

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

C++ 1+ 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)