

Xudong SHEN

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Education

National University of Singapore

Singapore

PH.D. STUDENT AT THE GRADUATE SCHOOL FOR INTEGRATIVE SCIENCE AND ENGINEERING

Aug. 2019 - current

- GPA: 4.63/5.0.
- Courses: Theoretical Foundations in Multimedia, Uncertainty Modelling in AI, Neural Networks and Deep Learning II, Theory and Algorithms for Machine Learning, Algorithm at Scale.

Zhejiang University

Hangzhou, China

B.ENG. (WITH HONOR) IN NAVAL ARCHITECTURE AND OCEAN ENGINEERING

Sep. 2015 - Jun. 2019

- GPA: 3.77/4.0.
- Courses: Probability and Mathematic Statistics, ODEs, PDEs, Computational Methods, Physics, {Theoretical, Material, Fluid, Ship, Off-shore Structure, Offshore Platform} Mechanics, {Machine, Ship, Offshore Structure, Offshore Platform} Design, Finite Element Analysis and Application, Electrotechnics and Electronics, Accounting, Game Theory, Microeconomics, etc.

Waseda University

Tokyo, Japan

EXCHANGE STUDENT IN THE DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Sep. 2018 - Feb. 2019

- Global Leadership Program
- Received Master Kong Dream Scholarship
- Courses: Introduction to Logic, Concrete Engineering, Global Asia seminar, Advanced Studies on Global Asia, Global Asia Practicum.

Università di Trento

Trento, Italy

EXCHANGE STUDENT IN THE DEPARTMENT OF CIVIL, ENVIRONMENTAL AND MECHANICAL ENGINEERING

Feb. - Jun. 2017

- ERASMUS+ Student Mobility
- Received ERASMUS+ Student Mobility Grant
- Courses: Design Methods for Industrial Engineering, Scientific Computing (unfinished).

Publication

- [1] Ziwei Xu, **Xudong Shen**, Yongkang Wong, and Mohan S Kankanhalli. "Unsupervised Motion Representation Learning with Capsule Autoencoders". In: *Advances in Neural Information Processing Systems* 34 (2021).
- [2] **Xudong Shen**, Yongkang Wong, and Mohan Kankanhalli. "Fair Representation: Guaranteeing Approximate Multiple Group Fairness for Unknown Tasks". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence* (Upcoming).

Experience

Analysis and Optimization of Hydrodynamically Focused Printing for High-resolution Printed Electronics

Toronto, Canada

SUPERVISED BY PROF. GERD GRAU AT ELECTRONICS ADDITIVE MANUFACTURING LAB, YORK UNIVERSITY, SUPPORTED BY MITACS GLOBALINK

May – Aug. 2018

Cloud Detection in Satellite Remote Sensing using Fully Convolutional Neural Network

Hangzhou, China

SUPERVISED BY PROF. GANG ZHENG AT STATE KEY LABORATORY OF SATELLITE OCEAN ENVIRONMENT DYNAMICS, SECOND INSTITUTE OF OCEANOGRAPHY

Jul. - Sep. 2017 & Nov. 2018 - Jul. 2019

A Study of Japan's History, Regulation, and Specific Measures regarding Persistent Organic Pollutants (POPs)

Tokyo, Japan

SUPERVISED BY PROF. SACHIKO HIRAKAWA AT WASEDA UNIVERSITY, UNDER MASTER KONG DREAM SCHOLARSHIP PROGRAMME

Sep. 2018 - Feb. 2019

Awards & Scholarships

2019	University-wide , NGS scholarship	National University of Singapore
2018	National , GLOBALINK Research Internship Award	Mitacs Canada
2018	National , Master Kong Dream Scholarship	Tingyi Holdings Corp. & Waseda University
2017	University-wide , ERASMUS+ Student Mobility Grant	EU & Università di Trento
2017	Provincial , 3 rd Prize in Physics Innovation Competition	Zhejiang Physical Society
2017	University-wide , Second-class Scholarship for Outstanding Merits	Zhejiang University
2017	University-wide , Second-class Scholarship for Outstanding Students	Zhejiang University
2016	University-wide , Second-class Scholarship for Outstanding Merits	Zhejiang University