

LINDA WANG

Graduate Researcher / Software Engineer

@ linda.wang@uwaterloo.ca

☎ 415-519-7739

🔗 lindawangg.github.io

in lindawang95

🌐 lindawangg



INDUSTRY EXPERIENCE

Research Intern

Darwin AI

📅 Jan 2020 – Ongoing

📍 Waterloo, ON

- Experimenting with Transformer and depth estimation models

Software Engineer Intern

Lyft Level 5 - Perception

📅 May 2019 – August 2019

📍 Palo Alto, CA

- Worked on supervised and unsupervised methods of monocular depth estimation for autonomous vehicles
- Implemented the pipeline from data preprocessing to training to evaluation for depth estimation

Software Engineer Intern

Facebook - Computational Photography

📅 May 2017 – August 2017

📍 Seattle, WA

- Developed 3D multi-facial deformations using OpenGL for the Augmented Reality Studio

RESEARCH EXPERIENCE

Graduate Researcher

Vision and Image Processing Lab

📅 Sept 2018 – Ongoing

📍 University of Waterloo

- Developing an AI-driven assistant system to help those with visual impairment by combining different visual perceptions (object detection and depth) to produce a rich scene understanding, while maintaining a balance between speed, accuracy and size
- Conducting research in prostate cancer detection of diffusion weighted imaging using discovery radiomics
- Creating a novel dataset for emotion detection to help children with autism understand and interact with society
- Developing a light-field lens-free nanoscopy microscope

TEACHING EXPERIENCE

MTE140 and BME122: Data Structures and Algorithms

📅 Jan 2020 – Apr 2020, Jan 2019 – Apr 2019

SYDE121: Digital Computation

📅 Sept 2019 – Dec 2019

- Taught a class on algorithmic analysis, big-O notation
- Taught tutorial sessions to review core concepts, such as programming design, and prepared students for exams
- Designed testing to evaluate labs, as well as marked labs and exams

EDUCATION

MASc in AI/Computer Vision

University of Waterloo

📅 Sept 2018 – June 2020 (expected)

Thesis: *Towards Human-Centered AI-Powered Assistants for the Visually Impaired*

BASc in Systems Design Engineering

University of Waterloo

📅 Sept 2013 – June 2018

Graduated with distinction, co-op program

SKILLS

Python

C++

Java

Matlab

SQL

Tensorflow

PyTorch

OpenCV

Git

PUBLICATIONS

👥 Conferences

- Wang, Linda, Chris Dulhanty, et al. (2019). "Zone-DR: Discovery Radiomics via Zone-level Deep Radiomic Sequencer Discovery for Zone-based Prostate Cancer Grading using Diffusion Weighted Imaging". In: *Conference on Neural Information Processing Systems (NeurIPS) Workshops*.
- Wang, Linda and Alexander Wong (2019a). "Enabling Computer Vision Driven Assistive Devices for the Visually Impaired via Micro-architecture Design Exploration". In: *Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*.
- – (2019b). "Implications of Computer Vision Driven Assistive Technologies Towards Individuals with Visual Impairment". In: *Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*.

📄 Journal

- Dulhanty, Chris and Linda Wang et al. (2020). "Radiomics Driven Diffusion Weighted Imaging Sensing Strategies for Zone-Level Prostate Cancer Sensing". In: *Sensors* 20.5, p. 1539.