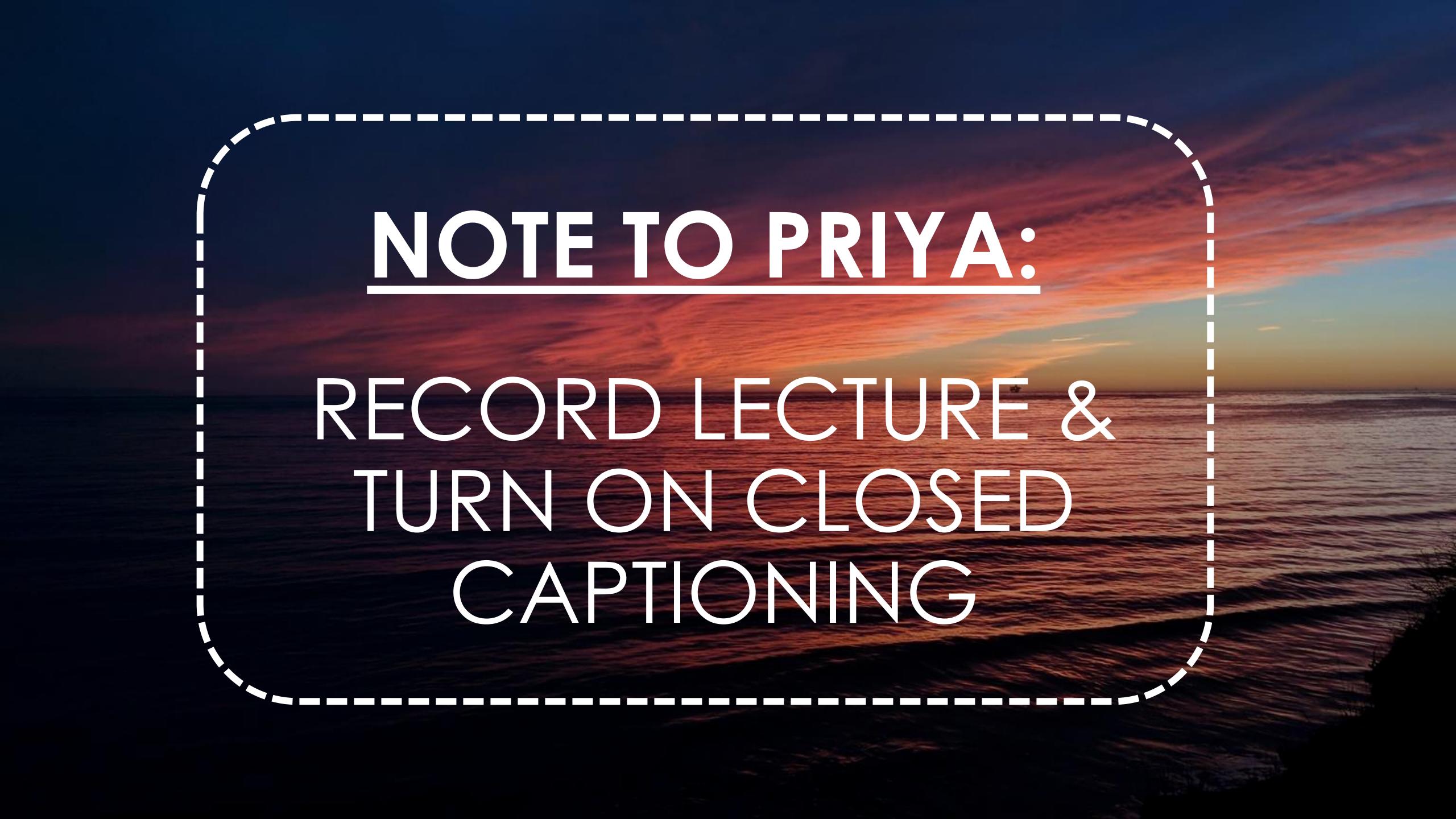


The background of the slide is a high-angle aerial photograph of a coastal area. The water is a vibrant turquoise color, transitioning into a bright orange sandy beach at the bottom right. The overall texture is slightly grainy, giving it a natural, organic feel.

# WELCOME TO ANS 198

## PROFESSIONAL DEVELOPMENT IN MARINE SCIENCE



NOTE TO PRIYA:

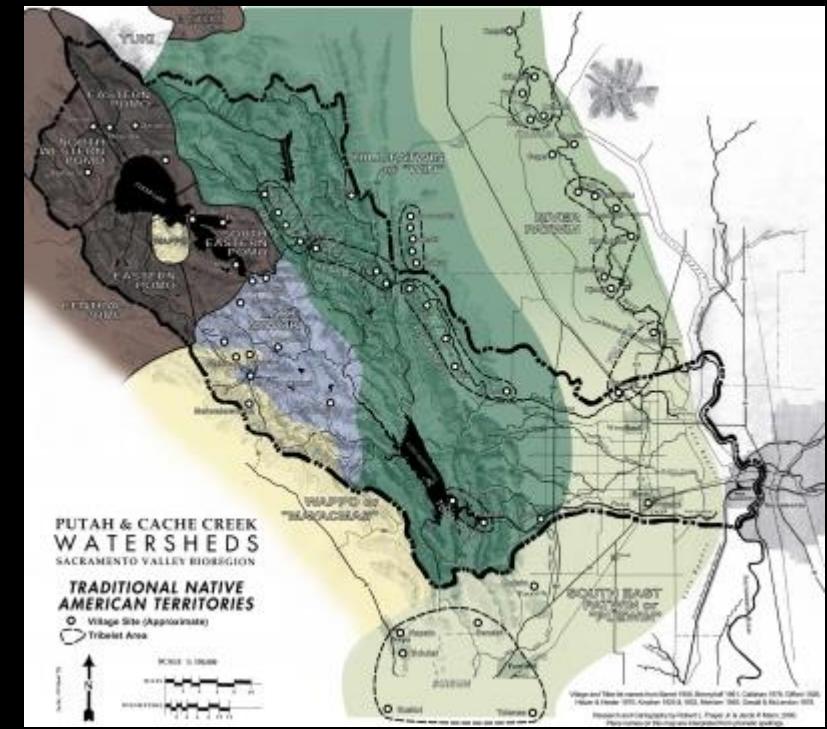
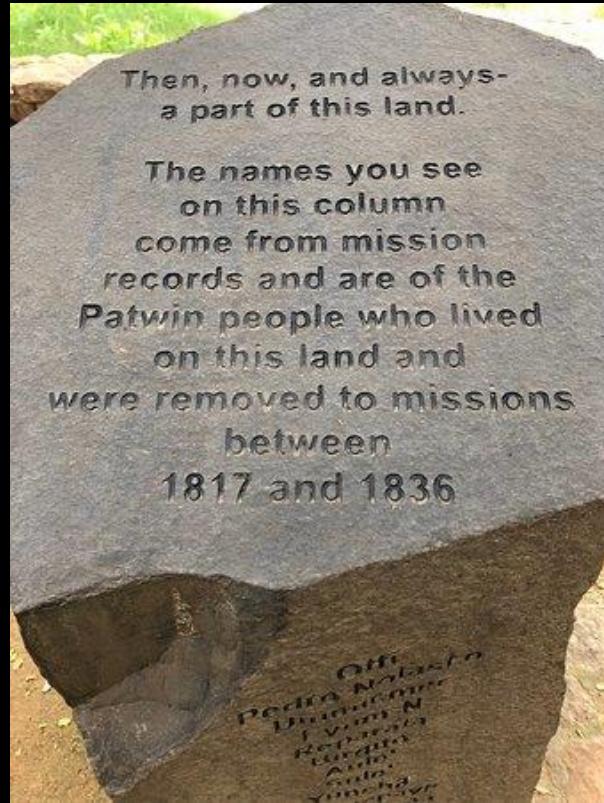
RECORD LECTURE &  
TURN ON CLOSED  
CAPTIONING

The background of the slide is a high-angle aerial photograph of a coastal area. The water is a vibrant turquoise color, transitioning into a bright orange sandy beach at the bottom right. The overall texture is slightly grainy, giving it a natural, organic feel.

