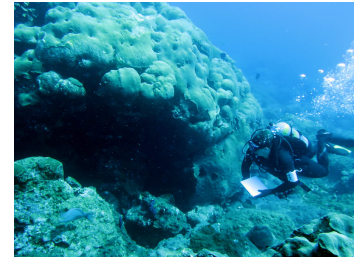



# IAN R. COMBS

Coral health and disease, coral reef ecology, 3D photogrammetry




Research technician specializing in coral health and disease, coral reef ecology, and 3D photogrammetry.


## EDUCATION


2017  
|  
2019  
**M.Sc. in Biological Sciences**  
Florida Atlantic University  Boca Raton, FL  
Thesis: Characterizing the impacts of stony coral tissue loss disease on coral in southeast Florida using 3D photogrammetry  
Advisor: Dr. Joshua Voss


2010  
|  
2014  
**B.Sc. in Marine Science**  
University of Delaware  Newark, DE


## RESEARCH EXPERIENCE

2019  
|  
Present  
**Research Technician**  
FAU, Harbor Branch Oceanographic Institute  Ft. Pierce, FL  
Voss Laboratory  
Dr. Joshua Voss


2017  
|  
2019  
**Graduate Research Assistant**  
FAU, Harbor Branch Oceanographic Institute  Ft. Pierce, FL  
Voss Laboratory  
Dr. Joshua Voss


2017  
**Coral Restoration Intern**  
Mote Marine Laboratory  Summerland Key, FL  
Elizabeth Moore International Center for Coral Reef Research & Restoration  
Chris Page

2017  
**Coral Health and Disease Research Intern**  
Mote Marine Laboratory  Sarasota, FL  
Coral Health and Disease Laboratory  
Dr. Erinn Muller

2014  
**Research Assistant**  
University of Delaware  Lewes, DE  
Team Benthic Habitat Mapping  
Dr. Douglas Miller

## CONTACT INFO

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 +1 (301) 704-9605

 [combsi9892@gmail.com](mailto:combsi9892@gmail.com)

 [Ian Combs](#)

 [icombs2017](#)

 [Scleractinian\\_](#)

## SKILLS

Coral reef ecology  
Coral health and disease  
100+ Scientific Dives  
Multivariate data analysis  
3D Photogrammetry

## TEACHING EXPERIENCE

- 2018 **Graduate Teaching Assistant**  
FAU Harbor Branch Oceanographic Institute  
Marine Biodiversity  Ft. Pierce, FL
- 2017 **Research Based After School Program**  
Mote Marine Laboratory  Summerland Key, FL
- 2014 **Alumni Service Corps**  
|  
2015 Gonzaga College High School  Washington, D.C.

## STUDENTS AND INTERNS MENTORED

- 2020 **Ashley Carreiro**  
|  
present **Coral Reef Health and Ecology Lab**
- 2019 **Mckenna Rayburn**  
**Link fellowship intern**  
Intervention methods and rate of tissue loss on stony coral tissue loss disease-affected *Montastraea cavernosa* in the Florida Reef Tract
- 2018 **Emily Chei**  
**Link fellowship intern**  
Assessing population connectivity of the coral *Montastraea cavernosa* along the northern Florida Reef Tract
- 2018 **Diana Perez**  
**Link fellowship intern**  
Zooxanthellae characterization and connectivity in *Montastraea cavernosa*

## PRESENTATIONS

- 2019 **Characterizing impacts of scleractinian tissue loss disease on corals in southeast Florida with photogrammetry and 3D modeling**  
48th Annual Benthic Ecology Meeting  St. John's, NL, Canada  
**Combs IR, Beal J, Voss JD**  
**Oral presentation**
- 2019 **Characterizing the impacts of scleractinian tissue loss disease on corals in southeast Florida**  
ASLO Aquatic Sciences Meeting  San Juan, PR.  
**Combs IR, Beal J, Voss JD**  
**Poster presentation**
- 2019 **Impacts of scleractinian tissue loss disease on corals in southeast Florida**  
Indian River Lagoon Symposium  Ft. Pierce, FL.  
**Combs IR, Beal J, Voss JD**  
**Poster presentation**

2019

**Understanding coral disease through 3D Modeling**

HBOI Ocean Discovery Visitors Center Marine Science Fridays

📍 Ft. Pierce, FL.

**Combs IR**

**Oral presentation**

2018

**White blotch disease impacts on corals in southeast Florida**

47th Annual Benthic Ecology Meeting

📍 Corpus Christi, TX

**Combs IR, Beal J, Voss JD**

**Poster presentation**



## FUNDING

2018

**Indian River Lagoon Graduate Research Fellowship**

\$7,947

2019

2018

**FAU GPSA Travel Awards**

\$1,600

2019



## CERTIFICATIONS

**AAUS Scientific Diver**

100'

**DAN Oxygen delivery, First Aid, and CPR for scuba diving injuries**

**USFWS Motorboat Operator Certification Course**



## MEMBERSHIP AND SERVICE

2019

**HBOI Graduate Student Association**

📍 Ft. Pierce, FL

2018

**Association for the Studies of Limnology and Oceanography**



## SKILLS

Field research planning, logistics, and execution

Coral sampling, benthic surveys, photography, navigation and mapping

3D photogrammetry, 3D model generation using Agisoft Metashape, 3D model analysis using Rhinoceros 3D

Data visualization using R statistical software

Multivariate statistical analyses

Scientific SCUBA diving



## REFERENCES

### Dr. Joshua Voss

M.Sc. Advisor

📍 Florida Atlantic University

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✉ [jvoss2@fau.edu](mailto:jvoss2@fau.edu)

### Jeff Beal

Restoration Specialist

📍 Florida Fish and Wildlife Conservation Commission

☎ +1 (772) 252-2561

✉ [jeff.beal@myfwc.com](mailto:jeff.beal@myfwc.com)

### Dr. M. Dennis Hanisak

Research Professor

📍 Florida Atlantic University

☎ +1 (772) 242-2306

✉ [ghanisak@fau.edu](mailto:ghanisak@fau.edu)

*This curriculum vitae was made  
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