Contact

www.linkedin.com/in/everything4umoana (LinkedIn)

Top Skills

Data Analysis
Deep Learning
Statistics

Certifications

Amazon Web Services Solutions Architect Associate
Deep Learning Specialization

Publications

Favorable connections between seasonal footprinting mechanism and El Niño
Tropospheric biennial oscillation (TBO) indistinguishable from white noise
Understanding the responses of sea surface temperature to the two different types of El Niño in the western North Pacific
Study of the relationship between the East Asian marginal SST and the two different types of El Niño
Prediction of the Spawning Ground of Todarodes pacificus under IPCC Climate A1B Scenario

MOANA (Jinhee) YOON

Data Scientist at TensorIoT Inc.
Tustin, California

Summary

Data Scientist with strong math/statistics background and 10+ years of experience using numerical predictive modeling and data analysis to solve challenging physical climate science problems. Exerted in MATLAB and machine learning algorithms.

Experience

TensorIoT Inc.
Data Scientist
June 2019 - Present (10 months)
Irvine

* Developed forecast models for store/order traffic and for market price change using AWS DeepAR
* Based on output of forecast, built a revenue optimization equation and predict and optimize future revenue.
* Working at an AWS consulting company, involved multiple company's business projects and suggest the best AWS solution for each of project.

University of Hawaii at Manoa
Research Assistant
August 2011 - August 2016 (5 years 1 month)

* Provided a statistical expression to confirm a climate index (TBO) indistinguishable from white noise, and contributed as a co-author to be published in a peer-review journal
* Developed numerical models (MATLAB/Fortran) to simulate ocean dynamics in Pacific, and established the hypothesis explaining an air-sea coupled dynamics and future climate change
* Co-authored the book entitled "Tropical Pacific Oceanography (in Korean)" as writing what are the basic physical dynamics and climate changes in terms of physical oceanography for non-expert readers.

Hanyang University
Assistant Researcher
July 2010 - July 2011 (1 year 1 month)

Korea

* Built on a numerical modeling system in a local server and successfully finished test runs.
* Collaborated with a fishery research group as deploying ocean simulation data sets into a fishery modeling and contributed to publishing one research paper.
* Mentored graduate/undergraduate students how to deploy MATLAB in data analysis in physical climate science

Korea Institute of Ocean Science and Technology
Assistant Researcher
May 2008 - May 2010 (2 years 1 month)
Ansan, Gyeonggi-do, Korea

* Analyzed massive climate time series data using A/B test, PCA, linear regression model, and classification (published two research papers in peer-reviewed journals)
* Developed statistical predictive models based on key climate phenomena to predict summer rainfall in Northeast Asia, and achieved to improve the seasonal forecast skill.

Education

Coursera / Udacity
Deep Learning / Machine Learning / Data Analysis / App Development · (2017 - 2018)

University of Hawaii at Manoa
Doctor of Philosophy - PhD candidate, Atmospheric Sciences and Meteorology; Climate Science; Data Analysis · (2011 - 2017)

Seoul National University
Master's degree, Physical Oceanography, Climate Science · (2006 - 2008)

Seoul National University
Bachelor's degree, Oceanography · (2001 - 2005)