# WELCOME TO ANS 198

## PROFESSIONAL DEVELOPMENT IN MARINE SCIENCE

# TERRITORIAL ACKNOWLEDGEMENT



This acknowledgement was made possible by **native-land.ca** and **yochadehe.org**.

# BOOKMARK THE COURSE WEBSITE!



[https://ucdcmsi.github.io/mcs-  
resources/Fall2020\\_ProfDev.html](https://ucdcmsi.github.io/mcs-resources/Fall2020_ProfDev.html)

# WHAT IS THIS COURSE?

A professional development seminar for students interested in a career in the marine sciences.



# WHAT IS THIS COURSE?



*You will learn ...*

how science works

skills that will make you a  
successful student

how to find career  
experiences that will prepare  
you for life after undergrad



# NUTS & BOLTS OF THIS COURSE



CRN: 21626

2 units

Graded P/NP



# INSTRUCTOR OF RECORD

Anne Todgham

[todgham@ucdavis.edu](mailto:todgham@ucdavis.edu)



# INSTRUCTOR OF THIS COURSE

Priya Shukla

[pshukla@ucdavis.edu](mailto:pshukla@ucdavis.edu)



# ABOUT PRIYA



## Effects of an eelgrass bed (*Zostera marina*) on seawater pH and alkalinity

Priya Shukla  
University of California, Davis  
Bodega Marine Laboratory  
BIS 124  
27 July 2011



# ABOUT PRIYA

*Phycologia* Volume 56 (6), 638–648

Published 1 August 2017

**Elevated  $p\text{CO}_2$  is less detrimental than increased temperature to early development of the giant kelp, *Macrocystis pyrifera* (Phaeophyceae, Laminariales)**

PRIYA SHUKLA\*† AND MATTHEW S. EDWARDS

*Coastal and Marine Institute Laboratory, San Diego State University, 5500 Campanile Drive, San Diego, California 92182, USA*



# ABOUT PRIYA



Bodega Ocean Acidification  
Research Technician

# ABOUT PRIYA



PHD  
STUDENT

Forbes

212 views | Aug 8, 2020, 11:25am EDT

## Sexual Parasites And Altered Immune Systems Help These Deep-Sea Fish Mate

Priya Shukla Contributor @ Science *I write about the ocean, climate change, and the future of our planet.*



Female anglerfish with a parasitic male fused to the underside of her

WRITER



CMSI LEAD  
MENTOR

# ACTIVITY – ABOUT YOU!

From pre-class  
survey

**43%** of you think  
icebreakers are  
“Painfully  
Awkward”



# AN OVERT COURSE GOAL

## COMMUNITY BUILDING



# ACTIVITY – ABOUT YOU!

*In breakout sessions of 3 people each ...*

One of  
your first  
ocean  
memories



An ocean class /  
lecture /  
research  
experience  
you've had in  
college

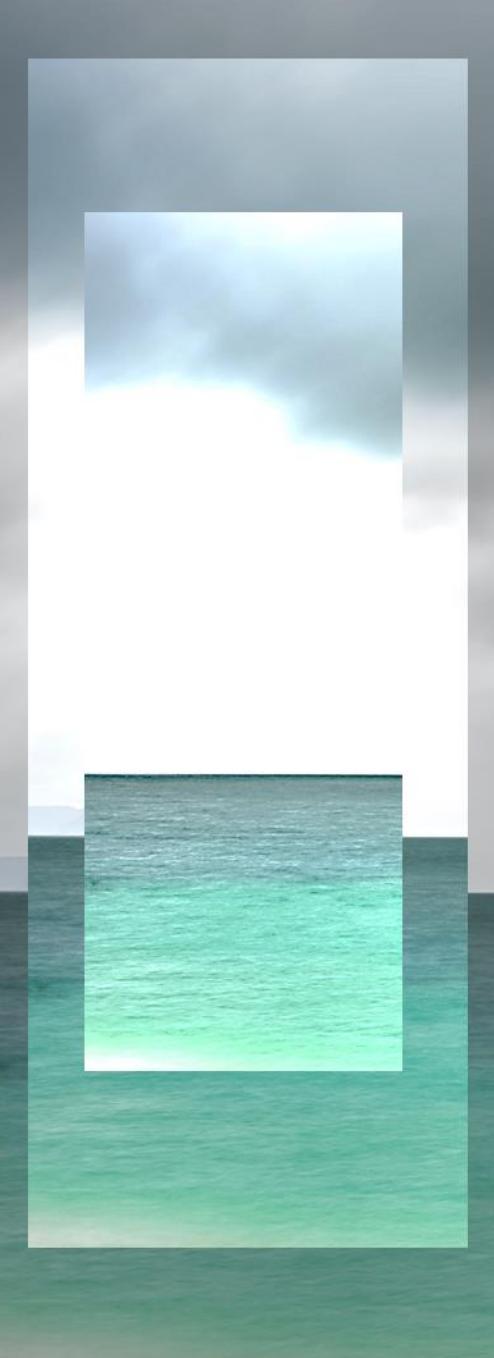
# ACTIVITY – ABOUT YOU!

