

# OER-Immersive Multimedia Materials Project

## OER-Immersive Multimedia Materials Project: VR as an Agent of Change

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### INTRODUCTION

The **OER-Immersive Multimedia Materials Project** aims at the design and development of Open Educational Resources (OER) in the classroom as a model to integrate community-based learning and undergraduate research in lower and upper-level courses of the Spanish Program at UNF. It specifically involves the design of immersive educational materials with a focus on Virtual Reality and reading accessibility.

Thanks to the **Office of Undergraduate Research** at UNF, funds from an **Academic Technology Grant**, and support from the **Department of Languages, Literatures and Cultures**, the project took off in the summer of 2020. Four students were in charge of the design of immersive learning experiences for the language and literature classroom, following a number of instructional design theories (Community of Inquiry framework, Cognitive Load Theory, Multimedia Learning Principles).



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### MATERIALS & METHODS

My involvement in the project focused on the **design of a 360-degree experience in Spanish about the Florida Keys Coral Reefs and their environmental, socioeconomic, and cultural impact on the community**. I specifically researched different platforms to optimize streaming of 360-degree footage, developed metadata

standards for 3D content, and implemented the design of the immersive experience with the edition of the video footage through 3D Vista, a program that develops multimedia virtual tours.



EDITED FOOTAGE OF CRF INTERNS WORKING AT A CORAL REEF NURSERY..

### CONCLUSIONS

The project seeks to **design and implement student-created materials** in our Spanish curriculum at UNF to enhance learning objectives and increase student engagement, **to make connections with the community** through partners such as the *Coral Restoration Foundation*, and to collaboratively **create immersive instructional materials** and share resources and common goals with schools from the *Duval County Public System*.

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