

YuHaoWang

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EDUCATION

University of Toronto

Toronto, ON

MEng in Mechanical & Industrial Engineering

Sep 2021 – Now

- Cumulative GPA: 3.67/4.0
- Coursework: Introduction to Machine Learning, Introduction to Deep Learning, Foundations of Data Analytics and Machine Learning, AI Application in Robotics, Intelligent Robots for Society, Digital Image Processing and Applications(on-going), Perception for Robotics(on-going)

Beijing University of Technology

Beijing, China

BEng in Renewable Energy Engineering

Sep 2017 - May 2021

- Cumulative GPA: 3.74/4.0
- Candidate of Study Abroad Talent Program Fully Funded by Beijing Municipal Education Commission

University College Dublin

Dublin, Ireland

- Cumulative GPA: 3.76/4.2

Aug 2018 - May 2020

EXPERIENCE

Research Assistant

Toronto, ON

Intelligent Medical Image Computing Systems Lab (IMICS)

Sep 2022 – Now

- Research and develop a preprocessing module for Brain MRI using image processing technics
- Investigate and develop an optimal preprocessing pipeline for pediatric brain MRI
- Perform classification for determining the type of brain tumours using AI.
- Integrate the pipeline into 3D Slicer, an open-source tool for DICOM images

Classroom Ambassador

Toronto, ON

Learning Space Management

Summer 2022 – Now

- Providing real-time, personalized technical support for instructors
- Provide hands-on direct technical support and orientation to the classroom instructor during class time
- Develop a range of technological and teamwork skills, as well as the opportunity to work closely with U of T instructors to help them enhance the student experience through technology
- Acquire a variety of technological, interpersonal, and job-ready skills

Remote Research Assistant

Dublin, Ireland

Dynamics Analysis Project

Aug 2020 – April 2021

- Investigating a dynamical system from a vibrations perspective and differential equations perspective
- Modelling various systems with different types of nonlinearities and showing the relationship with extreme values
- Familiarized with MATLAB for programming, data input and calculation

EHS Department Intern

Beijing, China

Asia Clean Capital Ltd. (ACC)

June 2020 – Sep 2020

- Assisted in the process of site selection, contractor comparison, theoretical value calculation, operation and maintenance, and subsequent upgrading
- Gained a deeper insight into the application of photovoltaic power generation and its supporting facilities
- Working with EHS Manager, compiled technical documents and company manuals for ISO14001 and 45001 certifications; made relevant forms and documents; audited, revised, and updated the documents as required
- Successfully obtained the ISO Certification issued by DNV

SKILLS

Language: C, Python (NumPy, Pandas, PyTorch, Matplotlib, Scikit-learn, Seaborn), MATLAB

Machine Learning: ANN, CNN, LSTM, GAN, YOLO, kNN, Decision Tree