*In breakout sessions of 3 people each ...*

SHARE  
SOMEONE  
ELSE'S  
OCEAN  
MEMORY



SHARE SOMEONE  
ELSE'S COLLEGE  
OCEAN  
EXPERIENCE

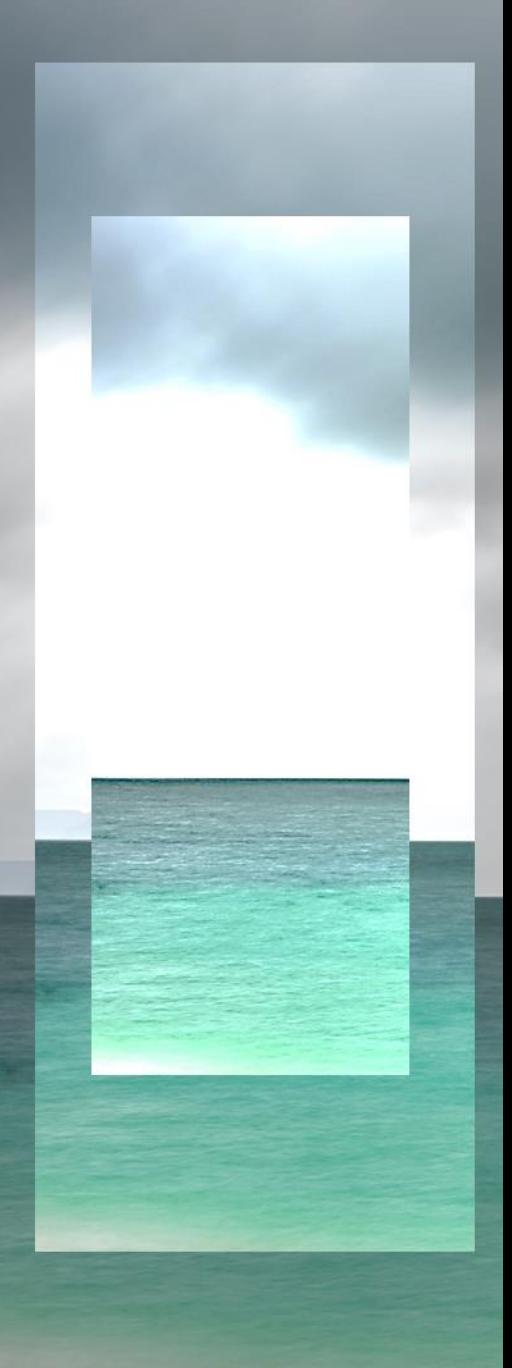


# GRADING

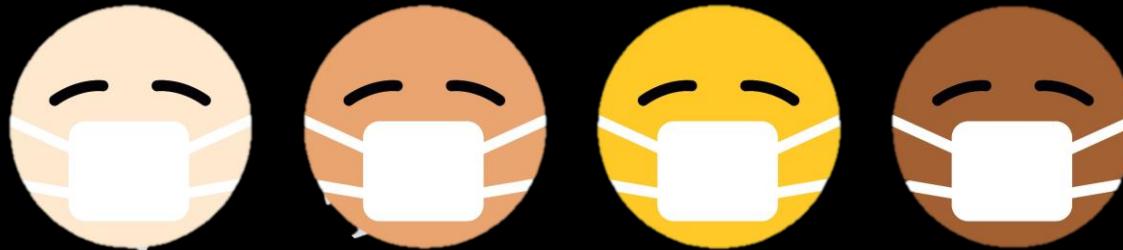
Based on **class participation & short, weekly questionnaires.**

**Graded P/NP**

*To receive a passing grade ...*  
**You must attend 7/10 classes.**  
**All assignments must be turned in.**



# GRADING

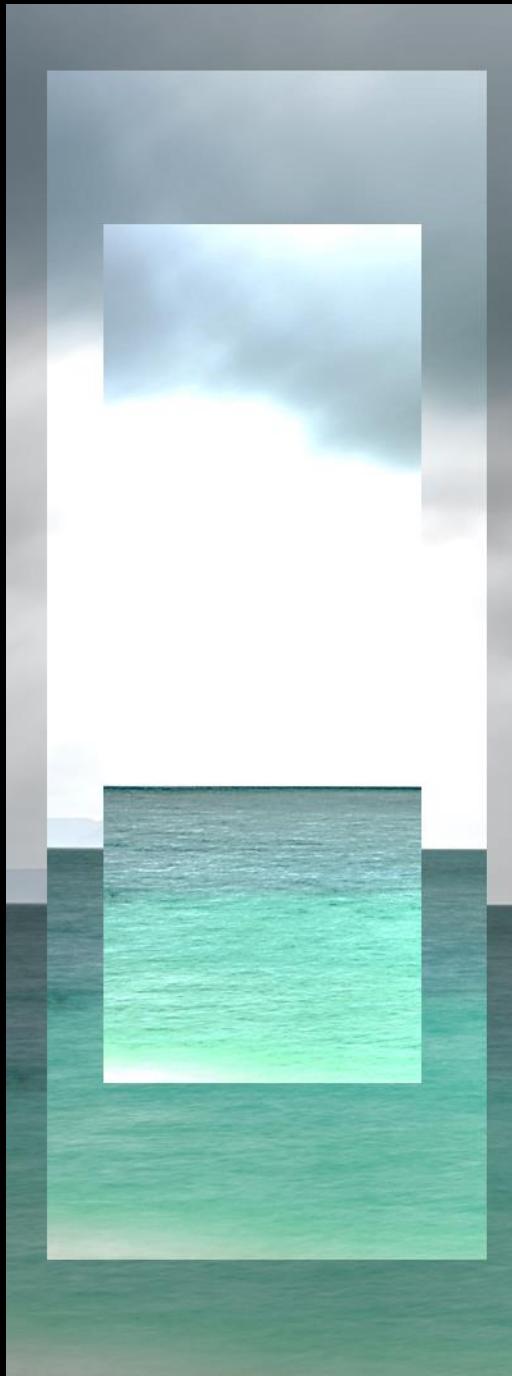


*If you will not be able to attend 7/10 classes OR submit all assignments, please let me know so that we can discuss alternate arrangements*

# ASSIGNMENTS

**due 12:00pm the day of class**

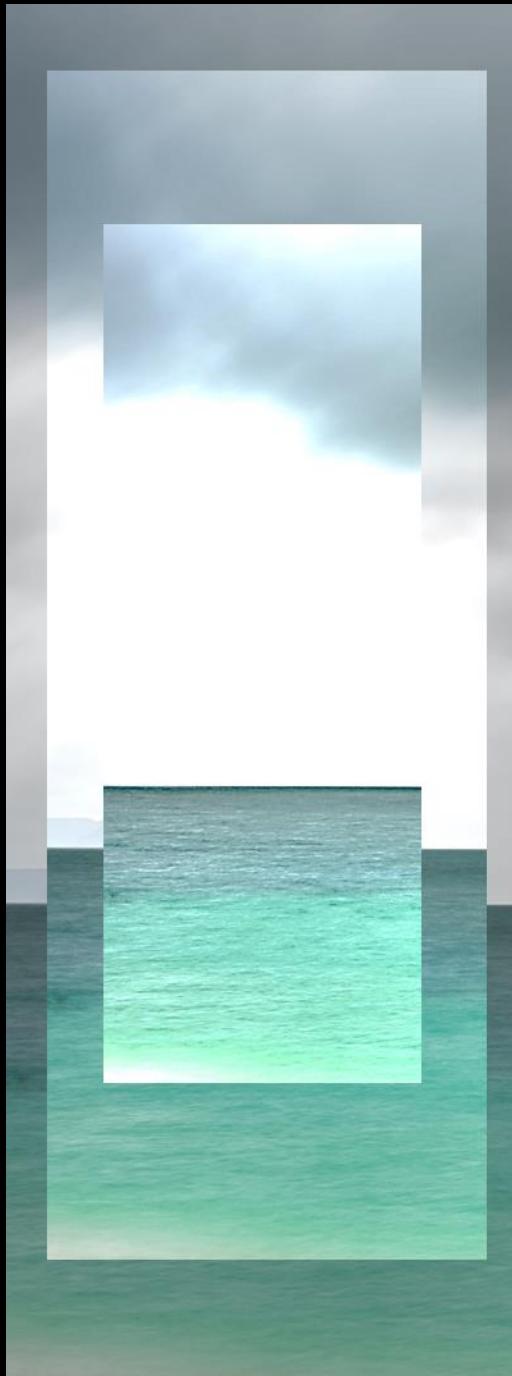
You will be expected to find resources yourselves & then share them with your peers during a subsequent meeting



