

Yiping Wang

yiping.wang@uwaterloo.ca | <https://yipingwang.ca> | github.com/yiping-wang | 🇨🇦 Permanent Resident

EDUCATION

University of Waterloo

Master of Mathematics in Computer Science (91%)

University of Victoria

Honours Bachelor of Science in Computer Science (91.68%)

Waterloo, Ontario, Canada

Sept. 2021 – Expected Aug. 2023

Victoria, British Columbia, Canada

Sept. 2017 – Apr. 2021

MACHINE LEARNING EXPERIENCE

University of Zürich

Research Intern

- Automatic radiology report generation from chest X-ray images.

Google

Research Intern

- Vision Transformer for image classification and object detection.

University of Waterloo

Research Assistant

- Weakly-supervised semantic segmentation for biomedical images.

University of Victoria

Research Assistant

- Automatic training environments generation to improve generalization of Reinforcement Learning algorithms.

Imagia Canexia Health

Research Intern

- Generative models for lung 3D CT-scans and disentangled adversarial inference.

University of British Columbia

Research Intern

- Patch-level and WSI-level classification for ovarian carcinoma whole-slide pathology images.

University of Victoria

Research Intern

- Patch-level tumour segmentation for the liver carcinoma whole-slide pathology images.

Zürich, Switzerland

Expected Nov. 2022 – Jan. 2023

Kitchener, Ontario, Canada

Expected May 2022 – Oct. 2022

Waterloo, Ontario, Canada

Sept. 2021 – Present

Victoria, British Columbia, Canada

Sept. 2020 – Apr. 2021

Montréal, Québec, Canada

May 2020 – Dec. 2020

Vancouver, British Columbia, Canada

Sept. 2019 – Apr. 2020

Victoria, British Columbia, Canada

May 2019 – Aug. 2019

PUBLICATIONS

Multi-agent Summative Assessment Improvement for Unsupervised Environment Design, ICML 2021 Workshop

Conditional Generation of Medical Images via Disentangled Adversarial Inference, Medical Image Analysis

CT-SGAN: Computed Tomography Synthesis GAN, MICCAI 2021 Workshop

Classification of Ovarian Carcinoma Whole-Slide Pathology Images Using Deep Transfer Learning, MIDL 2020

Synthesis of diagnostic quality cancer pathology images, Journal of Pathology

SOFTWARE DEVELOPMENT EXPERIENCE

Global Reach Group

Software Developer Intern

- Data engineering with ETL and created CI/CD pipelines for Gradle and .NET Core projects.

Global Reach Canada

Software Developer Intern

- Development of a foreign exchange trading and payment system using Angular and C# ASP.NET Core.

Kinsol

Software Developer Intern

- Development of responsive chatbot applications using Python Flask, JavaScript, jQuery, Bootstrap and Rasa.

Victoria, British Columbia, Canada

May 2021 – Aug. 2021

Victoria, British Columbia, Canada

Sept. 2018 – Dec. 2018

Victoria, British Columbia, Canada

May 2018 – Aug. 2018

AWARDS & SCHOLARSHIPS

Vector Scholarship in Artificial Intelligence 2021-2022, Vector Institute

W.E. Cowie Innovation Award 2021, Estate of Alexandra Cowie

ThinkSwiss Research Scholarship 2022, Embassy of Switzerland

Jamie Cassels Undergraduate Research Award 2020-2021, University of Victoria

TECHNICAL SKILLS

Languages: Python, Java, C, C++, C#, SQL, Scala, TypeScript

Libraries: PyTorch, TensorFlow, NumPy, Scikit, Angular, Unity, .NET Core, Gradle, OpenCV, OpenGL

Tools: Git, Docker, AWS, Linux, Jenkins, LaTeX