

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 (GPA 3.95/4.00)

University of Victoria

Honours Bachelor of Science in Computer Science (GPA 3.94/4.00)

Waterloo, Ontario, Canada

Sept. 2021 – Expected Aug. 2023

Victoria, British Columbia, Canada

Sept. 2017 – Apr. 2021

MACHINE LEARNING EXPERIENCE

University of Zürich

Research Intern, Supervisor: Prof. Michael Krauthammer

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

Google

Research Intern, Supervisor: Dr. Soroosh Yazdani

- Vision Transformer for image classification and object detection.

University of Waterloo

Research Assistant, Supervisor: Prof. Yuri Boykov

- Weakly-supervised semantic segmentation for biomedical images.

University of Victoria

Research Assistant, Supervisor: Prof. Brandon Haworth

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

imagia

Research Intern, Supervisor: Dr. Mohammad Havaei

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

University of British Columbia

Research Intern, Supervisor: Prof. Ali Bashashati

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

University of Victoria

Research Intern, Supervisor: Prof. Kwang Moo Yi

- 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 – Aug. 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 by Angular and C# ASP.NET Core.

Kinsol

Software Developer Intern

- Development of responsive chatbot applications by 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

Mathematics International Master's Award of Excellence 2021-2022, University of Waterloo

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

TECHNICAL SKILLS

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

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

Tools: Git, Docker, AWS, Linux, Jenkins, L^AT_EX