# ASSIGNMENTS

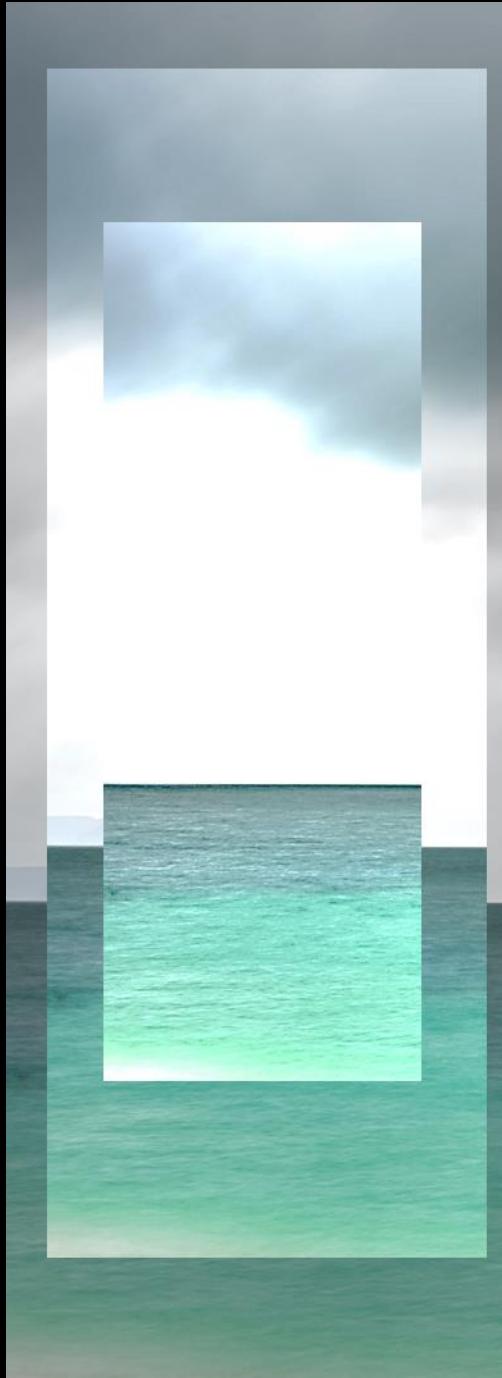
**A key goal of this course is to share and collect resources**

This can be a book, a peer-reviewed article, a blog post, an Instagram post, a Facebook Group, a Twitter thread, an infographic, advice a professor gave you, something you learned from a lunch with a seminar speaker, etc.).



# ASSIGNMENTS

Ultimately, there is no single class you can take that will teach you everything you need to know, **so learning how to search for and share the information you need is a good skill to hone.**



# ASSIGNMENTS

 NOAA Education   
@NOAAeducation

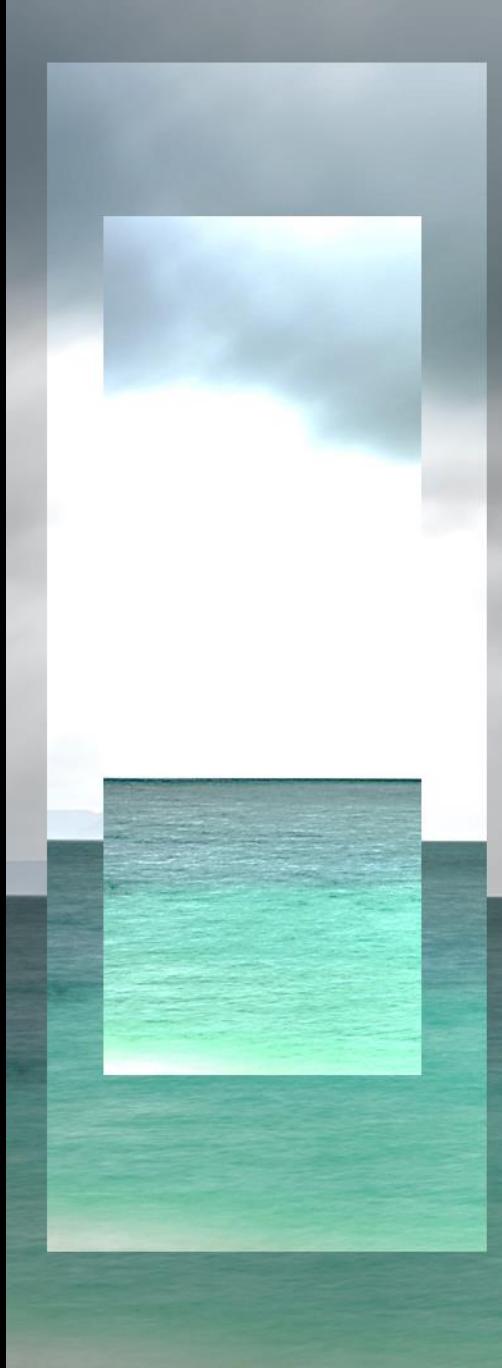
Are you an **#undergraduate** interested in a two year scholarship and paid summer **#internship** with NOAA? If so, the Hollings or EPP/MSI **#scholarship** may be for you! Applications are now open! **#NOAAScholars**

For more information and how to apply:



NOAA undergraduate scholarship applications are open — Apply today!  
Are you interested in a scholarship and paid summer internship with NOAA?  
Consider applying for the Hollings Undergraduate Scholarship or the Educationa...  
[noaa.gov](http://noaa.gov)

8:23 AM · Sep 1, 2020 · Twitter Web App



# CODES OF CONDUCT



## ACADEMIC

*Read the syllabus:  
Don't plagiarize, don't cheat.*

# CODES OF CONDUCT



## WORKING TOGETHER

*Read the syllabus:  
Lots of examples of acceptable &  
unacceptable behavior.*



# COURSE SCHEDULE

- 1      Introduction
- 2      Academic Science + Lab Culture
- 3      Writing in Science
- 4      Finding & Reading Scientific Papers
- 5      Applying to Jobs / Internships
- 6      Applying for Grants & Fellowships
- 7      Applying to Graduate School
- 8      Science Communication
- 9      Science Ethics & Advocacy
- 10     ***Wild Card: Class Choice!***

Diversity

Equity

Inclusion

# Diversity

Used to describe policies /  
practices that attempt to include  
previously excluded groups

The background of the image is a photograph of a sunset or sunrise over a body of water. The sky is filled with warm, orange, and red hues, transitioning into cooler blues and purples at the top. The water reflects these colors. Overlaid on the image is a grid of 20 white, sans-serif text boxes. The text is arranged in five rows and four columns. Some words are single concepts, while others are compound terms like 'RESTORATIVE JUSTICE' or 'INTERSECTIONALITY'.

