



Christian Brown

ARCS Atlanta Century Award
Ph.D. Student, Ecology
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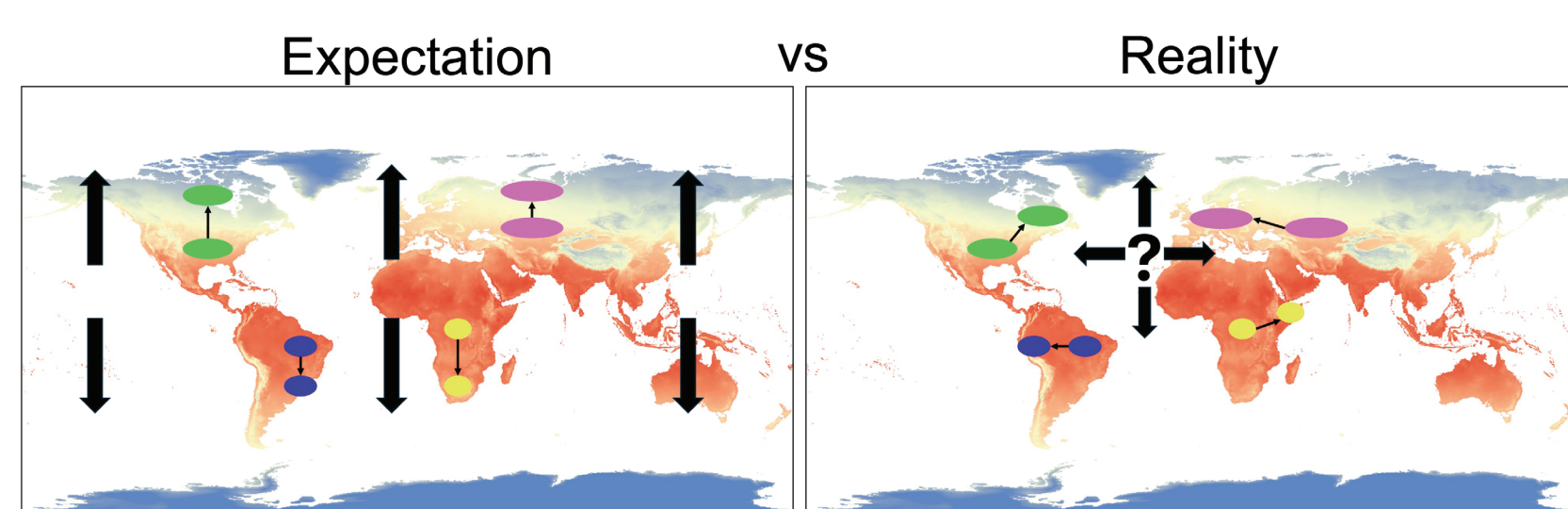


UNIVERSITY OF
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Shifting interactions across species' distributions affect range limits and climate responses

I use large-scale field experiments and computational models to understand how shifting species interactions may affect tree species' distributions responses to climate change.

Climate change is shifting species distributions, but not how we expected...



