ERIC JAGODINSKI

Researcher - Data Scientist - Systems Engineer

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)

M.S. Ocean Engineering

2018

Masters En Passant earned while completing courses towards my PhD.

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

EDUCATION

Ph.D. - Ocean Engineering — **2017 - Dec. 2022***

FAU - SeaTech Research Center, Dania Beach, FL

Dissertation: Autonomous Control with ***Reinforcement Learning*** in Fluid Dynamics simulations using ***Convolutional Neural Networks*** and ***Long Short-Term Memory*** for drag reduction .

B.S. - 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 — **Submitted 04/2022**

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

WORK EXPERIENCE

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)

EXTRACURRICULAR

- **Taught** a full course at FAU (Fluid Dynamics, 2021) and TA'd many more.
- **Volunteered** the past two years at a middle school Engineering Camp (2021-2022).