RESTORATIVE JUSTICE

RACISM

BIPOC

ABLEISM

EQUALITY

HETEROSEXISM

GENDER

OPPRESSION

RACE

DIVERSITY

BIAS

EQUITY

MICROAGGRESSION

SYSTEMIC

MARGINALIZATION

POWER

ETHNICITY

DISCRIMINATION

DECOLONIZE

HOMOPHOBIA

PRIVILEGE

JUSTICE

INTERSECTIONALITY

ALLY

SEX

CULTURAL COMPETENCY

PREJUDICE

INCLUSION

# Diversity

Used to describe policies / practices that attempt to include previously excluded groups

# Equity

Equality = sameness

Fairness & Justice (considers a person/community's context)

# *Equality v. Equity*

As Project: Human City points out - "equality seeks to make everyone equal, equity, on the other hand, seeks to address the underlying and systemic differences of opportunity and access to social resources."

# Diversity

Used to describe policies / practices that attempt to include previously excluded groups

# Equity

Equality = sameness

Fairness & Justice (considers a person/community's context)

# Inclusion

Brings previously excluded groups into positions where they can make decisions and impact

# JUSTICE

all people should have equal access to wealth, health, well-being, justice, privileges, and opportunity regardless of their legal, political, economic, or other circumstances



Justice

JEDI MIND TRICKS

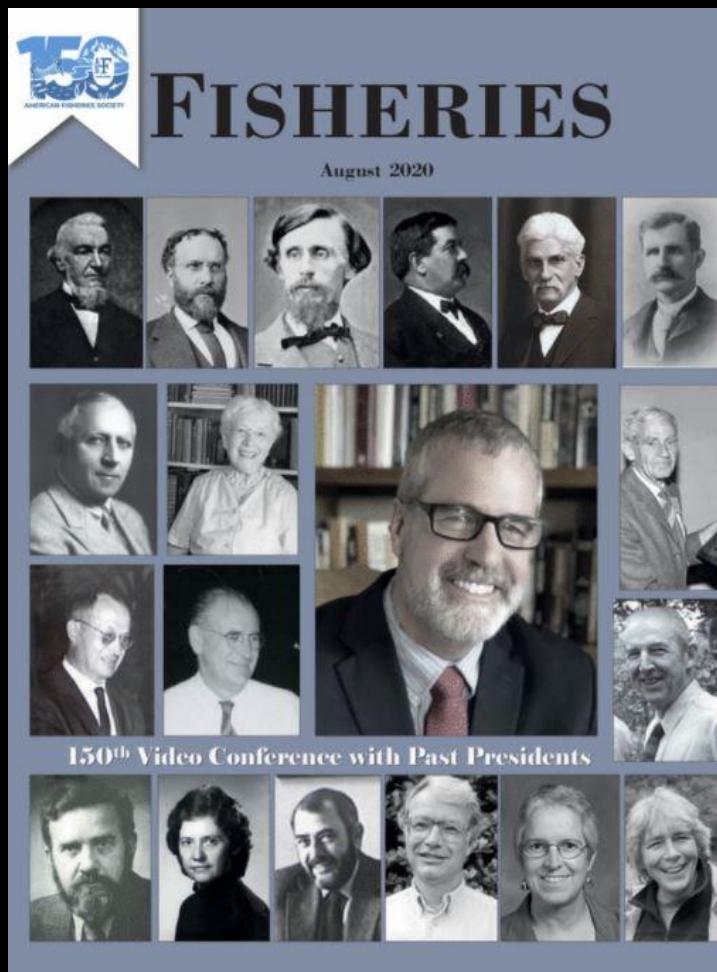
Equity

Diversity



Inclusion

# MARGINALIZED MARINE SCIENTISTS



# MARGINALIZED MARINE SCIENTISTS



#BLACKINMARINESCIENCE

Save the Week!!  
November 29<sup>th</sup> - December 5<sup>th</sup>



# CODES OF CONDUCT



WORKING TOGETHER

*Let's Develop Our Own  
Principles of Community!*

# RULES OF ENGAGEMENT

From pre-class  
survey

**43%** of you have  
used Google  
Jamboard



# TO GOOGLE JAMBOARD!

[https://jamboard.google.com/d/1cQuBb3pZzIAJH0-DS4PnJv1ZpPDX51mve27WPf\\_GGs/edit?usp=sharing](https://jamboard.google.com/d/1cQuBb3pZzIAJH0-DS4PnJv1ZpPDX51mve27WPf_GGs/edit?usp=sharing)