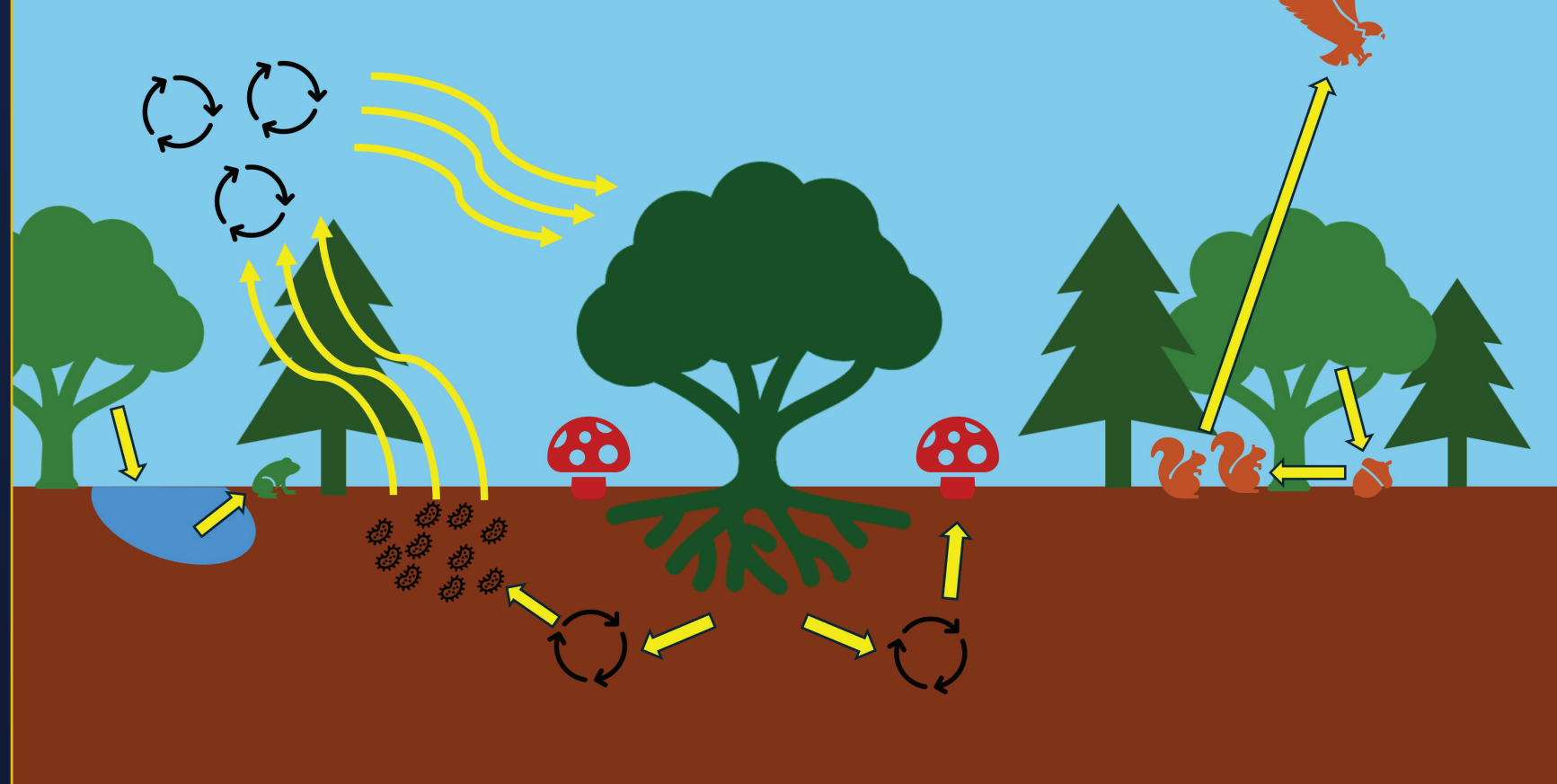
Biotic interactions matter!



