LINDA WANG

Software Engineer – AI/Computer Vision

@ linda.wang513@gmail.com 415-519-7739 lindawangg.github.io in lindawang95 lindawangg

INDUSTRY EXPERIENCE

Software Engineer

Lyft Level 5 - Perception

July 2020 – Ongoing Palo Alto, CA

- Developing deep learning computer vision models for self driving

Research Intern

Darwin AI

Jan 2020 – July 2020 Waterloo, ON

- Developed neural networks (COVID-Net) for COVID-19 detection
- Designed an efficient neural network for monocular depth estimation

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

TEACHING EXPERIENCE

MTE140 and BME122: Data Structures and Algorithms

Jan 2020 – Apr 2020, Jan 2019 – Apr 2019

SYDE121: Digital Computation

Sept 2019 – Dec 2019

EDUCATION

MASc in AI/Computer Vision

University of Waterloo

Sept 2018 – June 2020

Advisor: Alexander Wong
Finalist for the Alumni Gold Medal

BASc in Systems Design Engineering

University of Waterloo

Sept 2013 – June 2018

Graduated with distinction, co-op program

SKILLS

Python | C++ | PyTorch | Tensorflow

PUBLICATIONS

Conferences

- Wang, Linda, Mahmoud Famouri, and Alexander Wong (2020). "DepthNet Nano: A Highly Compact Self-Normalizing Neural Network for Monocular Depth Estimation". In: *Conference on Computer Vision and Pattern Recognition (CVPR) 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

- Wang, Linda, Chris Dulhanty, et al. (2020). "Radiomics Driven Diffusion Weighted Imaging Sensing Strategies for Zone-Level Prostate Cancer Sensing". In: *Sensors* 20.5, p. 1539.
- Wang, Linda, Zhong Qiu Lin, and Alexander Wong (2020). "COVID-Net: A Tailored Deep Convolutional Neural Network Design for Detection of COVID-19 Cases from Chest X-Ray Images". In: *Nature Scientific Reports*.