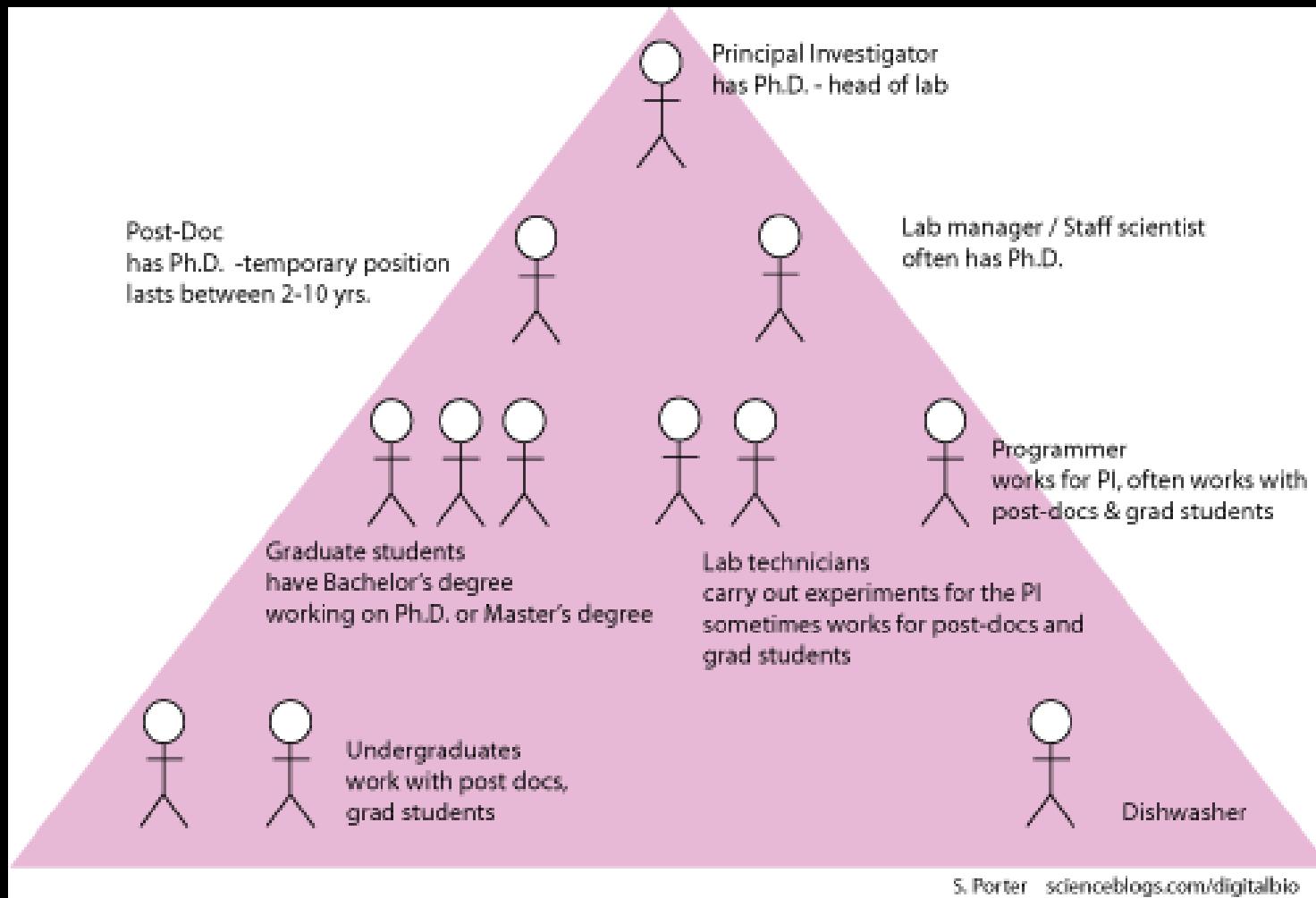
# COURSE SCHEDULE

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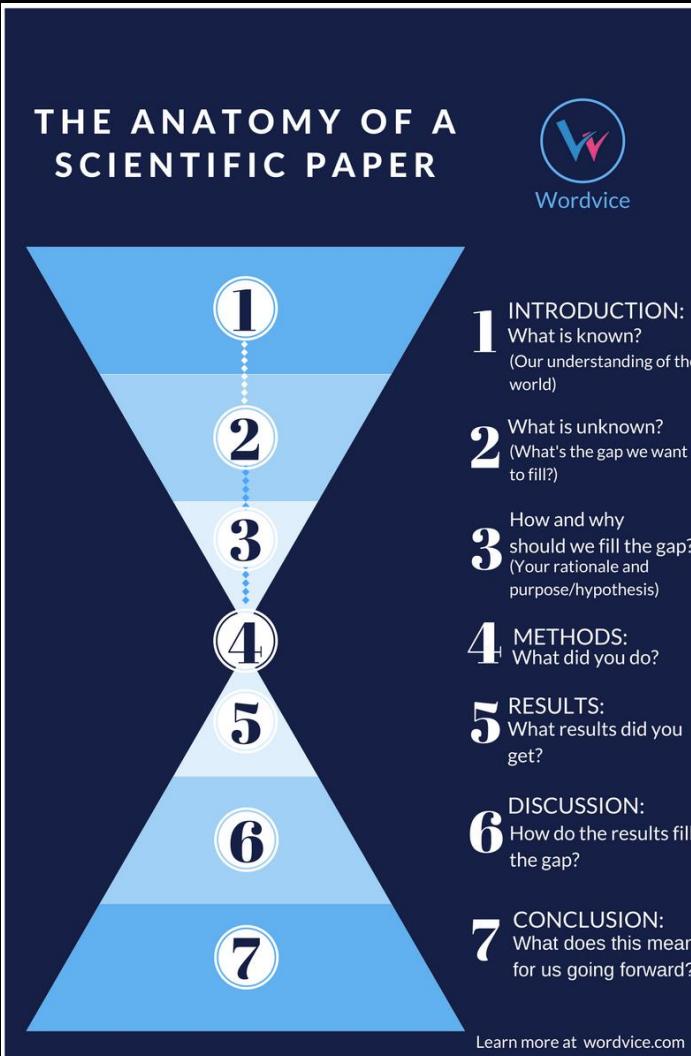
# Academic Science



# Lab Culture



# Writing in Science

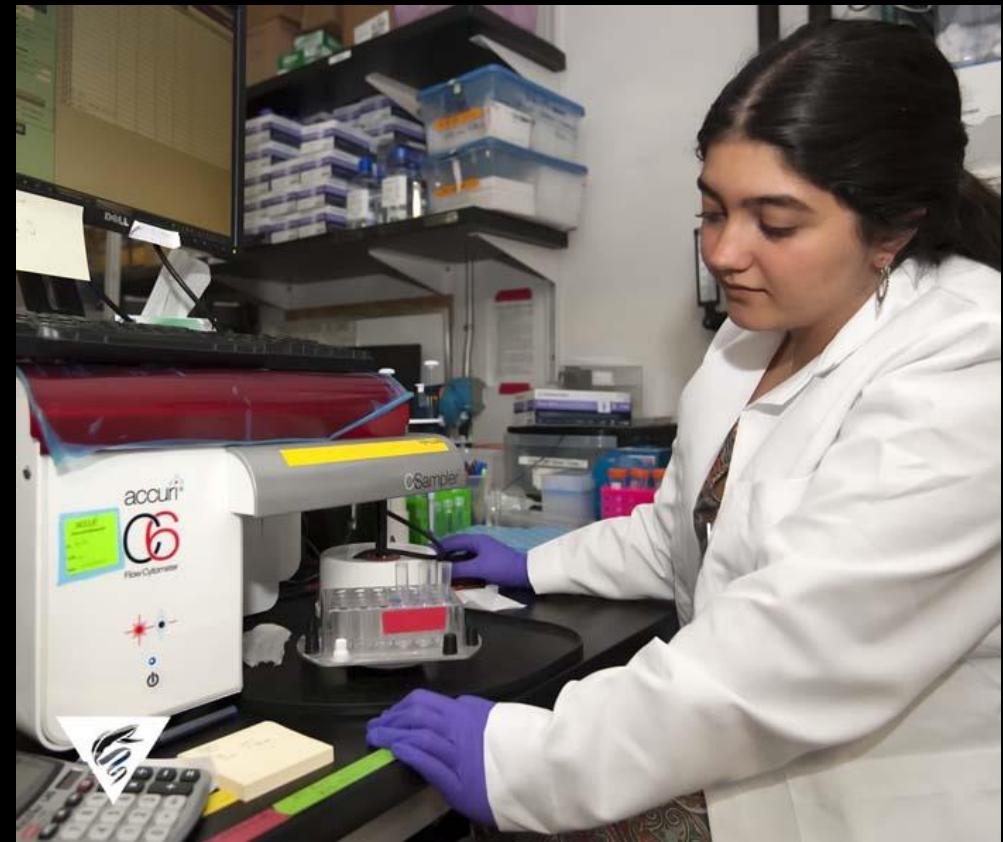
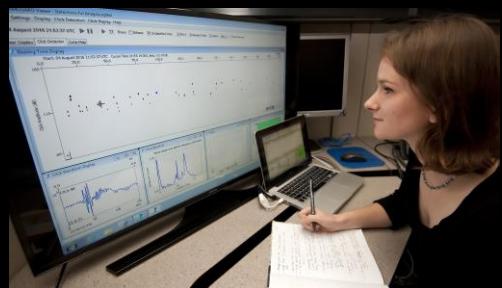