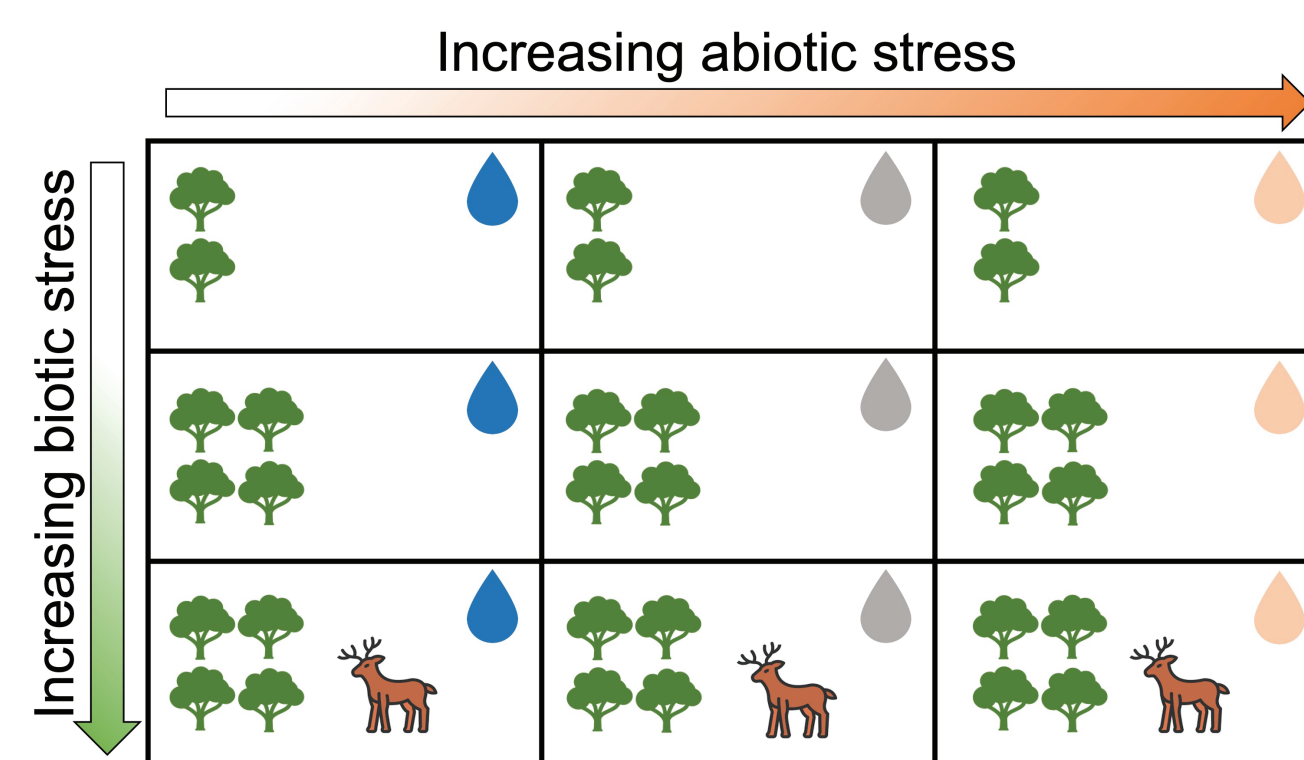
When species migrate, they encounter new competitors...

As well as new predators.

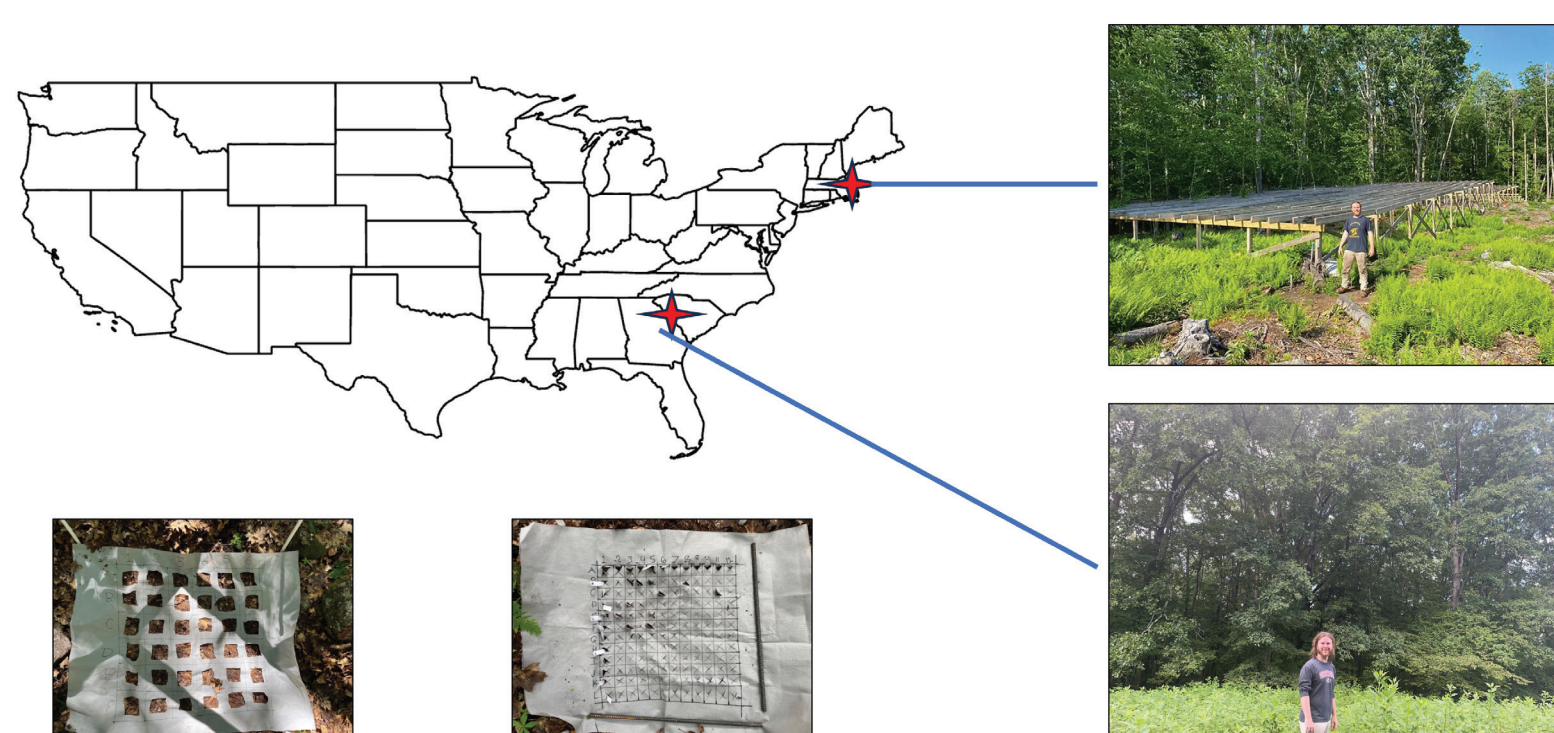
Trees are foundation species!



