dr. Joyce uses this knowledge to understand how visual dysfunction due to lifestyle factors (e.g., shiftwork) or biological factors (e.g., aging) can contribute to disease processes. Ultimately, this knowledge will help develop

light environments that not only help us see well, but that support the NIF pathways to regularize sleep and improve health and wellbeing too.