# Finding & Reading Scientific Papers

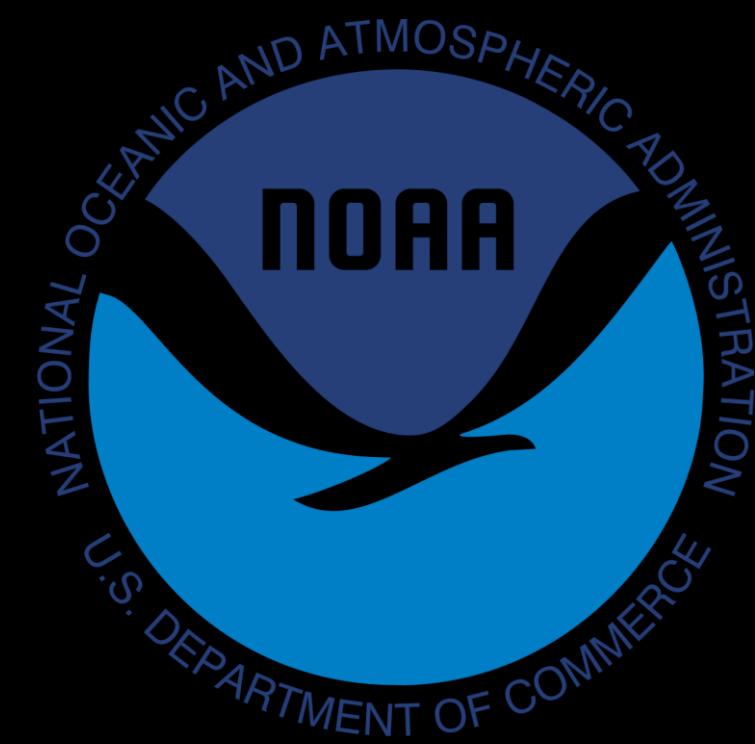
<u>SCIENCE ARTICLES: A GUIDE</u>		
	AVERAGE SENTENCE IS EASY TO UNDERSTAND	AVERAGE SENTENCE IS HARD TO UNDERSTAND
SUBJECT MATTER IS COMPLEX	GREAT WRITING	TYPICAL WRITING
SUBJECT MATTER IS SIMPLE	HONEST WRITING	PROBABLY JUST BULLSHIT

[smbc-comics.com](http://smbc-comics.com)