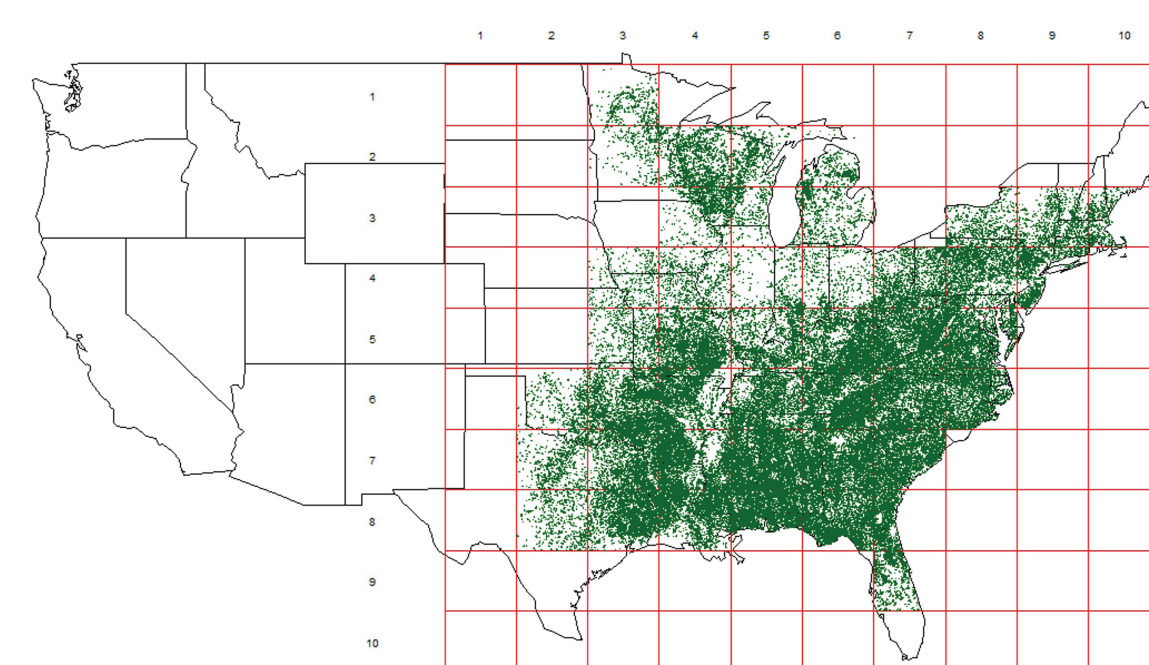
How important are biotic interactions for limiting species distributions vs abiotic factors?



Experimental Research Sites



How do species interactions change throughout their distribution?



Computational models compliment field experiments!