

# BIOLOGICAL SCIENCES SEMINAR

MONDAY, FEBRUARY 15, 2021, 12:00-1:00 PM  
ZOOM MEETING ID: 925 8285 0027 MEETING PASSWORD: BIO21

## Dr. Carrie Diaz Eaton

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MAA Leader and Chair of the Committee for Minority Participation  
in Mathematics

### ***Interdisciplinary education through data science***

Data science opens avenues of interdisciplinary exploration, both in teaching and in research. In this talk, I discuss two such collaborations. In the first, I will discuss interdisciplinary curriculum building efforts in creating an introductory data science course centered on ethics, information, and truth. This “Calling Bull with R” was a course featured in the Washington Post, which also highlighted a student research project. In the second part, I use a theoretical lens and analysis toolbox for ecologically mutualistic bipartite networks to understand relationships between mathematical and marine biology concepts. I connect these techniques and visualizations to insights about assessing, improving, and evaluating teaching practice and curriculum development. Lastly, I’ll discuss resources for the support of interdisciplinary quantitative teaching, including QUBES ([qubeshub.org](http://qubeshub.org)).



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