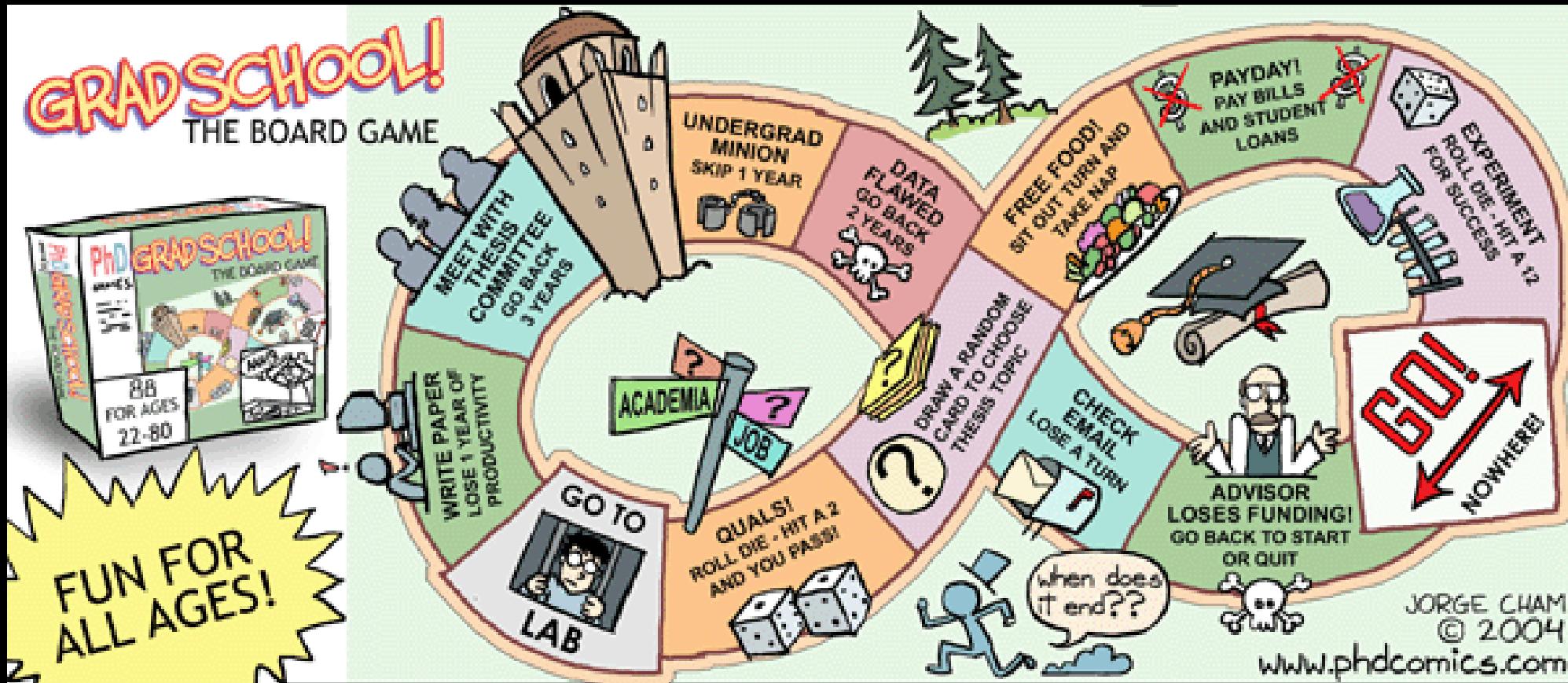
# Applying to Jobs / Internships



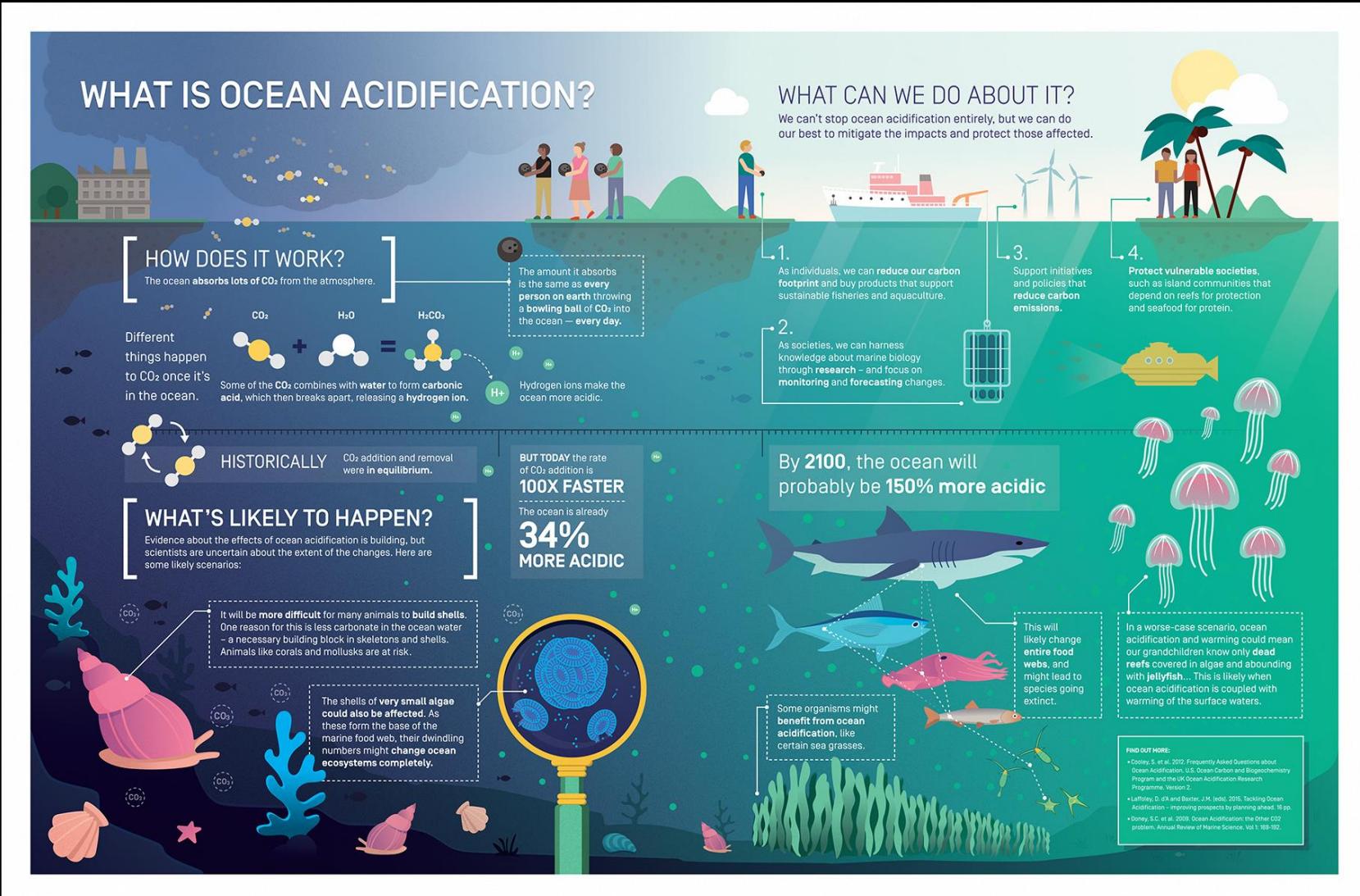
# Applying for Grants / Fellowships



# Applying to Graduate School



# Science Communication



# Science Ethics, Advocacy & Activism

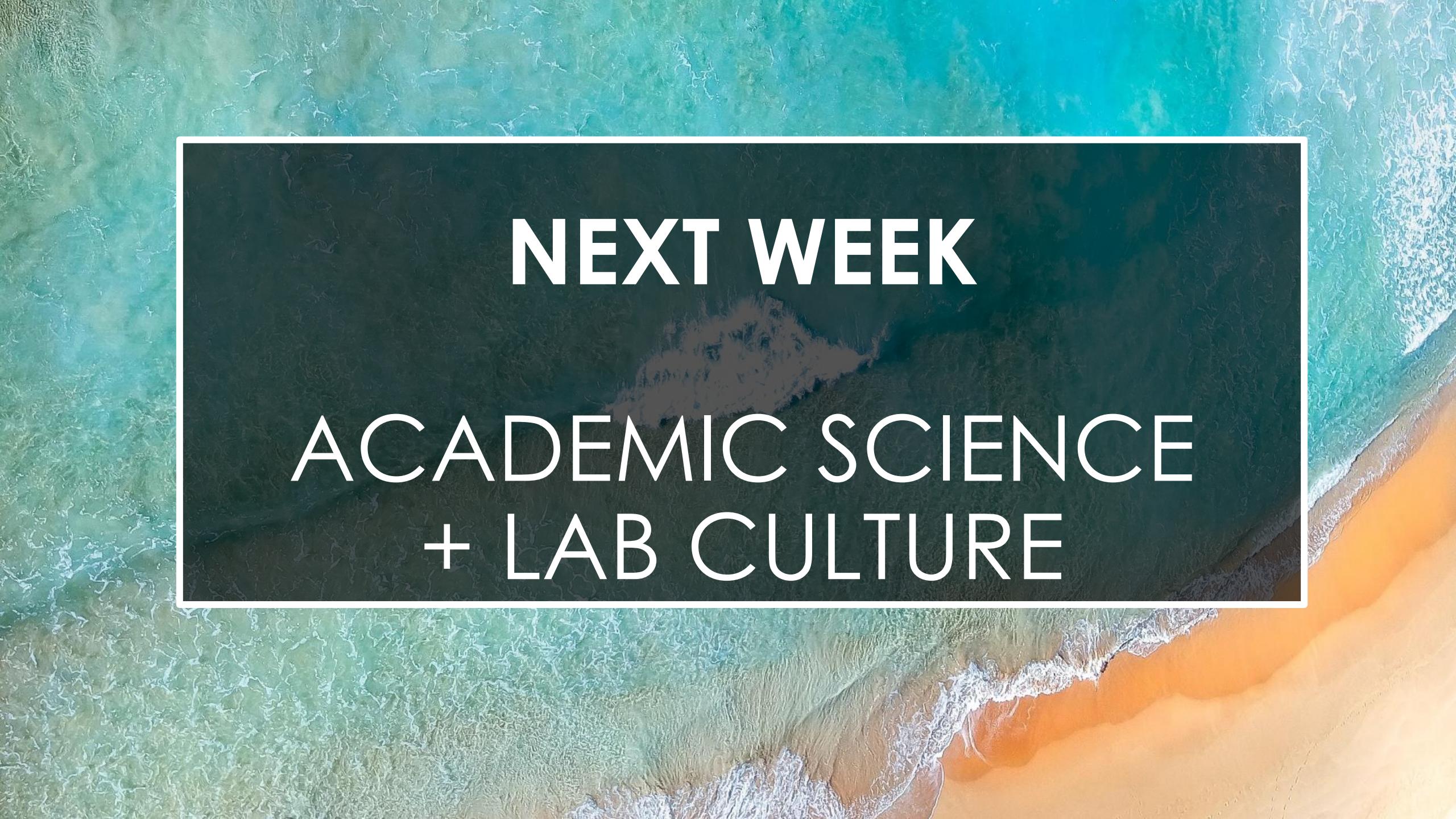


# Wild Card Class – Your Choice!



# Class Activity: Scavenger Hunt!



The background of the image is a high-angle aerial photograph of a coastal area. The water is a vibrant turquoise color, with white foam where waves break on the shore. The beach itself is a bright orange or tan color. The overall texture is slightly grainy, suggesting it's a photograph of a photograph.

**NEXT WEEK**

**ACADEMIC SCIENCE**

**+ LAB CULTURE**

# BEFORE CLASS NEXT WEEK

Complete pre-class survey

Complete  
Assignment 1





# Marine Science Club



QUESTIONS?