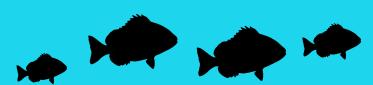
## R @ SEA:

A CARPENTRY-INSPIRED WORKSHOP FOR MING ON







#### FIELD SCHOOL | MIAMI, FLORIDA













PRACTICAL RESEARCH SKILLS OF HANDS-ON TRAINING









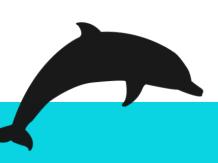


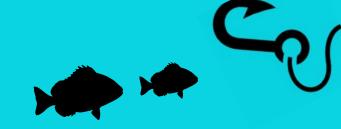






## WHY TEACH R @ SEA?



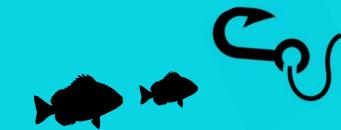




#### WHY TEACH R @ SEA?



TO EMPHASIZE THE ROLE & IMPORTANCE OF CODING & STATISTICS IN RESEARCH SKILLS





#### WHY TEACH R @ SEA?

TO EMPHASIZE THE ROLE & IMPORTANCE OF CODING & STATISTICS IN RESEARCH SKILLS

A NOVEL TWIST ON TRADITIONAL CODING COURSES

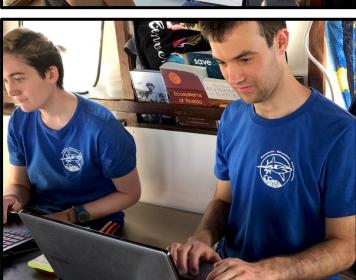


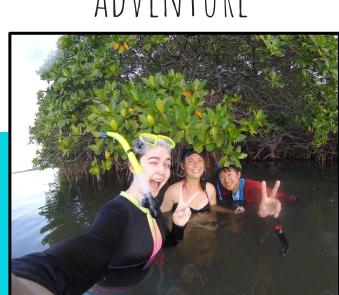


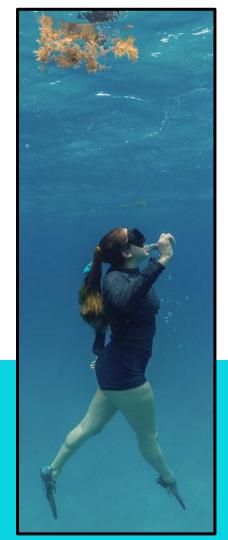




# LEARNERS ROTATE BETWEEN INTENSIVE CODING & IMMERSIVE ADVENTURE



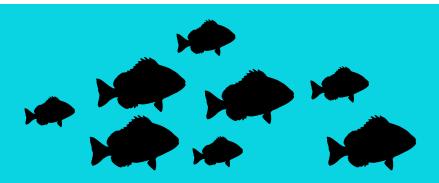




NON-TRADITIONAL LEARNING SPACES CAN WORK...

...BUT STICKY NOTES ARE MORE IMPORTANT THAN EVER...

... SO IS PAIR PROGRAMMING.



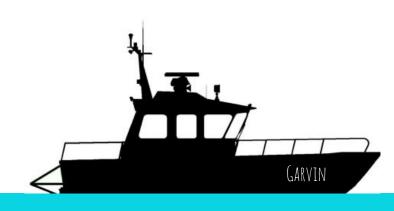


STATISTICS + CODING = COGNITIVE (OVER)LOAD

FILL-IN-THE-BLANK CODING
TEMPLATE HELPED LEARNERS
RECOGNIZE PATTERNS IN
ALMODELLING PROCESSES.

```
MixedModels Blank,R ×
26
27.# ---- Linear Model: Diagnostics ----
28 ## Diagnostics 1: Residuals vs Fitted Values
29 # Create data frame of residuals and fitted values
 30
 31 # Visualize fitted values vs residuals
 32
   ## Diagnostics 2: Dispersion
 34
 35-# ---- Adding a Factor ----
   # Add a column treating beach as a factor (fBeach)
 37
   # Plot the model residuals by beach
 39
   # what do we see? What does this tell us?
```

CASUAL EVENING SESSIONS WORK INCREDIBLY WELL WHEN



EVERYONE IS IN THE SAME BOAT...





"EVERYTHING ELSE"

IS WHAT STUDENTS

COME FOR; "HOW

TO CODE" IS WHAT THEY TAKE AWAY.



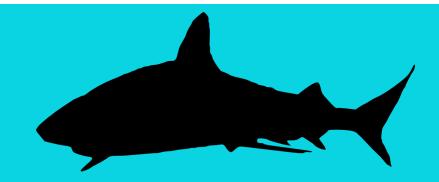
DEFINE MODELLING EXPECTATIONS.

ALLOCATE MORE TIME FOR COWORKING SESSIONS.

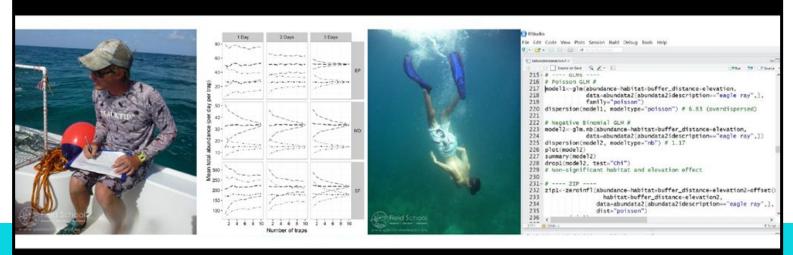
THE INTERNET IS A LUXURY; BE PREPARED TO GO WITHOUT.

THE SUN DRAINS ENERGY.

BRING GRAVOL.



## Get hands-on marine science research experience! Join Field School's R at Sea Course and learn data management and ecological modelling in R!



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