DUONG NGUYEN

02 Rue de la Tour, ⋄ 29200 Brest, France

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EDUCATION

PhD Candidate,   10/2017 - present
Variational Neural Networks for Noisy and Irregularly Sampled Time Series Modeling,
IMT Atlantique

Master of Engineering,   09/2016 - 09/2017
Image Processing, University of Rennes 1 (**summa cumme laude**)

Diplôme d'Ingénieur   09/2015 - 09/2017
Machine Learning, IMT Atlantique

EXPERIENCE

CLS - Collect Localization Satellites (France)   02/2020 - 03/2020
Visiting fellow - Implementation of GeoTrackNet in CLS Maritime Awareness System.

University of Washington (United States)   05/2019 - 06/2019
Visiting graduate research student - Physics informed machine learning

University of Dalhousie (Canada)   09/2018 - 11/2018
Visiting graduate research student - Fish sounds detection using neural networks

CLS - Collect Localization Satellites (France)   03/2017 - 09/2017
Intern - Characterization of AIS performance using satellite imagery

University of Thammasat (Thailand)   06/2015 - 07/2015
Intern - Improving the performance of the "Glistening" detection software using machine learning

PUBLICATIONS

D. Nguyen, R. Vadaine, G. Hajduch, R. Garello, R. Fablet, "**GeoTrackNet**-A Maritime Anomaly Detector using Probabilistic Neural Network Representation of AIS Tracks and A Contrario Detection", 2020.

D. Nguyen, S. Ouala, L. Drumetz and R. Fablet. "Assimilation-based Learning of Chaotic Dynamical Systems from Noisy and Partial Data", in *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2020.

D. Nguyen, K.S. Oliver, F. Frazo, R. Fablet, and S. Matwin. "Recurrent Neural Networks with Stochastic Layers for Acoustic Novelty Detection", in *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, May. 2019.

D. Nguyen, R. Vadaine, G. Hajduch, R. Garello, R. Fablet, "A Multi-task Deep Learning Architecture for Maritime Surveillance Using AIS Data Streams", in *IEEE Data Science and Advanced Analytics (IEEE DSAA)*, Oct. 2018.

(Full list of publications: https://scholar.google.com/citations?user=jLtTFrIAAAAJhl=en)

LANGUAGES & TECHNICAL SKILLS

English	Advanced
French	Advanced
Vietnamese	Mother tongue
Technical skills	Tensorflow, Pytorch

INTERESTS

Reading, Playing badminton, Playing guitar, Traveling