## **CONTACT**

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www.jagodinski.com

Github: E-B-Jagodinski LinkedIn: eric-jagodinski

## **CERTIFICATIONS**

# Google Data Analytics Specialization

2022

A professional certificate through Coursera to prepare, process, analyze, and present data for datadriven decision. (SQL, Tableau, R)

## Offshore Engineering Graduate Certificate

2018

A graduate level certificate specialization. Courses: Advanced Hydrodynamics, Offshore Structures, Hydrodynamics of Ship Design

## **SKILLS**

Python	4+ yrs
Linux/Bash	4+ yrs
Machine Learning	3+ yrs
Git	3+ yrs
Fortran	2+ yrs
MATLAB	4+ yrs
Teaching	5+ yrs

## **INTERESTS**

- **Volunteering** Middle School Engineering Camp (2021-2022)
- Advanced and Mixed Gas scuba diving certifications

# **ERIC JAGODINSKI**

Researcher - Data Scientist - Systems Engineer

#### **EDUCATION**

Ph.D. in Ocean Engineering

2017 - Dec. 2022\*

FAU - SeaTech Research Center, Dania Beach, FL

Dissertation: Multi-Agent Reinforcement Learning Based Turbulent Flow Control

Autonomous Multi-Agent Control with *Reinforcement Learning* in turbulent fluids simulations using *Convolutional Neural Networks* and *Long Short-Term Memory* for drag reduction .

M.S. in Ocean Engineering

2018

FAU - SeaTech Research Center, Dania Beach, FL

Masters earned En Passant while completing courses for my Ph.D.

#### B.S. in Ocean Engineering

2010 - 2016

Florida Atlantic University- Boca Raton, FL

**Capstone Project:** Designed and built an *autonomous surface vehicle* capable of GPS navigation and station keeping in dynamic conditions (Electrical Team Lead).

#### **PUBLICATIONS**

Data-driven identification of dynamically important regions in turbulent flows using 3D Convolutional Neural

In Review

Networks

Submitted to Journal of Fluid Mechanics

Autonomously identified critical regions in turbulent flow using **3D CNN** and a designed **interpretation technique**.

#### WORK EXPERIENCE

Course Instructor

Summer 2021

Florida Atlantic University, Boca Raton, FL

Taught *Fluid Mechanics* to a class of 30 students in-person and remote. Developed hands-on project template.

Graduate Intern

Summer 2018

Naval Research Laboratory, Stennis Space Center, MS

Developed simulations using OpenFOAM CFD software for **rogue wave and wind interaction** using High-Performance Computing.

#### **Engineering Technician**

05/2014 -04/2015

Agilis Measurement Systems, Palm Beach Gardens, FL

Assembled *computer monitoring* and *signal conditioning* systems used on GE turbines for NextEra. *Analyzed* real-time turbine data for monthly reports.

#### **CONFERENCES**

- Poster: Turbulent flow Identification using 3D Convolutional Neural Networks. FAU Data-Driven Science and AI Conference (2022).
- Presentation: Data-Driven blowing-suction control in a turbulent channel flow. APS Division of Fluid Dynamics (2021)
- Presentation Convolutional Neural Networks for Identifying Coherent Turbulent Structures. APS Division of Fluid Dynamics (2019)