ERIC JAGODINSKI

Research Scientist - 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** 4+ yrs
- **Machine Learning** 3+ yrs
- **Fortran** 2+ yrs
- **Teaching** 5+ yrs
- **R** 1+ yrs

EDUCATION

Ph. D. - Ocean Engineering — 2017 - Dec. 2022*
FAU - SeaTech Research Center, Dania Beach, FL

Dissertation: Deep Reinforcement Learning with Image Recognition for Autonomous Control in Fluid Dynamics Simulation

B.S. - Ocean Systems Engineering — 2010 - 2016
Florida Atlantic University- Boca Raton, FL

Capstone Project: 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
Status: Submitted (April 2022)

WORK EXPERIENCE

Graduate Intern — Summer 2018
Naval Research Laboratory, Stennis Space Center, MS

Used OpenFOAM CFD software for simulating rogue wave and wind interaction. Learned to use Linux, High-Performance Computing (U.S. Army's Excalibur) and Numerical Modeling.

Engineering Technician — 05/2014 -04/2015
Agilis Measurement Systems, Palm Beach Gardens, FL

Assembled computer monitoring and signal conditioning systems used on NextEra turbines. Learned data analysis through real-time monitoring of turbine data.

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

- **Instructor** Fluid Dynamics (2021).
- **Teaching Assistant** Computer Applications, Fluid Dynamics, Materials, Oceanography.
- **Engineering Camp Volunteer** (2021-2022).
- **Put all the points** that are not covered in above sections.