

CONTACT

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CERTIFICATIONS

Google Data Analytics Specialization

2022
A professional certificate through Coursera to prepare, process, analyze, and present data for data-driven 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 Networks

In Review

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)